U2 Burner Setup & Tuning

New ABT Burners & BPI Overfire Air

Following U2 outage & installation April 2004

STARTUP & PERFORMANCE TESTING- U2 SCHEDULE Rev 03/17/04
(schedule for Engineering Services related items, other testing maybe taking place)

DRAFT

Testing is required following the Unit 2 Major Outage where the following major modifications were made: installation of new ABT Burners & new ABB scanners, installation of new BPI Overfire Air system, Boiler superheat platen extension, changeout of the Bently Nevada vibration system & TGIS turbine rotor, shell & differential expansions instrumentation, ID Fan D drive replacement (ABB), and pulverizer primary air flow & Overfire Air Flow measurement (Air Flow Monitor- CAMS)

NOTES: Following the U2 Outage, Unit 2 has 950 MW gross capability (approved new unit rating).
U2 Overfire Air System can't be operated or fully tested until the UDAQ Operating Permit is received.
Need availability of all 8 pulverizers for 8 weeks to complete all burner, OFA and UDAQ environmental required testing.

Quick Summary of the required Startup and Performance Testing:

Initial Burner Adjustments and Flame Scanner Tuning (1st lighter and coal fires)

BFPT 1A overspeed trip tests (on startup)

Turbine- Generator Vibration Analysis (during rollup)

Minimum Load Demonstration (Load hold at 300 MWg, 350 MWg, 400 MWg)

Generator- Flux Probe Testing

Burner Turndowns (BIDS- 500 MW)- Burner Adjustments and Flame Scanner Tuning

ID Fan D- replacement drive testing

Boiler Safety Valve Hydrosets- Warberten

U2 HP Turbine Enthaply Drop Tests w/ Alstom

Pulverizer Primary Air and Overfire Air Flow Calibration Testing

U2 MINI-OUTAGE to remove CV & BFPT fine mesh screens (installed due to boiler platen tube welding)
possible installation of Generator Balance Weights (de-gas)

Coal Line Burner Balancing- Dirty Air Flow Tests (all 8 pulverizers)

Boiler Backpass Grid- Fine tune Burner Adjustments (targets CO < 100 ppm)

Boiler Backpass Grid- Fine tune OFA and Burner Adjustments (targets CO < 180 ppm)

UDAQ Environmental Required Demonstration Testing (also Burner & OFA Acceptance Testing)

Secondary & Primary Air Heater Performance Testing

DETAILED SCHEDULE- U2 UNIT STARTUP, Sat 3/27/04

Initial Burner Adjustments and Flame Scanner Tuning (1st lighter and coal fires)

1st Oil Fires- NEW SCANNER tuning and adjustments. Need to cycle thru all 8 rows of lighters for tuning
notify- Jerry Finlinson, ABB rep, I&C Techs

1st Coal Fires (start- 1st row B or G)- requires BURNER ADJUSTMENTS for flame shape & stability
Need to cycle thru all 8 pulverizers for initial burner adjustments and scanner tuning
notify- Aaron Nissen, Garry Christensen, ABT rep- Terkle Larson & Jerry Finlinson, ABB rep, I&C Techs

BFPT 1A overspeed trip tests (on startup)
2- 3 hours BFPT warmup and then tests
(note- BFPT is uncoupled and needs to be re-coupled after testing)
Conducted by Bill Morgan & Ken Neilson

Turbine- Generator Vibration Analysis (during rollup)
Turbine & Generator Vibration Data Collection during Rollup (primary concern is Generator rotor)
Testing conducted by Aaron Nissen and Craig Jones

Minimum Load Demonstration

Load holds at 300 MWg, 350 MWg, 400 MWg to determine Baghouse Inlet Temps
(compared with SAH Outlet Temps)
By Aaron Nissen

Generator- Flux Probe Testing

Requires ramp rates from 50 MWg to 500 MWg
By Jon Christensen and GE rep

UNIT 2 ON-LINE, Mon 3/29/04, 500 Mwg,

Burner Turndowns (BIDS- 500 MW)- Burner Adjustments and Flame Scanner Tuning

Needed to verify flame position and scanner sighting due to new burners, changes in secondary air damper positions and windbox duct pressure required for the overfire air system setup
Testing needs to be with 4 pulverizers in-service staggered front and rear wall (to enable sighting of flames). Each pulverizer needs to be ramped from minimum to maximum feeder speed
(with NO Overfire Air).
Testing by Aaron Nissen, Garry Christensen, ABT Rep, Jerry Finlinson, ABB Rep, and I&C

ID Fan D- replacement drive testing

Need ability to place fan in manual and ramp up & down, plus take fan out of service
2 days with fan in & out and ramping fan up & down, with 3rd day run fan at max rpm
Testing conducted by Jon Christensen and Alstom Rep

Boiler Safety Valve- Hydro Sets (2 days)
After 48 hour heat soak, may require load reduction, request Main Steam Valve pressure at 2150 psi for Main Steam hydro-sets and request Drum Safeties set 2350 psi steady pressure

Testing coordinated by Ron Taylor, testing conducted by Warburten

Pulverizer Primary Air and Overfire Air Flow Calibration Testing
Required due to replacement of the pulverizer primary air flow elements and new system installation. Testing consists of feichheimer probe flow traverses to characterize new pitot tubes.

Prim Air Flow (CAMS) -Testing has to be done with each pulverizer on-line and able to ramp from 50% feeder speed to 75% and 90% (backoff pulv if it starts loading up).
Testing coordinated by Jerry Finlinson, testing conducted by Air Monitoring Systems

Overfire Air Dampers and CAMS- Testing of dampers (inlet dampers, 1/3 and 2/3 dampers) will be done with north and then south side dampers. Flow traverse calibration points will be at 1/3 dampers open, 2/3 dampers open and both 1/3 & 2/3 dampers open.
Testing coordinated by Jerry Finlinson, testing conducted by Air Monitoring Systems

U2 Turbine Enthaply Drop Tests w/ Alstom
Conduct followup performance tests on HP following the U2 Outage

Testing @ 950 MWgross, slide pressure to get Valves Wide Open
conducted by Dave Spence and Alstom Power- Jason Saunders will be conducting tests with their instrumentation

U2 MINI-OUTAGE, Friday nite, 4/2/04

to remove HP Stop Valve and BFPT- fine mesh screens (installed due to boiler platen tube welding)
possible installation of Generator Balance Weights (de-gas)
Coordination by Aaron Nissen, installation by Maintenance

Coal Line Burner Balancing- Dirty Air Flow Tests (all 8 pulverizers)
Each pulverizer tested individually (but need availability of all 8 pulverizers), tests conducted at 80% feeder speed

Tests conducted by Garry Christensen and Rob Jeffery

Boiler Backpass Grid- Fine tune Burner Adjustments (targets CO < 100 ppm)
Start out with all 8 pulverizers in- service and fine tune burners based on the Economizer Outlet Test Grid and then systematically rotate each pulverizer out of service and continue balancing

Testing by Aaron Nissen, Garry Christensen & Rob Jeffery, with test equipment from Power Generations Technologies (PGT)

Boiler Backpass Grid- Fine tune OFA and Burner Adjustments (targets CO < 180 ppm)
Need Operating Permit to place Overfire Air System In-service and fine tune burners with reduced secondary air flow
Start out with all 8 pulverizers in- service and fine tune burners based on the Economizer Outlet Test Grid

and then systematically rotate each pulverizer out of service and continue balancing

Testing by Aaron Nissen, Garry Christensen & Rob Jeffery, with test equipment from Power Generations Technologies (PGT)

UDAQ Environmental Required Demonstration Testing (also Burner & OFA Acceptance Testing)

Day 1- 950 MWg , Pulv ? o/s, OFA 5%, O2 levels: 2.0%, 2.5%, 3.0%
Day 2- 950 MWg , Pulv ? o/s, OFA 10%, O2 levels: 2.5%, 3.0%
OFA 15%, O2 levels: 2.5%, 3.0%
Day 3- 950 MWg , Pulv ? o/s, OFA 10%, O2 levels: 2.5%, 3.0%
2/3 damper open OFA 15%, O2 levels: 2.5%, 3.0%
Day 4- 950 MWg , Pulv ? o/s, OFA 10%, O2 levels: 2.5%, 3.0%
OFA 15%, O2 levels: 2.5%, 3.0%
900 MWg , Pulv ? o/s, OFA 10%, O2 levels: 2.5%, 3.0%, 3.5%
OFA 15%, O2 levels: 2.5%, 3.0%, 3.5%
Day 5- to be determined, including makeup tests

Phase 2- **Burner Acceptance Testing**
Day 1- Pulv ? o/s, OFA and O2 levels to be determined
Day 2- Pulv ? o/s, OFA and O2 levels to be determined
Day 3- Pulv ? o/s, OFA and O2 levels to be determined

Secondary & Primary Air Heater Performance Testing

Full Load Tests and test results based on the Flue Gas Test Grids

Testing by Aaron Nissen, Garry Christensen & Rob Jeffery, with test equipment from (PGT)

U2 Boiler Feedpump A Tests

Testing conducted Dave Spence, support from Flow Serve?

Circulating Water Pumps Accept Tests U2

Testing will use calibrated pitot tube to measure total water flow going to all three cooling towers (1A, 1B and Helper)

Testing coordinated by Dave Spence & Flow Serve? (suppling pump impellers)

Helper Cooling Tower Performance Tests U1&U2

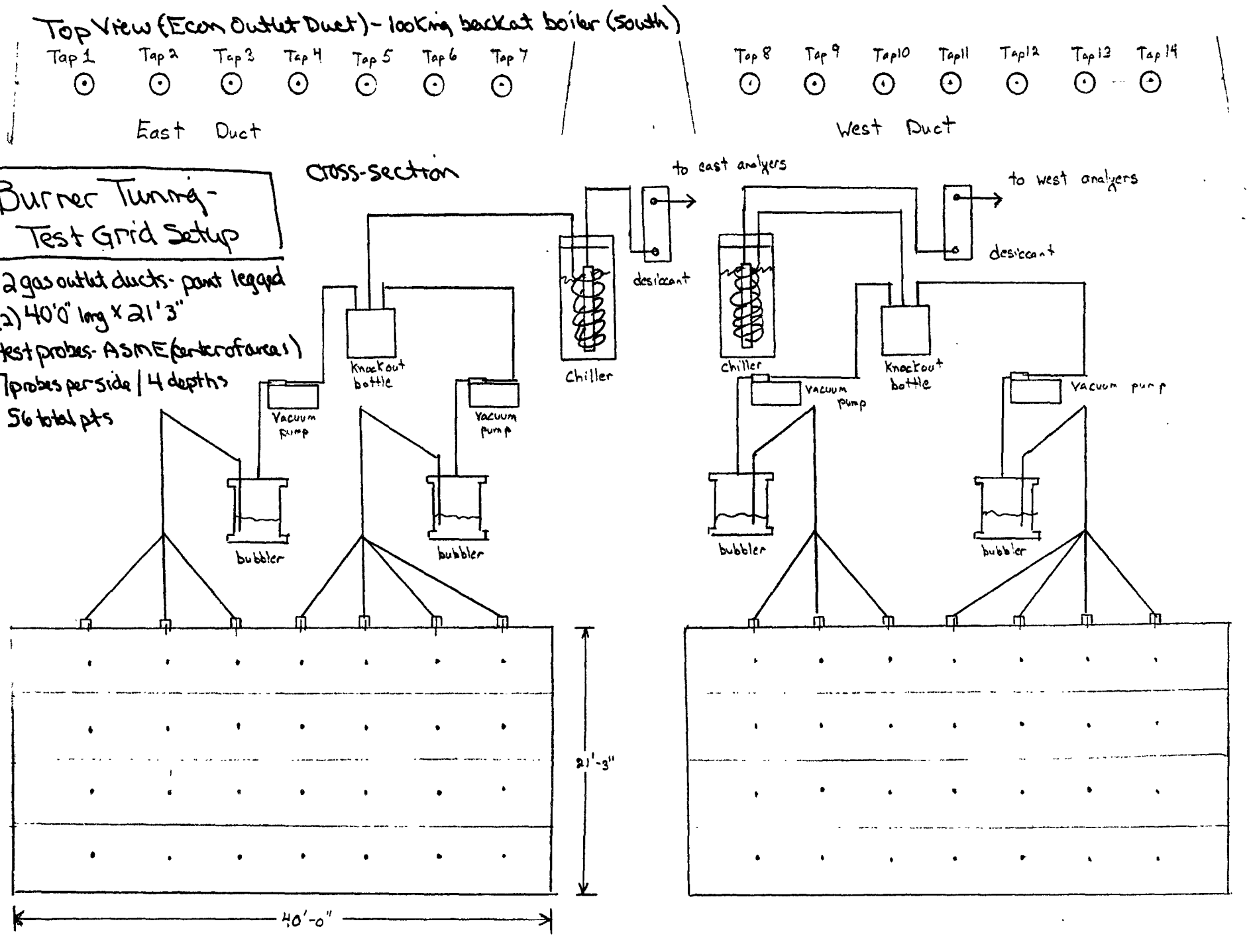
Testing coordinated by Aaron Nissen, testing conducted by ?? (yet to be bid)

Annual Coal Pile Inventory Survey (5 days)

-Testing coordinated by Dave Spence, testing conducted by Bowers & Assoc (density study), Aera Graphics (aerial survey), MCM Engineering (ground survey), IPSC Fuels Lab (coal analysis)

Burner Tuning - Test Grid Setup

2 gas outlet ducts - point legged
(2) 40'0" long x 21'3"
test probes - ASME (center of areas)
7 probes per side | 4 depths
56 total pts



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16 to 20

SAH 1B (48) — 16 x 3 — O_2, CO_2

SAH 1A (48) — 16 x 3 — O_2, CO_2

PAH 2B (9) 3x3 — O_2, CO_2

O_2, CO_2 — 3x3 (9) PAH 2A

12 bubblers

7 x 4 — Econ West (28)

7 x 4 — Econ East (28)

East O_2
West O_2
East CO
West CO
East CO_2
West CO_2

3.0	88.21	3.2	88.14	3.5	88.03
2.5	88.35	2.0	88.45		

12, 3

Stack CO
O_2 ?

O_2 6 maybe 7
CO 3
CO_2 6

Bubblers 4 more

1 or 2 data arguisitions

new bubblers 2 - 36 pt
2 - 26 pt

6

IP7_032757

U2 Burner Setup & Tuning (new ABT burners & BPI overfire air) following U2 Outage & Installation 04-0418

PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
Test Conditions:				at turndown burner settings	burner settings 8" OR, 3" spin, 3rd hole inner	burner settings 10" OR, 3" spin, 3rd hole inner	burner settings 10" OR, 3" spin, 3rd hole inner	burner settings 12" OR, 3" spin, 3rd hole inner	burner settings 9" OR, 3" spin, 3rd hole inner	burner settings 9" OR, 3" spin, 5th hole inner	burner settings 9" OR, 3" spin, 7th hole inner
GROSS CAPACITY Load, net	COAXI027A	MW		902.45	902.49	902.26	903.95	904.23	903.91	904.24	903.87
Pulv Status				All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s
BOILER											
BOILER EFF (HL Method)	2SGAPX3550	%		89.53	89.39	89.41	89.59	89.49	89.43	89.41	89.41
BOILER EFF (Input-Output Method)	2SGAPX3561	%		92.99	93.78	92.86	92.53	91.85	92.92	93.79	93.18
BLOWDOWN FLOW	2SGAPE116F	KPPH		46.40	46.54	46.65	0.01	0.00	0.00	0.00	0.00
SH SPRAY FLOW	2COAXI022A	KPPH		253.83	327.36	291.51	369.34	287.73	331.82	394.36	340.68
PMAX SH SPRAY FLOW	2SGAPX3033	KPPH		305.56	359.39	317.08	391.75	311.73	357.42	424.09	368.69
RH SPRAY FLOW	2COAXI108A	KPPH		0.05	0.06	0.02	0.09	0.01	0.01	0.00	0.00
PMAX RH SPRAY FLOW	2SGAPX3918	KPPH		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL AIR FLOW	2COAXI078S	%		78.7	78.3	78.3	80.0	81.6	81.2	81.4	81.1
EXCESS AIR (CALC'D)	2SGBPX3512	%	15.4%	15.39	13.96	13.26	14.22	14.81	15.32	15.78	16.29
TOTAL FUEL FLOW	2COAXI001A	TPH		352.7	352.4	352.7	354.1	354.6	353.0	354.3	352.6
PMAX BACKCALC COAL FLOW	2SGAPX3504	TPH		347.2	347.6	346.8	345.5	347.3	347.8	349.7	348.1
REHEAT DAMPER POS	2COAXI136A	%		78.9	70.7	70.7	32.1	32.1	32.1	32.1	32.1
SUPERHEAT DAMPER POS	2COAXI135A	%		94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
BOILER DUTY (HEAT INPUT)	CALC	MBTU/HR		8102	8095	8102	8135	8144	8109	8139	8098
COAL..AS-FIRED											
HHVC	9CHEKT0001	BTU/LB		11,485	11,485	11,485	11,485	11,485	11,485	11,485	11,485
% TOTAL MOISTURE	9CHEKT0005	%		9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
% ASH	9CHEKT0006	%		9.24	9.24	9.24	9.24	9.24	9.24	9.24	9.24
% SULFUR	9CHEKT0007	%		0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
% CARBON	9CHEKT0009	%		64.32	64.32	64.32	64.32	64.32	64.32	64.32	64.32
% HYDROGEN	9CHEKT0010	%		4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58
% NITROGEN	9CHEKT0011	%		1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
% OXYGEN	9CHEKT0012	%		10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70
ASH											

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PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
FLY ASH LOI TOTAL	MANUAL	%									
FLY ASH LOI EAST	MANUAL	%									
FLY ASH LOI WEST	MANUAL	%									
BOILER CONDITIONS	Pulv O/s	manual		All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s
EAST FLUE GAS O2	2COAXI079A	%		3.0	3.3	3.1	3.6	3.9	3.6	3.7	3.6
EAST FLUE GAS O2 (GRID)	MANUAL	%		2.7	4.0	4.0	4.0	4.3	4.3	4.4	4.1
EAST FLUE GAS CO (GRID)	MANUAL	ppm		163.1	56.3	37.5	65.2	49.6	47.7	39.1	61.3
EAST FLUE GAS CO2 (GRID)	MANUAL	%		15 9	14.6	13.0	18.3	18.2	18.0	17.1	18.7
WEST FLUE GAS O2	2COAXI080A	%		3.1	2.1	2.0	1.8	2.1	2.3	2.3	2.6
WEST FLUE GAS O2 (GRID)	MANUAL	%		5 0	3.6	3.7	3.5	3 6	3.7	3.8	4.1
WEST FLUE GAS CO (GRID)	MANUAL	ppm		37.9	283.0	268 2	644.3	401 6	267.9	279.8	76.7
WEST FLUE GAS CO2 (GRID)	MANUAL	%		13.4	14.4	14.5	14.5	14.5	14.5	14.4	14.1
SCRUB INLET SO2	2SAAKK0002	PPM		333.6	354.1	356.8	364.5	356.1	356.9	356.9	356.3
STACK NOX	2SAAKK0006	PPM		180.8	181.2	183.7	185.9	196.6	189.8	190.7	195.4
STACK NOX CONVERTED	2SAAKK0007	PPM		0.32	0.32	0.32	0.33	0.35	0.34	0.34	0.34
STACK CO	MANUAL	ppm									
STACK O2	MANUAL	%									
O2 TRIM SETPOINT	2COAXI220A	%		57.98	57.08	57.08	60.22	63.08	63.08	63.08	63.08
CEM STACK VOL FLOW	2SAAKK0016	MSCFH		132.49	131.24	132.55	132.72	142.17	140.74	142.11	141.03
PMAX CALC STACK VOL FLOW	2SGAPX3903	MSCFH		131.30	129.03	128.71	129.91	132.19	131.20	131.82	131.92
PMAX BLR GAS FLOW	2SGAPX3520	LB/HR		7,704,832	7,558,842	7,520,311	7,598,407	7,716,226	7,674,113	7,720,511	7,710,952
PMAX BLR AIR FLOW RATE	2SGAPX3522	LB/HR		7,064,720	6,918,736	6,880,607	6,955,941	7,072,938	7,033,506	7,077,700	7,071,445
SCRUB INLET NOX	2SAAKK0010	PPM		201.61	199.35	200.80	208.67	218.48	210.66	210.72	215.86
SCRUB INLET SO2	2SAAKK0003	#/mbtu		0.76	0.81	0.81	0.83	0.83	0.83	0.83	0.82
U1 SCRUB INLET SO2	1SAAKK0002	PPM		389.31	392.80	392.87	380.04	374 37	382.25	382.61	383.46
U1 SCRUB INLET SO2	1SAAKK0003	#/mbtu		0.81	0.82	0.82	0.82	0.81	0.83	0.83	0.83
Scrub In CO2	2SAAKK0012	%		13.14	13.09	13.09	13.05	12.83	12.90	12.89	12.90
Stack CO2	2SAAKK0015	%		12.28	12.32	12.31	12.26	12.09	12.13	12.08	12.13
SA FLOW EAST %	2COAXI076R	%		71.63	71.17	71.08	72.92	74.11	74.15	74.32	73.69
SA FLOW West %	2COAXI077R	%		71.65	70.81	71.29	72.53	73.80	73.95	73.92	73.76
TOTAL AIR %	2COAXI078S	%		78.75	78.27	78.30	80.02	81.61	81.22	81.43	81.07
E WINDBOX PRESS	2SGAPT0176	psig		6.01	4.16	3.85	4.10	4.12	4.49	4.19	3.95
A WINDBOX PRESS	2SGAPT0175	psig		5.38	3.85	3.51	3.74	3.73	4.11	3.82	3.60
F WINDBOX PRESS	2SGAPT0174	psig		5.97	3.99	3.66	3.90	3.93	4.30	4.00	3.78
B WINDBOX PRESS	2SGAPT0173	psig		5.48	3.49	3.15	3.37	3.37	3.77	3.47	3.25
D WINDBOX PRESS	2SGAPT0180	psig		5.59	3.88	3.54	3.77	3.81	4.18	3.90	3.69
H WINDBOX PRESS	2SGAPT0179	psig		5.41	3.73	3.40	3.63	3.65	4.02	3.73	3.52
C WINDBOX PRESS	2SGAPT0178	psig		5.14	4.17	3.85	4.10	4.14	4.52	4.20	3.99

IP7_032759

PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
G WINDBOX PRESS	2SGAPT0177	psig		4.96	3.77	3.43	3.67	3.69	4.09	3.76	3.58
SA Duct East PRESS	2SGBPT0256	psig		4.16	3.35	3.19	3.35	3.40	3.59	3.48	3.41
SA Duct West PRESS	2SGBPT0257	psig		4.30	3.43	3.38	3.50	3.62	3.71	3.68	3.57
Coal Bias Pulv A	2COAXI221A	%		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv B	2COAXI222A	%		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv C	2COAXI223A	%		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv D	2COAXI224A	%		0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv E	2COAXI225A	%		-0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv F	2COAXI226A	%		-0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv G	2COAXI227A	%		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv H	2COAXI228A	%		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv A	2COAXI211A	%		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv B	2COAXI212A	%		1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv C	2COAXI213A	%		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv D	2COAXI214A	%		0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv E	2COAXI215A	%		1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv F	2COAXI216A	%		1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv G	2COAXI217A	%		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv H	2COAXI218A	%		1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SA Damper Pos Pulv A	2COAKS007A	%		59.55	57.44	57.41	57.58	57.59	57.34	57.70	57.14
SA Damper Pos Pulv B	2COAKS003A	%		59.54	57.31	57.43	57.54	57.66	57.30	57.54	57.06
SA Damper Pos Pulv C	2COAKS005A	%		58.45	61.85	61.95	61 90	61.95	61.77	62.21	61.55
SA Damper Pos Pulv D	2COAKS009A	%		64.38	61.23	61.40	61.55	61.51	61.43	61.66	61.16
SA Damper Pos Pulv E	2COAKS010A	%		63.42	61.79	61.82	61.97	61.98	61.77	61.96	61.56
SA Damper Pos Pulv F	2COAKS006A	%		62.88	61.66	61.82	61.83	61.90	61.65	62.02	61.46
SA Damper Pos Pulv G	2COAKS004A	%		59.66	57.48	57.58	57.68	57.75	57.49	57.71	57.18
SA Damper Pos Pulv H	2COAKS008A	%		59.47	57.30	57.30	57.47	57.49	57.25	57.53	57.05
BOILER HEAT DUTY											
BLR HEAT DUTY	2SGAPX3563	MBTU/HR		7486.87	7540.91	7475.24	7478.73	7432.75	7487.12	7584.37	7495.99
WATER WALLS HEAT DUTY	2SGAPX3690	MBTU/HR		3057.19	3012.24	3045.21	2952.97	3044.75	2998.64	3001.16	3015.97
SSH PLATENS HEAT DUTY	2SGAPX3691	MBTU/HR		586.89	584.04	586.52	601.95	587.53	584.75	590.07	565.78
SSH INT SECTION HEAT DUTY	2SGAPX3692	MBTU/HR		812.41	820.35	832.46	789.27	831.57	826.26	856.41	796.87
SSH OUTLET SECTION HEAT DUTY	2SGAPX3693	MBTU/HR		375.47	396.98	394.73	355.12	359.23	384.37	407.08	395.28
RH OUTLET SECTION HEAT DUTY	2SGAPX3694	MBTU/HR		508.75	516.54	512.08	562.30	544.52	607.56	592.99	592.98
PSH SECTION HEAT DUTY	2SGAPX3695	MBTU/HR		787.82	789.53	750.38	861.68	793.34	803.41	804.09	842.71
ECON SECTION HEAT DUTY	2SGAPX3696	MBTU/HR		251.39	250.68	243.44	274.42	265.61	262.88	253.15	250.32
PRI RH SECTION HEAT DUTY	2SGAPX3697	MBTU/HR		593.05	603.02	588.11	535.56	527.61	496.91	493.40	504.18
TEMPS AIR/GAS											

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PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
AIR TEMP ENT SAH 1A	2COAXI124A	DEGF		55.6	61.2	60.3	46.6	51.8	55.8	58.4	60.3
AIR TEMP ENT SAH 1B	2COAXI125A	DEGF		54.8	60.5	61.2	47.1	52.1	56.5	59.1	61.0
AIR TEMP LVG SAH 1A	2COAXI149A	DEGF		691.9	699.9	699.3	703.7	699.1	698.0	693.8	690.1
AIR TEMP LVG SAH 1B	2COAXI150A	DEGF		692.7	702.4	700.2	702.3	697.6	696.6	692.5	689.4
FLAME GAS TEMP	2SGAPX3571	DEGF		3,645.3	3,696.4	3,695.9	3,671.9	3,637.5	3,656.6	3,647.1	3,638.6
SSH PLATENS GAS OUT TEMP	2SGAPX3582	DEGF		2,211.5	2,262.9	2,240.5	2,260.6	2,211.0	2,243.5	2,239.4	2,231.1
SSH INT GAS IN TEMP	2SGAPX3591	DEGF		2,211.5	2,262.9	2,240.5	2,260.6	2,211.0	2,243.5	2,239.4	2,231.1
SSH INT GAS OUT TEMP	2SGAPX3592	DEGF		1,873.1	1,915.5	1,886.3	1,928.2	1,865.1	1,898.1	1,884.0	1,900.0
SSH OUTLET BANK GAS OUT T	2SGAPX3602	DEGF		1,714.5	1,745.1	1,715.0	1,776.8	1,713.7	1,735.2	1,712.0	1,733.2
RH OUTLET BANK GAS OUT TEMP	2SGAPX3612	DEGF		1,496.5	1,520.0	1,491.2	1,534.1	1,480.7	1,473.9	1,458.0	1,479.0
PRI RH BANKS GAS IN TEMP	2SGAPX3641	DEGF		1,492.2	1,523.0	1,500.9	1,540.7	1,485.0	1,479.8	1,454.3	1,470.8
RH SECTION GAS OUT TEMP	2SGATE1631	DEGF		762.2	766.7	764.5	756.6	752.5	751.9	743.8	739.9
TARGET RH EXIT GAS TEMP	2SGAPX3679	DEGF		758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7
PSH OUTLET GAS TEMP	2SGAPX3622	DEGF		942.2	955.6	949.4	971.1	958.9	952.9	936.3	932.4
PSH / ECON EXIT GAS TEMP	2SGATE1625	DEGF		756.3	768.2	765.2	782.5	775.2	774.1	763.5	762.2
TARGET ECON EXIT GAS TEMP	2SGAPX3688	DEGF		759.1	759.7	759.3	759.9	759.9	759.9	759.9	759.9
AVE ECON EXIT GAS TEMP	2SGAPX3015	DEGF		724.9	732.6	729.3	738.7	733.3	732.6	725.8	724.3
TARGET EXIT GAS TEMP	2INAPX3086	DEGF		757.2	757.2	757.2	757.3	757.3	757.3	757.4	757.4
TEMPS STM/WTR											
ECON INLET WATER TEMP	2COAXI025A	DEGF		545.5	545.6	545.8	545.9	546.1	545.9	546.6	546.2
	2FWATE0990	DEGF		545.3	545.3	545.5	545.6	545.9	545.6	546.3	546.0
TSAT AT DRUM PRESSURE	2SGAPX3261	DEGF		668.2	668.2	667.9	668.3	668.7	668.5	668.8	668.6
1ST STAGE SH ATTEMP INLET T	2SGATE0863	DEGF		727.0	730.3	723.0	737.8	726.8	731.0	730.8	736.7
	2SGATE0864	DEGF		729.0	729.4	725.8	743.5	731.1	733.0	733.7	737.6
1ST STAGE SH ATTEMP OUTLET T	2COAXI098A	DEGF		710.8	711.7	706.8	714.8	706.3	708.9	708.5	713.3
	2COAXI099A	DEGF		710.6	714.7	711.7	722.0	712.2	713.1	713.8	716.9
2ND STAGE SH ATTEMP INLET T	2SGATE0871	DEGF		788.3	787.3	777.1	792.1	774.1	782.5	781.0	786.0
	2SGATE0872	DEGF		785.0	797.8	792.8	817.6	794.5	795.1	798.9	797.6
2ND STAGE SH ATTEMP OUTLET T	2COAXI093A	DEGF		770.5	758.3	755.0	763.6	759.2	760.3	750.9	762.3
	2COAXI094A	DEGF		763.6	765.6	766.7	781.5	775.2	768.6	762.5	769.8
SSH INT BANK OUTLET TEMP	2SGAPE0008	DEGF		918.1	914.0	914.2	924.4	923.1	920.4	913.3	915.4
MAIN STEAM TEMP	2COAXI015A	DEGF		1,001.7	1,002.7	1,002.2	1,005.1	1,003.9	1,007.5	1,004.4	1,003.9
COLD REHEAT INLET TEMP	2SGJTE0019	DEGF		634.9	636.7	636.1	638.2	636.3	640.1	637.3	637.1
	2SGJTE0022	DEGF		635.8	637.7	636.9	639.3	637.2	641.1	638.3	638.2
PRI RH SECTION STM OUT TEMP	2SGATE1637	DEGF		822.7	828.7	822.6	809.5	802.5	797.5	791.2	796.7
RH TURBINE INLET TEMP EAST	2COAXI104A	DEGF		997.2	1,007.3	999.1	1,005.8	990.4	1,007.5	994.0	1,000.7
RH TURBINE INLET TEMP WEST	2COAXI105A	DEGF		989.9	999.3	991.8	995.9	983.5	1,000.7	987.2	993.1
BLR HOT REHEAT AVE TEMP	2COAXI046A	DEGF		996.8	1,006.5	998.7	1,004.0	990.4	1,007.4	993.9	1,000.2
STEAM TEMP PICKUP											
DRUM THRU PSH	2SGAPE0001	DEGF		59.7	61.8	56.0	72.6	60.7	63.8	64.3	69.0
PLATENS	2SGAPE0002	DEGF		76.1	79.3	75.7	86.5	75.4	77.7	78.9	76.5
SSH INT BANK	2SGAPE0003	DEGF		151.1	152.2	153.5	151.9	156.3	155.9	156.5	148.9

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PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
SSH OUT BANK	2SGAPE0004	DEGF		83.6	88.5	88.1	80.5	80.5	87.0	91.1	88.7
PRI RH SECTION	2SGAPE0005	DEGF		187.1	191.5	186.2	170.5	165.8	157.0	153.7	158.7
RH OUTLET SECTION	2SGAPE0006	DEGF		170.8	174.4	173.0	191.7	184.2	206.6	199.5	200.8
FLOWS WTR/STM											
FEEDWATER FLOW (FOX 1A PT)	2FWAFT0025	KPPH		6525.4	6441.9	6489.9	6348.3	6496.6	6402.5	6400.6	6418.2
FEEDWATER FLOW (CCS PT)	2COAXI021A	KPPH		6043.7	5954.6	6004.8	5852.2	6012.7	5911.3	5908.0	5926.7
STEAM FLOW (FFW + SPRAYS)	2COAXI023A	KPPH		6292.5	6275.7	6290.3	6214.0	6294.9	6236.8	6294.6	6260.2
STEAM FLOW OFF 1ST STG PR	2COAXI024A	KPPH		No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
PMAX THROTTLE FLOW	2FWAPX3352	KPPH		6505.8	6471.0	6481.2	6399.6	6482.5	6424.8	6490.9	6454.6
ECON OUTLET											
EAST ECON O2 PROBE 1A	2SGAAZ0030	%		2.3	3.2	2.7	3.0	3.3	3.3	3.5	3.4
EAST ECON O2 PROBE 2A	2SGAAZ0031	%		2.9	3.9	3.3	3.4	3.7	3.7	3.8	3.7
EAST ECON O2 PROBE 3A	2SGAAZ0032	%		4.0	4.3	4.1	4.6	4.9	4.6	4.6	4.5
EAST ECON O2 PROBE 4A	2SGAAZ0033	%		3.4	2.7	3.1	3.9	4.4	3.7	3.7	3.6
EAST FLUE GAS O2	2COAXI079A	%		3.0	3.3	3.1	3.6	3.9	3.6	3.7	3.6
WEST ECON O2 PROBE 1B	2SGAAZ0034	%		2.4	2.2	3.0	3.7	4.1	4.0	3.9	3.8
WEST ECON O2 PROBE 2B	2SGAAZ0035	%		4.2	3.5	2.9	2.0	2.8	3.1	3.2	3.5
WEST ECON O2 PROBE 3B	2SGAAZ0036	%		3.5	2.5	1.9	1.4	1.3	1.5	1.5	2.0
WEST ECON O2 PROBE 4B	2SGAAZ0037	%		3.8	1.9	1.5	1.2	1.2	1.7	1.9	2.4
WEST FLUE GAS O2	2COAXI080A	%		3.1	2.1	2.0	1.8	2.1	2.3	2.3	2.6
SELECTED ECON OUT O2	2COAXI187A	%		3.1	2.7	2.6	2.7	3.0	3.0	3.0	3.1
TARGET ECON OUT O2	2COAXI188A	%		3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
EXCESS AIR %	2SGBPX3512	%		15.4	14.0	13.3	14.2	14.8	15.3	15.8	16.3
CARBON DIOXIDE %	2SGBPX3513	%		21.6	21.7	21.7	21.7	21.7	21.7	21.7	21.7
AIR/DRAFT PRESSURE											
SEC AIR DUCT PR E	2SGBPT0256	INWC		4.2	3.3	3.2	3.3	3.4	3.6	3.5	3.4
SEC AIR DUCT PR W	2SGBPT0257	INWC		4.3	3.4	3.4	3.5	3.6	3.7	3.7	3.6
FURNACE PRESSURE	2COAXI083A	INWC		-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5
SG EAST FLUE GAS PR	2SGAPT0171	INWC		0.0	-0.2	-0.2	0.0	0.0	0.0	-0.2	-0.1
SG SEC SUPHTR GAS PR	2SGAPT0169	INWC		-1.0	-1.0	-1.0	-1.0	-1.1	-1.0	-1.1	-1.1
SG HORIZ RH OUT PR	2SGAPT0167	INWC		-2.9	-2.9	-2.9	-2.7	-2.8	-2.8	-2.8	-2.7
SG PENDANT OUT PR	2SGAPT0168	INWC		-1.5	-1.5	-1.5	-1.5	-1.6	-1.6	-1.7	-1.6
SG PRI SUPHTR OUT PR	2SGAPT0166	INWC		-2.4	-2.4	-2.4	-2.5	-2.6	-2.6	-2.7	-2.6
SG ECON OUTLET PR	2SGAPT0165	INWC		-2.9	-2.9	-2.9	-3.1	-3.2	-3.2	-3.3	-3.2
SEC AH 1A INLET PR	2SGAPT0164	INWC		-3.9	-3.9	-3.9	-4.2	-4.4	-4.3	-4.4	-4.3
SEC AH 1B INLET PR	2SGAPT0183	INWC		-3.5	-3.4	-3.5	-3.8	-3.9	-3.8	-4.0	-3.8
ID FAN SUCTION PRESS	2COAXI084A	INWC		-15.7	-15.7	-15.7	-16.6	-16.9	-16.9	-17.1	-16.7
ID FAN 1A OUTLET PR	2CCEPT0115	INWC		3.9	4.0	3.9	3.7	3.9	4.0	4.0	4.0
ID FAN 1B OUTLET PR	2CCEPT0116	INWC		3.7	3.7	3.6	3.5	3.7	3.7	3.8	3.8

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PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
ID FAN 1C OUTLET PR	2CCEPT0117	INWC		3.6	3.7	3.6	3.2	3.4	3.5	3.6	3.7
ID FAN 1D OUTLET PR	2CCEPT0118	INWC		3.8	3.9	3.8	3.6	3.8	3.9	3.9	3.9
BAGHOUSE CASING DELTA P											
A CASING	2CCBA40001	INWC		6.1	6.2	6.0	6.2	6.2	6.3	6.3	6.2
B CASING	2CCBB40001	INWC		6.4	6.5	6.4	6.5	6.5	6.6	6.7	6.5
C CASING	2CCBC40001	INWC		6.1	6.1	6.1	6.4	6.4	6.6	6.5	6.3
FORCED DRAFT FAN 1A											
SEC AIR FLOW 1A	2COAXI076R	%		71.6	71.2	71.1	72.9	74.1	74.1	74.3	73.7
FD FAN 1A FLOW	2SGBFT0097	KCFM		820.5	810.2	813.7	816.8	843.1	842.3	848.4	849.1
FAN BLADE PITCH	2COAXI153A	%		56.2	53.7	53.1	53.6	55.4	55.6	56.2	56.0
FD FAN 1A D/P	2SGBPT0218	INWC		12.8	11.1	10.8	11.2	11.5	11.6	11.5	11.2
MOTOR AMPS	2SGBKK0005	AMPS		227.3	217.3	215.1	216.1	220.9	220.8	221.4	221.7
CORR ACTUAL HEAD	2SGBKV0111	INWC		No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
AIR HORSEPOWER	CALC	HP		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
FORCED DRAFT FAN 1B											
SEC AIR FLOW 1B	2COAXI077R	%		71.7	70.8	71.3	72.5	73.8	74.0	73.9	73.8
FD FAN 1B FLOW	2SGBFT0098	KCFM		729.9	715.3	712.4	716.0	743.2	747.6	753.5	749.7
FAN BLADE PITCH	2COAXI154A	%		56.0	53.9	53.0	53.1	54.7	55.6	55.4	55.2
FD FAN 1B D/P	2SGBPT0219	INWC		12.5	10.7	10.2	10.8	11.3	11.3	11.4	11.2
MOTOR AMPS	2SGBKK0006	AMPS		219.2	209.6	208.6	209.0	211.6	215.6	215.3	214.9
CORR ACTUAL HEAD	2SGBKV0112	INWC		No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
AIR HORSEPOWER	CALC	HP		#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
PRI AIR DUCT PRESS	2COAXI072A	INWC		44.3	44.1	44.0	44.1	44.0	43.9	43.9	43.9
PRIMARY AIR FAN 2A											
PA FAN FLOW 2A	2COAXI074R	%		32.2	32.0	32.0	32.2	32.1	32.1	32.0	31.9
MOTOR AMPS	2SGBKK0007	AMPS		204.9	205.3	206.0	203.9	204.2	204.6	205.1	205.0
INLET VANE CONTROL POSITION	2COAXI239A	%		67.5	71.4	72.4	63.7	66.2	67.8	69.6	69.9
PRIMARY AIR FAN 2B											
PA FAN FLOW 2B	2COAXI075R	%		36.0	35.8	35.5	36.3	36.3	36.2	36.2	36.3
MOTOR AMPS	2SGBKK0008	AMPS		207.1	207.5	207.6	205.2	205.7	205.8	206.7	206.7
INLET VANE CONTROL POSITION	2COAXI240A	%		67.9	71.9	73.0	64.0	66.7	68.3	70.1	70.3
SECONDARY AIR HEATER 1A											
AIR ENT SEC AH 1A	2COAXI124A	DEGF		55.6	61.2	60.3	46.6	51.8	55.8	58.4	60.3
AIR LVG SEC AH 1A	2COAXI149A	DEGF		691.9	699.9	699.3	703.7	699.1	698.0	693.8	690.1
GAS ENT SEC AH 1A	2SGATE1650	DEGF		755.2	762.8	758.4	765.8	759.1	759.5	752.3	751.2
GAS LVG SEC AH 1A	2COAXI122A	DEGF		277.6	287.6	287.9	278.3	279.6	283.3	284.7	283.7
FLUE GAS TEMP DROP	CALC	DEGF		477.7	475.2	470.4	487.5	479.6	476.2	467.6	467.5

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PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
AIR HEATER TEMP HEAD	CALC	DEGF		699.6	701.5	698.0	719.2	707.4	703.7	693.8	691.0
DROP/HEAD	CALC	%		68.3	67.7	67.4	67.8	67.8	67.7	67.4	67.7
SAH 1A EFFICIENCY - AIR SIDE	2SGBPX3525	%		92.0	92.3	92.5	92.1	92.0	92.1	92.2	92.0
SAH 1A EFFICIENCY - GAS SIDE	2SGBPX3526	%		65.8	63.8	63.2	63.1	63.0	62.7	62.3	63.2
SAH 1A AIR TO GAS LEAKAGE	2SGBPX3527	%		8.4	13.0	14.0	15.6	15.9	16.5	16.2	14.8
SAH 1A LEAKAGE (O2 METHOD)	2SGBPX3927	%		8.4	13.0	14.0	15.5	15.8	16.4	16.2	14.8
COLD END AVE TEMP	2SGBKV0008	DEGF		No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0216	INWC		4.9	4.9	4.9	5.0	5.2	5.2	5.2	5.2
MOTOR AMPS	2SGBKK0001	AMPS		48.2	48.0	47.9	48.9	48.7	48.7	48.2	48.1
SECONDARY AIR HEATER 1B											
AIR ENT SEC AH 1B	2COAXI125A	DEGF		54.8	60.5	61.2	47.1	52.1	56.5	59.1	61.0
AIR LVG SEC AH 1B	2COAXI150A	DEGF		692.7	702.4	700.2	702.3	697.6	696.6	692.5	689.4
GAS ENT SEC AH 1B	2SGATE1651	DEGF		694.9	703.0	700.0	711.8	706.9	705.4	699.1	697.8
GAS LVG SEC AH 1B	2COAXI123A	DEGF		278.7	287.3	288.5	280.3	281.2	284.0	284.1	283.2
FLUE GAS TEMP DROP	CALC	DEGF		416.2	415.7	411.5	431.4	425.8	421.4	415.1	414.7
AIR HEATER TEMP HEAD	CALC	DEGF		640.1	642.5	638.8	664.7	654.8	648.8	640.0	636.9
DROP/HEAD	CALC	%		65.0	64.7	64.4	64.9	65.0	64.9	64.8	65.1
SAH 1B EFFICIENCY - AIR SIDE	2SGBPX3530	%		101.1	101.1	101.4	100.4	100.3	100.4	100.5	100.3
SAH 1B EFFICIENCY - GAS SIDE	2SGBPX3531	%		62.4	61.0	60.7	61.0	61.3	61.6	61.4	62.1
SAH 1B AIR TO GAS LEAKAGE	2SGBPX3532	%		8.1	11.1	11.4	12.0	11.1	10.2	10.1	9.1
SAH 1B LEAKAGE (O2 METHOD)	2SGBPX3930	%		8.0	11.0	11.4	12.1	11.1	10.2	10.1	9.0
COLD END AVE TEMP	2SGBKV0009	DEGF		No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0217	INWC		5.0	5.2	5.3	5.4	5.4	5.5	5.5	5.5
MOTOR AMPS	2SGBKK0002	AMPS		29.5	29.5	29.3	30.0	29.8	29.8	29.5	29.4
PRIMARY AIR HEATER 2A											
AIR ENT PRI AH 2A	2SGBTE0911	DEGF		74.3	80.6	80.2	65.1	70.3	74.2	77.3	79.1
AIR LVG PRI AH 2A	2SGBTE0917	DEGF		540.5	543.3	539.6	550.4	545.3	545.8	538.8	538.6
GAS ENT PRI AH 2A	2SGATE1650	DEGF		755.2	762.8	758.4	765.8	759.1	759.5	752.3	751.2
GAS LVG PRI AH 2A	2COAXI120A	DEGF		301.6	301.5	298.0	302.9	300.6	302.2	298.5	299.7
FLUE GAS TEMP DROP	CALC	DEGF		238.9	241.8	241.7	247.5	244.8	243.6	240.3	238.9
AIR HEATER TEMP HEAD	CALC	DEGF		540.5	543.3	539.6	550.4	545.3	545.8	538.8	538.6
DROP/HEAD	CALC	%		44.2	44.5	44.8	45.0	44.9	44.6	44.6	44.4
PAH 2A EFFICIENCY - AIR SIDE	2SGBPX3535	%		68.5	67.9	67.7	69.3	69.0	68.8	68.4	68.3
PAH 2A EFFICIENCY - GAS SIDE	2SGBPX3536	%		66.6	67.6	67.9	66.0	66.5	66.7	67.2	67.1
COLD END AVE TEMP	2SGBKV0006	DEGF		No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0214	INWC		3.2	2.9	2.9	3.2	3.1	3.0	2.9	2.9
MOTOR AMPS	2SGBKK0003	AMPS		3.0	3.0	3.0	3.1	3.1	3.1	3.0	3.0
PRIMARY AIR HEATER 2B											
AIR ENT PRI AH 2B	2SGBTE0912	DEGF		72.4	79.7	80.8	64.3	69.2	73.7	76.2	78.5
AIR LVG PRI AH 2B	2SGBTE0918	DEGF		519.2	525.7	522.0	533.4	529.1	529.7	522.8	523.5
GAS ENT PRI AH 2B	2SGATE0710	DEGF		756.2	760.3	761.8	781.6	774.2	772.9	767.2	765.3

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PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
GAS LVG PRI AH 2B	2COAXI121A	DEGF		302.3	302.8	298.9	303.7	301.5	302.7	299.1	300.6
FLUE GAS TEMP DROP	CALC	DEGF		216.9	222.9	223.1	229.7	227.6	227.0	223.6	222.9
AIR HEATER TEMP HEAD	CALC	DEGF		519.2	525.7	522.0	533.4	529.1	529.7	522.8	523.5
DROP/HEAD	CALC	%		41.8	42.4	42.7	43.1	43.0	42.9	42.8	42.6
PAH 2B EFFICIENCY - AIR SIDE	2SGBPX3540	%		71.8	71.5	71.3	72.4	72.2	72.2	71.7	71.8
PAH 2B EFFICIENCY - GAS SIDE	2SGBPX3541	%		63.0	64.1	64.8	63.0	63.5	63.7	64.2	64.1
COLD END AVE TEMP	2SGBKV0007	DEGF		No Good Dat	No Good Dat	No Good Dat	No Good Dat	No Good Dat	No Good Dat	No Good Dat	No Good Dat
DIFFERENTIAL PRESS	2SGBPT0215	INWC		3.7	3.3	3.2	3.5	3.4	3.3	3.3	3.3
MOTOR AMPS	2SGBKK0004	AMPS		3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3
TOTAL AH LKG (CO2 METHOD)	2SGBPX3933	%		9.6	11.8	12.4	12.1	12.3	11.8	11.6	11.1
TOTAL AH LKG (GAS WT METH)	2SGBPX3936	%		8.2	12.0	12.6	13.6	13.3	13.2	13.0	11.8
TOTAL AH LKG (O2 METHOD)	2SGBPX3940	%		8.2	11.9	12.6	13.6	13.2	13.2	13.0	11.8
INDUCED DRAFT FAN 1A											
XFMR 1A1 AMPS	2CCEKK0001	AMPS		115.0	115.6	115.9	115.1	115.3	115.4	115.4	115.4
XFMR 1A2 AMPS	2CCEKK0002	AMPS		258.9	259.3	259.3	259.8	265.0	267.2	269.0	265.9
ID FAN 1A SPEED	2COAXI086A	RPM		693.1	696.4	696.7	703.5	714.3	716.9	722.1	714.5
INDUCED DRAFT FAN 1B											
XFMR 1B1 AMPS	2CCEKK0003	AMPS		258.4	258.8	258.6	259.5	265.0	266.5	269.0	266.0
XFMR 1B2 AMPS	2CCEKK0004	AMPS		276.3	275.6	276.1	278.0	231.3	283.2	286.6	273.9
ID FAN 1B SPEED	2COAXI087A	RPM		693.3	696.6	696.9	703.7	714.7	717.4	722.7	715.2
INDUCED DRAFT FAN 1C											
XFMR 1C1 AMPS	2CCEKK0005	AMPS		283.4	282.9	283.5	285.1	310.1	293.2	296.6	296.3
XFMR 1C2 AMPS	2CCEKK0006	AMPS		231.4	229.8	230.0	233.2	236.9	237.0	240.3	237.8
ID FAN 1C SPEED	2COAXI088A	RPM		687.1	690.3	690.6	697.3	707.8	710.2	715.8	708.5
INDUCED DRAFT FAN 1D											
XFMR 1D1 AMPS	2CCEKK0007	AMPS		231.7	230.5	230.5	234.1	237.6	238.5	241.0	238.0
XFMR 1D2 AMPS	2CCEKK0008	AMPS		221.6	221.6	220.4	230.0	236.2	237.1	238.8	234.9
ID FAN 1D SPEED	2COAXI089A	RPM		610.5	613.4	613.0	619.7	628.3	630.2	635.4	629.1
TOTAL ID FAN AMPS	CALC	AMPS		1876.6	1874.2	1874.3	1894.8	1897.4	1938.1	1956.6	1928.2
COAL PULVERIZER 1A											
PULV COAL FLOW	2COAXI002A	TPH		44.8	43.5	43.5	43.7	43.8	43.6	43.8	43.5
FEEDER SPEED	2SGAPEFDRA	%		65.9	63.9	64.1	64.2	64.4	64.2	64.3	63.9
PULV PA FLOW	2COAXI056A	%		88.1	87.5	87.5	87.5	87.6	87.5	87.6	87.4
PA DAMPER POS	2COAKS021A	%		78.1	76.8	77.1	77.0	77.1	76.3	76.5	76.2
PULV INLET TEMP	2SGATE0639	DEGF		291.6	287.8	285.6	284.2	283.6	280.8	280.4	280.2
PULV DISCH TEMP	2COAXI064A	DEGF		149.4	149.1	149.2	149.5	149.7	149.5	149.7	149.1
PULV DIFF PRESS	2SGAPT0150	INWC		12.7	11.9	12.0	11.9	11.9	11.9	12.0	11.9

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PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
PULV AMPS	2SGAKK0001	AMPS		61.6	61.9	62.1	61.2	61.4	61.7	61.3	61.4
AMPS/DP	CALC			4.84	5.18	5.19	5.16	5.19	5.20	5.12	5.17
TPH/AMPS	CALC			0.73	0.70	0.70	0.71	0.71	0.71	0.71	0.71
TPH/DP	CALC			12.73	11.94	11.96	11.86	11.85	11.86	11.97	11.88
COAL PULVERIZER 1B											
PULV COAL FLOW	2COAXI003A	TPH		45.6	44.4	44.4	44.5	44.5	44.4	44.6	44.3
FEEDER SPEED	2SGAPEFDRB	%		67.0	65.3	65.4	65.5	65.5	65.4	65.7	65.3
PULV PA FLOW	2COAXI057A	%		86.7	84.7	84.7	84.8	84.8	84.7	84.9	84.7
PA DAMPER POS	2COAKS022A	%		66.3	65.0	65.1	65.0	65.1	65.0	65.2	65.1
PULV INLET TEMP	2SGATE0640	DEGF		317.8	317.1	320.4	307.9	305.2	304.1	307.9	311.1
PULV DISCH TEMP	2COAXI065A	DEGF		152.4	152.5	152.0	152.5	152.2	152.2	152.1	152.3
PULV DIFF PRESS	2SGAPT0151	INWC		9.8	9.1	9.2	9.3	9.4	9.4	9.5	9.3
PULV AMPS	2SGAKK0002	AMPS		58.1	57.9	58.1	58.6	58.9	59.1	58.9	58.6
AMPS/DP	CALC			5.95	6.37	6.35	6.32	6.25	6.27	6.18	6.33
TPH/AMPS	CALC			0.78	0.77	0.76	0.76	0.76	0.75	0.76	0.76
TPH/DP	CALC			9.78	9.08	9.16	9.28	9.43	9.42	9.53	9.27
COAL PULVERIZER 1C											
PULV COAL FLOW	2COAXI004A	TPH		38.4	46.8	46.8	46.9	47.0	46.8	47.0	46.7
FEEDER SPEED	2SGAPEFDRC	%		56.2	68.8	68.7	68.9	69.2	69.0	69.2	68.8
PULV PA FLOW	2COAXI058A	%		71.4	84.7	84.7	84.8	84.8	84.7	84.8	84.6
PA DAMPER POS	2COAKS023A	%		56.8	67.7	68.0	68.0	67.6	67.7	68.2	67.4
PULV INLET TEMP	2SGATE0641	DEGF		273.3	292.1	289.0	297.7	299.2	299.3	298.3	296.5
PULV DISCH TEMP	2COAXI066A	DEGF		136.9	149.2	149.1	149.1	149.2	149.3	149.4	149.3
PULV DIFF PRESS	2SGAPT0152	INWC		7.7	9.8	10.0	10.1	10.1	9.9	10.1	10.0
PULV AMPS	2SGAKK0003	AMPS		53.1	64.8	65.1	65.8	65.8	65.6	65.5	65.1
AMPS/DP	CALC			6.91	6.64	6.53	6.53	6.51	6.61	6.50	6.49
TPH/AMPS	CALC			0.72	0.72	0.72	0.71	0.71	0.71	0.72	0.72
TPH/DP	CALC			7.69	9.76	9.97	10.07	10.11	9.93	10.08	10.03
COAL PULVERIZER 1D											
PULV COAL FLOW	2COAXI005A	TPH		45.3	44.1	44.1	44.2	44.2	44.1	44.3	44.0
FEEDER SPEED	2SGAPEFDRD	%		66.5	64.8	64.6	65.0	65.1	64.8	65.2	64.8
PULV PA FLOW	2COAXI059A	%		75.1	70.7	70.5	70.8	70.6	70.3	70.7	70.3
PA DAMPER POS	2COAKS024A	%		65.1	63.0	63.3	62.3	62.7	63.1	63.4	63.2
PULV INLET TEMP	2SGATE0642	DEGF		313.1	306.9	307.9	301.7	300.0	299.3	300.8	299.4
PULV DISCH TEMP	2COAXI067A	DEGF		149.4	149.2	149.5	149.2	149.4	149.3	149.1	149.1
PULV DIFF PRESS	2SGAPT0153	INWC		9.4	8.1	8.2	8.3	8.3	8.3	8.4	8.3
PULV AMPS	2SGAKK0004	AMPS		65.2	67.6	67.7	68.3	68.4	68.1	68.2	68.1
AMPS/DP	CALC			6.96	8.35	8.30	8.26	8.20	8.16	8.11	8.22
TPH/AMPS	CALC			0.69	0.65	0.65	0.65	0.65	0.65	0.65	0.65
TPH/DP	CALC			9.36	8.09	8.16	8.27	8.34	8.35	8.41	8.29

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PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
COAL PULVERIZER 1E											
PULV COAL FLOW	2COAXI006A	TPH		45.6	44.6	44.6	44.7	44.8	44.6	44.8	44.5
FEEDER SPEED	2SGAPEFDRE	%		66.9	65.7	65.7	65.7	65.9	65.5	65.8	65.6
PULV PA FLOW	2COAXI060A	%		87.5	85.4	85.5	85.5	85.5	85.4	85.6	85.4
PA DAMPER POS	2COAKS025A	%		76.1	72.5	72.8	71.9	71.8	71.6	71.7	71.6
PULV INLET TEMP	2SGATE0643	DEGF		294.4	300.7	299.6	301.2	303.5	302.9	299.7	300.6
PULV DISCH TEMP	2COAXI068A	DEGF		149.6	153.9	153.7	152.3	153.6	154.7	153.8	154.4
PULV DIFF PRESS	2SGAPT0154	INWC		15.1	13.4	13.6	12.5	12.4	12.4	12.4	12.3
PULV AMPS	2SGAKK0005	AMPS		60.2	61.7	62.6	62.7	62.5	62.0	62.0	62.0
AMPS/DP	CALC			3.98	4.59	4.59	5.02	5.03	5.01	5.00	5.06
TPH/AMPS	CALC			0.76	0.72	0.71	0.71	0.72	0.72	0.72	0.72
TPH/DP	CALC			15.11	13.44	13.63	12.50	12.42	12.38	12.41	12.26
COAL PULVERIZER 1F											
PULV COAL FLOW	2COAXI007A	TPH		44.8	44.1	44.2	44.3	44.3	44.1	44.4	44.1
FEEDER SPEED	2SGAPEFDRF	%		65.8	64.8	64.7	65.0	65.0	64.8	65.3	64.9
PULV PA FLOW	2COAXI061A	%		87.1	84.7	84.7	84.8	84.8	84.7	84.8	84.6
PA DAMPER POS	2COAKS026A	%		73.2	70.5	70.5	69.3	68.5	68.2	68.1	68.2
PULV INLET TEMP	2SGATE0644	DEGF		327.8	325.0	327.8	329.3	324.8	322.8	327.7	327.1
PULV DISCH TEMP	2COAXI069A	DEGF		149.8	149.9	150.0	149.9	150.0	150.0	149.8	150.2
PULV DIFF PRESS	2SGAPT0155	INWC		15.8	15.2	15.3	13.3	12.5	12.4	12.7	12.5
PULV AMPS	2SGAKK0006	AMPS		59.5	58.3	58.3	61.0	62.1	62.3	62.0	61.7
AMPS/DP	CALC			3.76	3.83	3.81	4.57	4.96	5.01	4.90	4.94
TPH/AMPS	CALC			0.75	0.76	0.76	0.73	0.71	0.71	0.72	0.71
TPH/DP	CALC			15.81	15.23	15.29	13.33	12.53	12.42	12.65	12.50
COAL PULVERIZER 1G											
PULV COAL FLOW	2COAXI008A	TPH		45.6	44.4	44.4	44.5	44.6	44.4	44.6	44.3
FEEDER SPEED	2SGAPEFDRG	%		67.1	65.3	65.1	65.4	65.5	65.4	65.7	65.2
PULV PA FLOW	2COAXI062A	%		86.1	85.3	85.3	85.4	85.4	85.3	85.4	85.3
PA DAMPER POS	2COAKS027A	%		69.9	68.3	68.4	68.4	68.5	68.6	68.0	68.4
PULV INLET TEMP	2SGATE0645	DEGF		329.1	311.8	311.1	316.4	314.9	314.4	321.4	324.0
PULV DISCH TEMP	2COAXI070A	DEGF		149.8	149.8	149.4	149.7	149.9	150.0	149.6	149.9
PULV DIFF PRESS	2SGAPT0156	INWC		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PULV AMPS	2SGAKK0007	AMPS		58.4	61.9	61.9	61.4	61.4	60.9	60.6	59.0
AMPS/DP	CALC			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
TPH/AMPS	CALC			0.78	0.72	0.72	0.72	0.73	0.73	0.74	0.75
TPH/DP	CALC			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COAL PULVERIZER 1H											
PULV COAL FLOW	2COAXI009A	TPH		45.0	43.8	43.7	44.0	44.0	43.8	44.0	43.8
FEEDER SPEED	2SGAPEFDRH	%		66.3	64.3	64.2	64.6	64.8	64.4	64.7	64.3
PULV PA FLOW	2COAXI063A	%		86.6	84.7	84.7	84.8	84.8	84.7	84.8	84.7
PA DAMPER POS	2COAKS028A	%		88.1	86.1	86.4	86.6	86.5	86.7	86.4	86.3

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PARAMETER	PT ID	UNITS	call column	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8
start time			4/21/04 10:10	4/21/04 10:10	4/21/04 14:00	4/21/04 15:30	4/22/04 8:30	4/22/04 10:15	4/22/04 11:30	4/22/04 12:45	4/22/04 14:00
end time			4/21/04 12:10	4/21/04 12:10	4/21/04 14:30	4/21/04 16:00	4/22/04 9:45	4/22/04 11:00	4/22/04 12:15	4/22/04 13:15	4/22/04 14:30
PULV INLET TEMP	2SGATE0646	DEGF		334.8	329.2	330.7	337.0	332.6	328.1	328.2	324.9
PULV DISCH TEMP	2COAXI071A	DEGF		150.5	150.6	150.7	150.4	150.5	150.3	150.3	150.4
PULV DIFF PRESS	2SGAPT0157	INWC		10.9	10.1	10.1	10.4	10.4	10.2	10.3	10.1
PULV AMPS	2SGAKK0008	AMPS		61.4	61.2	61.2	60.9	61.0	60.9	60.7	60.6
AMPS/DP	CALC			5.64	6.05	6.06	5.88	5.89	5.94	5.89	5.99
TPH/AMPS	CALC			0.73	0.72	0.71	0.72	0.72	0.72	0.73	0.72
TPH/DP	CALC			10.89	10.10	10.09	10.35	10.36	10.25	10.30	10.10
PULV AMP SWING											
A PULV	CALC	AMPS		9.69	10.81	9.47	10.97	9.73	10.46	8.31	9.81
B PULV	CALC	AMPS		9.38	7.55	7.29	8.12	8.20	7.47	7.65	8.61
C PULV	CALC	AMPS		93.73	12.23	11.00	11.55	12.08	14.03	12.74	12.21
D PULV	CALC	AMPS		21.92	16.17	15.85	15.46	13.88	16.62	14.03	14.52
E PULV	CALC	AMPS		11.01	10.22	11.52	13.80	11.81	12.07	11.28	12.03
F PULV	CALC	AMPS		6.49	6.43	6.31	13.31	12.03	11.36	12.46	13.05
G PULV	CALC	AMPS		8.47	13.27	13.46	15.31	15.45	14.96	14.03	13.72
H PULV	CALC	AMPS		8.04	7.65	8.65	9.69	8.16	9.16	7.69	7.25
CLEANLINESS FACTOR											
WATERWALLS	2SGAPX3577			0.81	0.78	0.79	0.76	0.81	0.78	0.78	0.79
PSH SECTION	2SGAPX3628			0.84	0.81	0.80	0.82	0.80	0.81	0.86	0.89
SSH PLATEN SECTION	2SGAPX3587			1.00	0.98	1.00	1.01	1.00	0.98	0.99	0.94
SSH INTERMEDIATE SECTION	2SGAPX3598			0.80	0.76	0.79	0.74	0.83	0.79	0.82	0.76
SSH OUTLET SECTION	2SGAPX3608			0.69	0.69	0.72	0.60	0.66	0.68	0.74	0.70
PRIMARY RH SECTION	2SGAPX3648			0.83	0.83	0.82	0.81	0.81	0.80	0.82	0.85
RH OUTLET SECTION	2SGAPX3618			0.73	0.71	0.74	0.74	0.79	0.89	0.89	0.86
ECONOMIZER SECTION	2SGAPX3638			0.77	0.73	0.72	0.74	0.74	0.73	0.75	0.75
MAIN STEAM PRESSURE	2COAXI012A	PSIG		2210.78	2207.89	2208.60	2212.29	2210.01	2211.65	2208.46	2209.90
CRH Inlet	2SGJPT0012	PSIG		564.93	564.62	565.70	564.51	565.72	564.84	566.99	566.53
HRH Outlet	2SGJPT0006	PSIG		526.85	526.60	527.49	526.47	527.53	526.81	528.78	528.46
HRH Outlet	2SGJPT0007	PSIG		525.58	525.34	526.24	525.23	526.28	525.55	527.53	527.14
Delta P CRH to HRH	calc			38.72	38.65	38.83	38.66	38.81	38.65	38.84	38.73
MAIN STEAM CHEST PRESSURE	2TGAPT0040	PSIG		2177.37	2175.05	2175.46	2179.76	2176.65	2178.84	2175.72	2176.77
1ST STAGE INLET	2COAXI042S	PSIG		2124.67	2115.57	2125.37	2114.61	2133.85	2118.91	2131.09	2125.71
Turbine Valve Position	2TGFPE0037	% open		43.10	39.92	43.91	38.39	50.01	39.51	47.43	42.87

IP7_032768

U2 Burner Setup & Tuning (new ABT burners & BPI overfire air) follc

PARAMETER	PT ID	UNITS	Test 9	Test 10	Test 11	Test 12	Test 13	Test 14	Test 15	Test 16	Test 17
start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
Test Conditions:			burner settings 9" OR, 3" spin, 9th hole inner	burner settings 9" OR, 3" spin, 5th hole inner	burner settings 9" OR, 2" spin, 5th hole inner	burner settings 9" OR, 4.5" spin, 5th hole inner	burner settings 9" OR, 3 75" spin, 5th hole inner	burner settings 9" OR, 3.75" spin, 5th hole inner	burner settings 9" OR, 3.75" spin, 7th hole inner	burner settings 9" OR, 3.75" spin, 9th hole inner	burner settings 9" OR, 3.75" spin, 4th hole inner
GROSS CAPACITY Load, net	COAXI027A	MW	904.12	902.68	902.61	902.00	902.31	903.95	904.03	900.64	900.39
Pulv Status			All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s
BOILER											
BOILER EFF (HL Method)	2SGAPX3550	%	89.42	89.06	89.09	89.10	88.89	89.36	89.20	89.21	89.12
BOILER EFF (Input-Output Method)	2SGAPX3561	%	93.59	93.73	92.87	91.67	91.92	90.04	90.66	89.97	91.37
BLOWDOWN FLOW	2SGAPE116F	KPPH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SH SPRAY FLOW	2COAXI022A	KPPH	345.49	361.94	306.85	232.12	232.68	302.63	347.55	287.34	312.96
PMAX SH SPRAY FLOW	2SGAPX3033	KPPH	372.05	399.11	333.24	241.56	240.43	303.98	358.95	288.49	313.12
RH SPRAY FLOW	2COAXI108A	KPPH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PMAX RH SPRAY FLOW	2SGAPX3918	KPPH	0.00	0.00	0.00	0.00	0.00	47.12	47.92	49.35	51.14
TOTAL AIR FLOW	2COAXI078S	%	80.6	78.8	78.0	78.4	77.7	79.1	78.6	77.9	76.9
EXCESS AIR (CALC'D)	2SGBPX3512	%	16.85	13.67	13.83	14.04	14.17	15.60	15.40	15.05	14.80
TOTAL FUEL FLOW	2COAXI001A	TPH	350.6	349.5	350.4	350.9	347.1	358.6	359.9	356.2	351.5
PMAX BACKCALC COAL FLOW	2SGAPX3504	TPH	347.7	347.1	348.1	348.4	346.8	345.4	347.6	345.3	345.8
REHEAT DAMPER POS	2COAXI136A	%	32.1	29.0	29.0	29.0	29.0	71.4	72.3	96.7	74.4
SUPERHEAT DAMPER POS	2COAXI135A	%	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
BOILER DUTY (HEAT INPUT)	CALC	MBTU/HR	8053	8029	8048	8061	7974	8238	8266	8183	8075
COAL..AS-FIRED											
HHVC	9CHEKT0001	BTU/LB	11,485	11,485	11,485	11,485	11,485	11,485	11,485	11,485	11,485
% TOTAL MOISTURE	9CHEKT0005	%	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
% ASH	9CHEKT0006	%	9.24	9.24	9.24	9.24	9.24	9.24	9.24	9.24	9.24
% SULFUR	9CHEKT0007	%	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
% CARBON	9CHEKT0009	%	64.32	64.32	64.32	64.32	64.32	64.32	64.32	64.32	64.32
% HYDROGEN	9CHEKT0010	%	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58
% NITROGEN	9CHEKT0011	%	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
% OXYGEN	9CHEKT0012	%	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70
ASH											

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PARAMETER	PT ID	UNITS	Test 9	Test 10	Test 11	Test 12	Test 13	Test 14	Test 15	Test 16	Test 17
start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
FLY ASH LOI TOTAL	MANUAL	%									
FLY ASH LOI EAST	MANUAL	%									
FLY ASH LOI WEST	MANUAL	%									
BOILER CONDITIONS	Pulv O/s	manual	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s	All pulv l/s
EAST FLUE GAS O2	2COAXI079A	%	3.5	3.9	2.8	2.8	3.7	3.2	3.2	3.5	2.7
EAST FLUE GAS O2 (GRID)	MANUAL	%	4.0	4.4	3 8	3 9	4 1	3.9	3.9	4.0	3.3
EAST FLUE GAS CO (GRID)	MANUAL	ppm	30.3	16.5	63.4	6.4	13.7	2 0	44.5	5.1	14.8
EAST FLUE GAS CO2 (GRID)	MANUAL	%	15.1	13.9	14.3	14.3	14.6	12.9	19 2	14.6	14.2
WEST FLUE GAS O2	2COAXI080A	%	2.7	2.7	3.3	3.4	3.1	3.1	3.2	2.5	3.0
WEST FLUE GAS O2 (GRID)	MANUAL	%	4.2	3.9	4.4	4.1	3.7	3.9	3.8	3.6	3.7
WEST FLUE GAS CO (GRID)	MANUAL	ppm	59.3	52.7	46.8	0.0	55.6	13.8	19.5	124.0	43.4
WEST FLUE GAS CO2 (GRID)	MANUAL	%	14.1	14 2	13.8	14.0	14.3	14.4	14.5	14.4	14.3
SCRUB INLET SO2	2SAAKK0002	PPM	360.3	406.8	403.1	411.2	410.2	344.7	358.5	361.0	370.1
STACK NOX	2SAAKK0006	PPM	201.6	217.2	212.8	231.1	220.1	201.1	203.7	202.3	203.2
STACK NOX CONVERTED	2SAAKK0007	PPM	0.36	0.38	0.38	0.41	0.39	0.35	0.36	0.35	0.35
STACK CO	MANUAL	ppm	41 2			89.5	26 2	5 7	10.0	55.9	17.9
STACK O2	MANUAL	%	6.1			5.2	5.9	6.1	5.9	5.8	5.7
O2 TRIM SETPOINT	2COAXI220A	%	63.08	58.99	57.97	58.17	58.17	55.98	54.58	54.58	54.58
CEM STACK VOL FLOW	2SAAKK0016	MSCFH	141.40	137.49	137.76	136.92	135.89	135.63	135.19	134.79	132.83
PMAX CALC STACK VOL FLOW	2SGAPX3903	MSCFH	130.93	130.52	129.18	129.62	130.41	132.37	133.06	130.45	127.60
PMAX BLR GAS FLOW	2SGAPX3520	LB/HR	7,666,131	7,720,154	7,637,666	7,656,379	7,705,217	7,868,776	7,916,425	7,759,184	7,581,613
PMAX BLR AIR FLOW RATE	2SGAPX3522	LB/HR	7,030,021	7,086,094	7,002,059	7,020,065	7,075,493	7,218,010	7,263,512	7,112,725	6,943,798
SCRUB INLET NOX	2SAAKK0010	PPM	223.04	236.67	231.33	249.44	237.29	217.71	220.51	219.55	218.48
SCRUB INLET SO2	2SAAKK0003	#/mbtu	0.84	0.94	0.94	0.95	0.95	0.80	0.83	0.84	0.86
U1 SCRUB INLET SO2	1SAAKK0002	PPM	387.24	451.42	457.61	440.40	450.88	394.11	395.79	398.28	410.64
U1 SCRUB INLET SO2	1SAAKK0003	#/mbtu	0.84	0.98	0.99	0.97	0.98	0.83	0.84	0.85	0.86
Scrub In CO2	2SAAKK0012	%	12.85	12.90	12.81	12.93	12.83	12.82	12.94	12.79	12.91
Stack CO2	2SAAKK0015	%	12.15	12.14	12.16	12.25	12.20	12.22	12.28	12.25	12.33
SA FLOW EAST %	2COAXI076R	%	73.16	71.53	70.45	71.10	70.39	71.73	71.01	70.62	69.34
SA FLOW West %	2COAXI077R	%	73.53	71.21	70.48	70.99	70.67	72.00	71.38	70.66	69.79
TOTAL AIR %	2COAXI078S	%	80.63	78.85	78.04	78.39	77.66	79.06	78.57	77.86	76.94
E WINDBOX PRESS	2SGAPT0176	psig	3.77	3.78	7.00	1.41	2.09	2.37	2.21	2.07	2.19
A WINDBOX PRESS	2SGAPT0175	psig	3.44	3.45	6.60	1.13	1 83	2.09	1.95	1.82	1.96
F WINDBOX PRESS	2SGAPT0174	psig	3.60	3.58	6.69	1.28	1.94	2.23	2.08	1.96	2.08
B WINDBOX PRESS	2SGAPT0173	psig	3.09	3.04	6.18	0.80	1.49	1.75	1.60	1.50	1.61
D WINDBOX PRESS	2SGAPT0180	psig	3.54	3.52	6.75	1.31	1.98	2.22	2.06	1.96	2.10
H WINDBOX PRESS	2SGAPT0179	psig	3.35	3.36	6.56	1.12	1.79	2.07	1.91	1.80	1.93
C WINDBOX PRESS	2SGAPT0178	psig	3.83	3.82	7.01	1.50	2.20	2.45	2.28	2.17	2.32

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PARAMETER	PT ID	UNITS	Test 9	Test 10	Test 11	Test 12	Test 13	Test 14	Test 15	Test 16	Test 17
start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
G WINDBOX PRESS	2SGAPT0177	psig	3.44	3.46	6.62	1.07	1.86	1.96	1.78	1.72	1.91
SA Duct East PRESS	2SGBPT0256	psig	3.31	3.22	4.65	2.06	2.43	2.49	2.36	2.32	2.37
SA Duct West PRESS	2SGBPT0257	psig	3.38	3.38	4.76	2.17	2.59	2.59	2.51	2.38	2.46
Coal Bias Pulv A	2COAXI221A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv B	2COAXI222A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv C	2COAXI223A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv D	2COAXI224A	%	0.00	0.00	0.00	0.00	0 00	0.00	0.00	0.00	0.00
Coal Bias Pulv E	2COAXI225A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv F	2COAXI226A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv G	2COAXI227A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv H	2COAXI228A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv A	2COAXI211A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv B	2COAXI212A	%	0.00	4.20	4.20	4.20	4.20	0.00	0.00	0.00	0.00
PA Bias Pulv C	2COAXI213A	%	0.00	0 00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv D	2COAXI214A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv E	2COAXI215A	%	0.00	4.20	4.20	4.20	4.20	0.00	0.00	0.00	0.00
PA Bias Pulv F	2COAXI216A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv G	2COAXI217A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv H	2COAXI218A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SA Damper Pos Pulv A	2COAKS007A	%	56.70	56.78	56.91	57.26	56.16	58.48	58.74	57.98	56.96
SA Damper Pos Pulv B	2COAKS003A	%	56.73	56.81	57.10	57.11	57.16	58.49	58.72	57.97	56.95
SA Damper Pos Pulv C	2COAKS005A	%	61.11	61.12	61.28	61.55	60.61	62.91	63.23	62.38	61.37
SA Damper Pos Pulv D	2COAKS009A	%	60.65	60.56	60.85	61.07	60.22	62.42	62.67	61.96	60.91
SA Damper Pos Pulv E	2COAKS010A	%	61 13	61 10	61.28	61.59	60.69	62.96	63.14	62.36	61.33
SA Damper Pos Pulv F	2COAKS006A	%	61.03	61.08	61.17	61.54	60.51	62.80	63.08	62.30	61.27
SA Damper Pos Pulv G	2COAKS004A	%	56.76	56.81	57.00	57.28	56.33	58.54	58.77	58.05	57.06
SA Damper Pos Pulv H	2COAKS008A	%	56.56	56.62	56.78	57.07	56.05	58.37	58.67	57.85	56.83
BOILER HEAT DUTY											
BLR HEAT DUTY	2SGAPX3563	MBTU/HR	7488.51	7477.51	7437.17	7355.52	7304.71	7377.25	7463.83	7347.33	7373.11
WATER WALLS HEAT DUTY	2SGAPX3690	MBTU/HR	2969.97	2924.32	3011.83	3081.73	3016.12	3012.02	3000.63	3040.28	3015.50
SSH PLATENS HEAT DUTY	2SGAPX3691	MBTU/HR	558.35	553.49	548.55	537.99	538.18	580.77	598.40	565.83	591.36
SSH INT SECTION HEAT DUTY	2SGAPX3692	MBTU/HR	787.95	775.97	771.29	775.45	790.54	820.70	870.83	836.79	819.92
SSH OUTLET SECTION HEAT DUTY	2SGAPX3693	MBTU/HR	386.52	354.26	352.80	341.99	345.30	367.08	372.62	387.82	369.22
RH OUTLET SECTION HEAT DUTY	2SGAPX3694	MBTU/HR	594.87	585.22	560.47	532.26	588.40	511.61	509.88	549.11	521.64
PSH SECTION HEAT DUTY	2SGAPX3695	MBTU/HR	863.24	921.39	877.57	826.13	807.69	769.49	750.37	718.11	756.45
ECON SECTION HEAT DUTY	2SGAPX3696	MBTU/HR	279.67	273.90	271.48	290.39	282.59	253.94	249.34	236.32	237.90
PRI RH SECTION HEAT DUTY	2SGAPX3697	MBTU/HR	520.13	537.38	544.94	553.37	526.44	591.37	591.88	552.23	582.28
TEMPS AIR/GAS											

IP7_032771

PARAMETER	PT ID	UNITS	Test 9	Test 10	Test 11	Test 12	Test 13	Test 14	Test 15	Test 16	Test 17
start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
AIR TEMP ENT SAH 1A	2COAXI124A	DEGF	62.0	59.6	65.1	67.6	69.2	59.8	64.1	71.5	77.9
AIR TEMP ENT SAH 1B	2COAXI125A	DEGF	63.0	59.6	65.6	68.7	70.2	60.1	64.3	71.7	78.3
AIR TEMP LVG SAH 1A	2COAXI149A	DEGF	685.0	710.6	703.7	693.6	700.1	701.1	700.6	696.3	689.8
AIR TEMP LVG SAH 1B	2COAXI150A	DEGF	685.3	708.8	704.5	694.0	696.7	695.6	697.0	692.4	687.7
FLAME GAS TEMP	2SGAPX3571	DEGF	3,645.2	3,642.6	3,668.7	3,644.9	3,611.9	3,559.1	3,556.2	3,579.9	3,635.2
SSH PLATENS GAS OUT TEMP	2SGAPX3582	DEGF	2,253.2	2,278.9	2,259.2	2,210.7	2,208.3	2,166.2	2,169.7	2,163.0	2,192.6
SSH INT GAS IN TEMP	2SGAPX3591	DEGF	2,253.2	2,279.5	2,259.2	2,210.7	2,208.3	2,166.2	2,169.7	2,163.0	2,192.6
SSH INT GAS OUT TEMP	2SGAPX3592	DEGF	1,924.1	1,957.1	1,935.5	1,884.7	1,878.6	1,830.3	1,815.5	1,815.5	1,844.5
SSH OUTLET BANK GAS OUT T	2SGAPX3602	DEGF	1,761.0	1,808.1	1,785.6	1,739.2	1,732.3	1,677.9	1,661.5	1,652.1	1,685.0
RH OUTLET BANK GAS OUT TEMP	2SGAPX3612	DEGF	1,505.6	1,559.8	1,544.5	1,509.8	1,479.9	1,463.0	1,447.9	1,417.2	1,457.4
PRI RH BANKS GAS IN TEMP	2SGAPX3641	DEGF	1,493.6	1,550.4	1,520.1	1,519.9	1,512.7	1,510.1	1,492.9	1,464.2	1,495.0
RH SECTION GAS OUT TEMP	2SGATE1631	DEGF	742.2	753.8	743.9	742.3	751.3	767.4	765.7	758.0	754.9
TARGET RH EXIT GAS TEMP	2SGAPX3679	DEGF	758.7	758.4	758.5	758.6	758.6	758.7	758.7	758.6	758.5
PSH OUTLET GAS TEMP	2SGAPX3622	DEGF	941.8	973.1	966.6	962.7	954.9	944.4	939.9	923.1	918.9
PSH / ECON EXIT GAS TEMP	2SGATE1625	DEGF	749.5	789.5	778.2	760.8	762.6	765.3	763.0	753.3	740.3
TARGET ECON EXIT GAS TEMP	2SGAPX3688	DEGF	759.9	759.2	759.2	759.1	759.1	759.8	759.7	759.6	759.5
AVE ECON EXIT GAS TEMP	2SGAPX3015	DEGF	717.9	742.1	734.2	723.0	727.6	733.2	731.3	724.5	716.8
TARGET EXIT GAS TEMP	2INAPX3086	DEGF	757.3	757.2	757.2	757.2	757.2	757.3	757.3	757.1	757.1
TEMPS STM/WTR											
ECON INLET WATER TEMP	2COAXI025A	DEGF	546.1	545.4	545.5	545.6	545.2	545.5	545.7	545.2	545.2
	2FWATE0990	DEGF	545.8	545.1	545.3	545.5	545.0	545.2	545.5	544.9	545.0
TSAT AT DRUM PRESSURE	2SGAPX3261	DEGF	668.0	668.6	669.4	669.7	669.3	668.7	668.8	668.9	669.2
1ST STAGE SH ATTEMP INLET T	2SGATE0863	DEGF	741.2	748.6	744.8	733.0	727.0	724.6	724.1	717.8	724.1
	2SGATE0864	DEGF	738.9	751.1	735.8	728.9	735.9	730.7	727.1	725.5	728.9
1ST STAGE SH ATTEMP OUTLET T	2COAXI098A	DEGF	716.4	717.8	715.1	714.7	713.1	716.9	716.0	712.1	717.3
	2COAXI099A	DEGF	718.8	725.8	715.5	712.8	720.9	718.0	714.2	713.5	715.9
2ND STAGE SH ATTEMP INLET T	2SGATE0871	DEGF	791.2	792.6	794.8	786.0	779.5	795.9	799.7	780.6	799.8
	2SGATE0872	DEGF	798.7	810.3	779.6	776.4	797.9	803.5	799.3	797.8	801.3
2ND STAGE SH ATTEMP OUTLET T	2COAXI093A	DEGF	766.1	768.4	766.5	766.3	760.2	766.3	761.4	754.1	768.0
	2COAXI094A	DEGF	769.6	780.8	778.2	776.6	785.4	766.6	756.0	764.1	762.9
SSH INT BANK OUTLET TEMP	2SGAPE0008	DEGF	916.4	925.6	917.7	915.0	923.7	922.8	922.0	915.1	921.6
MAIN STEAM TEMP	2COAXI015A	DEGF	1,003.7	1,006.9	996.2	989.8	1,001.8	1,006.4	1,006.6	1,003.0	1,005.6
COLD REHEAT INLET TEMP	2SGJTE0019	DEGF	637.4	640.0	630.3	624.3	635.9	639.4	639.5	636.3	638.5
	2SGJTE0022	DEGF	638.4	640.8	631.2	625.1	637.0	640.1	640.5	637.2	639.5
PRI RH SECTION STM OUT TEMP	2SGATE1637	DEGF	802.7	813.5	802.4	796.9	804.2	830.5	829.7	814.1	827.3
RH TURBINE INLET TEMP EAST	2COAXI104A	DEGF	1,008.8	1,018.7	996.9	979.3	1,008.9	1,009.3	1,006.7	1,005.2	1,009.0
RH TURBINE INLET TEMP WEST	2COAXI105A	DEGF	1,000.6	1,009.3	986.8	971.5	1,003.0	1,002.1	1,000.6	999.7	1,003.2
BLR HOT REHEAT AVE TEMP	2COAXI046A	DEGF	1,008.1	1,017.4	995.1	978.7	1,009.3	1,009.0	1,006.9	1,005.9	1,009.2
STEAM TEMP PICKUP											
DRUM THRU PSH	2SGAPE0001	DEGF	71.9	81.4	71.5	61.6	62.0	59.1	57.2	53.0	58.2
PLATENS	2SGAPE0002	DEGF	77.3	79.8	71.8	67.4	71.8	82.4	84.6	76.4	84.1
SSH INT BANK	2SGAPE0003	DEGF	148.5	150.9	145.1	143.4	151.0	156.4	163.3	156.2	156.1

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start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
SSH OUT BANK	2SGAPE0004	DEGF	87.2	81.3	78.7	74.9	78.0	83.6	84.4	87.9	84.0
PRI RH SECTION	2SGAPE0005	DEGF	164.5	173.0	171.7	172.2	167.7	190.8	189.9	177.3	188.4
RH OUTLET SECTION	2SGAPE0006	DEGF	202.1	200.6	189.5	178.5	201.8	174.6	173.9	188.3	178.9
FLOWS WTR/STM											
FEEDWATER FLOW (FOX 1A PT)	2FWAFT0025	KPPH	6389.5	6304.2	6458.6	6616.9	6486.4	6414.5	6389.7	6431.6	6397.1
FEEDWATER FLOW (CCS PT)	2COAXI021A	KPPH	5896.0	5803.2	5969.3	6136.9	5997.9	5922.3	5896.8	5941.1	5902.4
STEAM FLOW (FFW + SPRAYS)	2COAXI023A	KPPH	6234.6	6158.1	6270.0	6364.2	6226.4	6218.7	6237.3	6223.0	6209.3
STEAM FLOW OFF 1ST STG PR	2COAXI024A	KPPH	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
PMAX THROTTLE FLOW	2FWAPX3352	KPPH	6427.4	6353.5	6460.9	6539.5	6393.1	6383.2	6410.5	6384.8	6366.7
ECON OUTLET											
EAST ECON O2 PROBE 1A	2SGAAZ0030	%	3.2	3.9	2.6	2.0	2.8	2.4	2.6	2.6	1.8
EAST ECON O2 PROBE 2A	2SGAAZ0031	%	3.5	4.2	2.2	2.5	3.6	3.0	3.2	3.4	2.5
EAST ECON O2 PROBE 3A	2SGAAZ0032	%	4.4	4.7	3.1	3.6	4.4	3.8	3.6	4.2	3.4
EAST ECON O2 PROBE 4A	2SGAAZ0033	%	3.5	3.4	4.0	3.7	4.9	4.2	3.9	4.5	3.8
EAST FLUE GAS O2	2COAXI079A	%	3.5	3.9	2.8	2.8	3.7	3.2	3.2	3.5	2.7
WEST ECON O2 PROBE 1B	2SGAAZ0034	%	4.1	3.6	5.0	3.8	4.5	4.1	4.0	4.0	3.7
WEST ECON O2 PROBE 2B	2SGAAZ0035	%	3.8	3.8	5.0	4.1	3.2	3.1	3.3	2.6	3.0
WEST ECON O2 PROBE 3B	2SGAAZ0036	%	2.1	2.5	3.1	3.5	2.3	2.6	2.8	1.9	2.6
WEST ECON O2 PROBE 4B	2SGAAZ0037	%	2.4	2.4	2.2	3.2	2.8	3.1	3.2	2.1	3.0
WEST FLUE GAS O2	2COAXI080A	%	2.7	2.7	3.3	3.4	3.1	3.1	3.2	2.5	3.0
SELECTED ECON OUT O2	2COAXI187A	%	3.1	3.3	3.0	3.1	3.4	3.2	3.2	3.0	2.8
TARGET ECON OUT O2	2COAXI188A	%	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
EXCESS AIR %	2SGBPX3512	%	16.9	13.7	13.8	14.0	14.2	15.6	15.4	15.0	14.8
CARBON DIOXIDE %	2SGBPX3513	%	21.7	20.9	21.1	21.4	21.8	21.4	21.5	21.6	21.7
AIR/DRAFT PRESSURE											
SEC AIR DUCT PR E	2SGBPT0256	INWC	3.3	3.2	4.7	2.1	2.4	2.5	2.4	2.3	2.4
SEC AIR DUCT PR W	2SGBPT0257	INWC	3.4	3.4	4.8	2.2	2.6	2.6	2.5	2.4	2.5
FURNACE PRESSURE	2COAXI083A	INWC	-0.5	-0.6	-0.6	-0.5	-0.6	-0.5	-0.5	-0.5	-0.5
SG EAST FLUE GAS PR	2SGAPT0171	INWC	-0.3	-0.3	-0.1	-0.1	-0.1	0.0	-0.2	-0.3	-0.4
SG SEC SUPHTR GAS PR	2SGAPT0169	INWC	-1.1	-1.0	-1.1	-1.0	-1.1	-1.1	-1.1	-1.1	-1.1
SG HORIZ RH OUT PR	2SGAPT0167	INWC	-2.7	-2.6	-2.7	-2.6	-2.7	-2.9	-2.9	-2.9	-2.9
SG PENDANT OUT PR	2SGAPT0168	INWC	-1.6	-1.5	-1.6	-1.5	-1.6	-1.5	-1.6	-1.6	-1.5
SG PRI SUPHTR OUT PR	2SGAPT0166	INWC	-2.6	-2.5	-2.6	-2.5	-2.6	-2.4	-2.5	-2.4	-2.4
SG ECON OUTLET PR	2SGAPT0165	INWC	-3.2	-3.1	-3.2	-3.1	-3.2	-3.0	-3.0	-2.9	-2.9
SEC AH 1A INLET PR	2SGAPT0164	INWC	-4.2	-4.2	-4.2	-4.1	-4.2	-3.9	-4.0	-3.9	-3.8
SEC AH 1B INLET PR	2SGAPT0183	INWC	-3.8	-3.8	-3.9	-3.7	-3.8	-3.5	-3.6	-3.5	-3.4
ID FAN SUCTION PRESS	2COAXI084A	INWC	-16.6	-16.3	-16.3	-16.2	-16.2	-15.8	-15.8	-15.5	-15.3
ID FAN 1A OUTLET PR	2CCEPT0115	INWC	4.1	3.9	4.0	3.9	4.0	4.1	4.1	4.2	4.2
ID FAN 1B OUTLET PR	2CCEPT0116	INWC	3.8	3.7	3.7	3.7	3.7	3.8	3.8	3.9	3.9

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start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
ID FAN 1C OUTLET PR	2CCEPT0117	INWC	3.8	3.6	3.7	3.8	3.8	3.9	3.9	4.0	4.2
ID FAN 1D OUTLET PR	2CCEPT0118	INWC	3.9	3.8	3.9	3.9	3.9	4.0	4.0	4.1	4.1
BAGHOUSE CASING DELTA P											
A CASING	2CCBA40001	INWC	6.3	6.2	6.1	6.2	6.1	6.1	6.1	6.1	6.0
B CASING	2CCBB40001	INWC	6.5	6.5	6.4	6.5	6.4	6.4	6.4	6.4	6.3
C CASING	2CCBC40001	INWC	6.3	6.1	5.9	6.1	5.9	6.0	6.1	6.0	5.9
FORCED DRAFT FAN 1A											
SEC AIR FLOW 1A	2COAXI076R	%	73.2	71.5	70.4	71.1	70.4	71.7	71.0	70.6	69.3
FD FAN 1A FLOW	2SGBFT0097	KCFM	847.4	817.1	814.8	817.1	813.0	817.6	810.6	810.6	811.2
FAN BLADE PITCH	2COAXI153A	%	55.7	52.5	59.8	51.0	51.5	51.5	51.3	51.7	52.3
FD FAN 1A D/P	2SGBPT0218	INWC	11.2	10.7	13.8	8.4	9.3	9.3	9.1	9.0	9.1
MOTOR AMPS	2SGBKK0005	AMPS	222.1	216.1	236.1	205.5	206.7	208.8	209.5	209.9	210.3
CORR ACTUAL HEAD	2SGBKV0111	INWC	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
AIR HORSEPOWER	CALC	HP	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
FORCED DRAFT FAN 1B											
SEC AIR FLOW 1B	2COAXI077R	%	73.5	71.2	70.5	71.0	70.7	72.0	71.4	70.7	69.8
FD FAN 1B FLOW	2SGBFT0098	KCFM	740.7	707.0	744.2	703.8	701.6	711.2	704.8	709.2	707.5
FAN BLADE PITCH	2COAXI154A	%	55.0	52.3	59.8	50.6	51.3	51.3	51.0	51.1	51.5
FD FAN 1B D/P	2SGBPT0219	INWC	11.0	10.3	13.3	8.3	8.9	9.1	9.0	8.9	8.9
MOTOR AMPS	2SGBKK0006	AMPS	214.5	208.4	226.0	201.3	202.9	203.7	204.6	205.2	206.1
CORR ACTUAL HEAD	2SGBKV0112	INWC	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
AIR HORSEPOWER	CALC	HP	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
PRI AIR DUCT PRESS	2COAXI072A	INWC	43.8	44.0	43.8	43.6	43.7	44.2	44.2	44.0	43.9
PRIMARY AIR FAN 2A											
PA FAN FLOW 2A	2COAXI074R	%	32.0	33.4	33.3	33.5	33.4	32.1	32.1	32.0	31.9
MOTOR AMPS	2SGBKK0007	AMPS	205.0	209.0	209.6	211.1	210.9	205.3	206.0	206.7	207.5
INLET VANE CONTROL POSITION	2COAXI239A	%	70.6	70.6	73.4	76.7	77.2	67.2	70.4	74.7	78.4
PRIMARY AIR FAN 2B											
PA FAN FLOW 2B	2COAXI075R	%	36.2	37.3	37.2	37.1	36.9	36.1	36.0	35.5	35.5
MOTOR AMPS	2SGBKK0008	AMPS	206.9	211.4	211.9	212.8	212.6	207.3	208.4	208.8	209.3
INLET VANE CONTROL POSITION	2COAXI240A	%	71.3	71.3	74.1	77.1	77.7	67.9	71.0	75.0	78.8
SECONDARY AIR HEATER 1A											
AIR ENT SEC AH 1A	2COAXI124A	DEGF	62.0	59.6	65.1	67.6	69.2	59.8	64.1	71.5	77.9
AIR LVG SEC AH 1A	2COAXI149A	DEGF	685.0	710.6	703.7	693.6	700.1	701.1	700.6	696.3	689.8
GAS ENT SEC AH 1A	2SGATE1650	DEGF	745.5	768.4	764.1	751.1	753.4	761.2	760.1	753.2	745.3
GAS LVG SEC AH 1A	2COAXI122A	DEGF	282.2	294.8	298.3	297.0	301.0	282.4	289.8	293.0	299.4
FLUE GAS TEMP DROP	CALC	DEGF	463.2	473.6	465.9	454.1	452.4	478.8	470.2	460.2	445.9

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start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
AIR HEATER TEMP HEAD	CALC	DEGF	683.5	708.8	699.0	683.5	684.2	701.4	696.0	681.7	667.3
DROP/HEAD	CALC	%	67.8	66.8	66.6	66.4	66.1	68.3	67.6	67.5	66.8
SAH 1A EFFICIENCY - AIR SIDE	2SGBPX3525	%	92.0	92.5	92.5	92.3	92.4	91.6	92.0	91.9	92.2
SAH 1A EFFICIENCY - GAS SIDE	2SGBPX3526	%	63.4	63.3	62.3	61.7	61.8	64.3	63.7	63.7	62.3
SAH 1A AIR TO GAS LEAKAGE	2SGBPX3527	%	14.3	11.5	14.0	15.0	13.0	13.6	12.9	12.7	14.8
SAH 1A LEAKAGE (O2 METHOD)	2SGBPX3927	%	14.3	11.4	14.0	15.0	12.9	13.5	12.9	12.7	14.7
COLD END AVE TEMP	2SGBKV0008	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0216	INWC	5.2	5.0	5.1	5.2	5.1	4.8	4.8	4.8	4.9
MOTOR AMPS	2SGBKK0001	AMPS	48.1	48.0	47.7	47.4	47.4	47.9	47.8	47.4	47.1
SECONDARY AIR HEATER 1B											
AIR ENT SEC AH 1B	2COAXI125A	DEGF	63.0	59.6	65.6	68.7	70.2	60.1	64.3	71.7	78.3
AIR LVG SEC AH 1B	2COAXI150A	DEGF	685.3	708.8	704.5	694.0	696.7	695.6	697.0	692.4	687.7
GAS ENT SEC AH 1B	2SGATE1651	DEGF	690.6	715.4	704.7	694.9	701.5	704.9	702.2	695.4	688.0
GAS LVG SEC AH 1B	2COAXI123A	DEGF	283.7	294.9	296.4	296.8	300.5	287.3	290.9	294.8	299.1
FLUE GAS TEMP DROP	CALC	DEGF	406.9	420.5	408.3	398.1	401.0	417.6	411.2	400.6	388.8
AIR HEATER TEMP HEAD	CALC	DEGF	627.6	655.8	639.1	626.2	631.3	644.8	637.9	623.8	609.7
DROP/HEAD	CALC	%	64.8	64.1	63.9	63.6	63.5	64.8	64.5	64.2	63.8
SAH 1B EFFICIENCY - AIR SIDE	2SGBPX3530	%	100.5	100.8	101.2	101.1	101.2	101.0	101.4	101.5	101.7
SAH 1B EFFICIENCY - GAS SIDE	2SGBPX3531	%	61.9	61.5	61.9	61.8	61.6	62.9	62.8	61.5	61.7
SAH 1B AIR TO GAS LEAKAGE	2SGBPX3532	%	8.8	8.2	5.7	5.2	5.5	5.7	5.0	8.2	6.3
SAH 1B LEAKAGE (O2 METHOD)	2SGBPX3930	%	8.8	8.2	5.7	5.1	5.5	5.6	5.0	8.3	6.3
COLD END AVE TEMP	2SGBKV0009	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0217	INWC	5.5	5.6	5.4	5.5	5.5	5.1	5.1	5.1	5.1
MOTOR AMPS	2SGBKK0002	AMPS	29.3	29.5	29.3	29.1	29.2	29.0	28.9	28.9	28.8
PRIMARY AIR HEATER 2A											
AIR ENT PRI AH 2A	2SGBTE0911	DEGF	81.4	78.2	82.4	86.3	88.3	79.8	85.2	93.0	98.9
AIR LVG PRI AH 2A	2SGBTE0917	DEGF	536.6	547.1	547.4	543.5	542.8	548.1	542.3	538.5	534.8
GAS ENT PRI AH 2A	2SGATE1650	DEGF	745.5	768.4	764.1	751.1	753.4	761.2	760.1	753.2	745.3
GAS LVG PRI AH 2A	2COAXI120A	DEGF	299.8	298.8	301.6	301.2	292.8	309.0	302.5	302.1	300.9
FLUE GAS TEMP DROP	CALC	DEGF	236.8	248.3	245.9	242.3	250.0	239.0	239.8	236.4	233.9
AIR HEATER TEMP HEAD	CALC	DEGF	536.6	547.1	547.4	543.5	542.8	548.1	542.3	538.5	534.8
DROP/HEAD	CALC	%	44.1	45.4	44.9	44.6	46.1	43.6	44.2	43.9	43.7
PAH 2A EFFICIENCY - AIR SIDE	2SGBPX3535	%	68.6	67.8	68.3	68.7	68.4	68.7	67.7	67.5	67.5
PAH 2A EFFICIENCY - GAS SIDE	2SGBPX3536	%	67.1	68.1	67.8	67.7	69.3	66.4	67.7	68.4	68.8
COLD END AVE TEMP	2SGBKV0006	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0214	INWC	2.9	2.7	2.7	2.5	2.3	3.4	3.2	3.0	2.7
MOTOR AMPS	2SGBKK0003	AMPS	3.0	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1
PRIMARY AIR HEATER 2B											
AIR ENT PRI AH 2B	2SGBTE0912	DEGF	80.8	77.3	81.4	87.1	89.1	78.2	83.1	91.2	98.7
AIR LVG PRI AH 2B	2SGBTE0918	DEGF	522.6	530.2	530.4	525.6	523.7	522.4	519.4	518.1	515.3
GAS ENT PRI AH 2B	2SGATE0710	DEGF	753.5	783.6	766.8	756.3	769.9	772.2	768.2	763.0	750.6

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PARAMETER	PT ID	UNITS	Test 9	Test 10	Test 11	Test 12	Test 13	Test 14	Test 15	Test 16	Test 17
start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
GAS LVG PRI AH 2B	2COAXI121A	DEGF	301.7	299.8	302.3	302.7	294.3	304.8	303.0	302.8	301.7
FLUE GAS TEMP DROP	CALC	DEGF	220.8	230.4	228.1	222.9	229.4	217.6	216.3	215.2	213.6
AIR HEATER TEMP HEAD	CALC	DEGF	522.6	530.2	530.4	525.6	523.7	522.4	519.4	518.1	515.3
DROP/HEAD	CALC	%	42.3	43.5	43.0	42.4	43.8	41.7	41.7	41.5	41.4
PAH 2B EFFICIENCY - AIR SIDE	2SGBPX3540	%	72.5	70.9	72.0	72.1	71.0	70.9	70.5	70.5	70.7
PAH 2B EFFICIENCY - GAS SIDE	2SGBPX3541	%	63.7	65.1	64.6	64.5	66.5	63.8	64.5	65.1	65.6
COLD END AVE TEMP	2SGBKV0007	DEGF	No Good Dat	No Good Dat	No Good Dat	No Good Dat	No Good Dat	No Good Dat	No Good Dat	No Good Dat	No Good Dat
DIFFERENTIAL PRESS	2SGBPT0215	INWC	3.3	3.1	3.0	3.0	2.7	3.7	3.6	3.4	3.1
MOTOR AMPS	2SGBKK0004	AMPS	3.2	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2
TOTAL AH LKG (CO2 METHOD)	2SGBPX3933	%	11.6	10.3	12.3	11.2	10.2	11.5	10.3	12.5	12.7
TOTAL AH LKG (GAS WT METH)	2SGBPX3936	%	11.5	9.8	9.8	9.9	9.0	9.5	8.8	10.4	10.4
TOTAL AH LKG (O2 METHOD)	2SGBPX3940	%	11.4	9.7	9.7	9.9	9.0	9.4	8.8	10.4	10.4
INDUCED DRAFT FAN 1A											
XFMR 1A1 AMPS	2CCEKK0001	AMPS	115.4	114.9	115.2	115.5	115.7	116.4	115.9	114.9	113.7
XFMR 1A2 AMPS	2CCEKK0002	AMPS	267.4	263.8	265.0	264.3	262.6	259.8	260.2	260.2	260.1
ID FAN 1A SPEED	2COAXI086A	RPM	712.6	704.4	708.8	705.7	705.6	692.7	695.5	693.0	693.7
INDUCED DRAFT FAN 1B											
XFMR 1B1 AMPS	2CCEKK0003	AMPS	267.2	263.7	264.3	263.8	262.0	258.7	259.1	259.3	259.0
XFMR 1B2 AMPS	2CCEKK0004	AMPS	255.6	280.2	281.5	280.3	278.7	278.6	279.6	278.1	276.7
ID FAN 1B SPEED	2COAXI087A	RPM	713.2	704.9	709.4	706.5	706.3	693.7	696.7	694.3	695.3
INDUCED DRAFT FAN 1C											
XFMR 1C1 AMPS	2CCEKK0005	AMPS	301.9	287.7	290.3	289.4	287.0	285.3	286.8	284.8	284.6
XFMR 1C2 AMPS	2CCEKK0006	AMPS	236.2	233.6	235.7	233.5	233.5	233.3	233.5	232.1	229.9
ID FAN 1C SPEED	2COAXI088A	RPM	706.1	698.5	702.7	699.9	699.6	687.6	690.5	688.0	688.9
INDUCED DRAFT FAN 1D											
XFMR 1D1 AMPS	2CCEKK0007	AMPS	237.6	234.5	236.3	234.0	234.3	233.2	233.7	232.5	230.6
XFMR 1D2 AMPS	2CCEKK0008	AMPS	232.0	225.5	226.1	225.1	222.3	222.7	224.1	219.8	219.0
ID FAN 1D SPEED	2COAXI089A	RPM	626.0	620.2	624.0	621.3	620.9	611.5	612.9	612.2	612.7
TOTAL ID FAN AMPS	CALC	AMPS	1913.1	1904.0	1914.4	1905.8	1896.0	1888.0	1892.9	1881.7	1873.7
COAL PULVERIZER 1A											
PULV COAL FLOW	2COAXI002A	TPH	43.2	43.2	43.3	43.4	42.8	44.2	44.4	43.9	43.3
FEEDER SPEED	2SGAPEFDRA	%	63.5	63.4	63.7	63.9	63.0	65.1	65.4	64.7	63.8
PULV PA FLOW	2COAXI056A	%	87.3	87.3	87.4	87.4	87.1	87.8	87.9	87.7	87.4
PA DAMPER POS	2COAKS021A	%	76.4	76.7	76.3	76.6	76.0	77.8	77.6	77.5	77.1
PULV INLET TEMP	2SGATE0639	DEGF	279.2	276.0	275.6	274.7	274.1	322.8	326.4	312.7	297.5
PULV DISCH TEMP	2COAXI064A	DEGF	149.2	149.3	149.1	149.4	149.3	149.2	149.7	149.6	149.2
PULV DIFF PRESS	2SGAPT0150	INWC	11.8	12.0	12.0	12.1	11.8	12.5	12.6	12.6	12.4

PARAMETER	PT ID	UNITS	Test 9	Test 10	Test 11	Test 12	Test 13	Test 14	Test 15	Test 16	Test 17
start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
PULV AMPS	2SGAKK0001	AMPS	61.1	57.9	57.8	57.8	57.6	61.4	61.4	60.5	59.5
AMPS/DP	CALC		5.16	4.81	4.80	4.79	4.87	4.91	4.89	4.81	4.82
TPH/AMPS	CALC		0.71	0.75	0.75	0.75	0.74	0.72	0.72	0.73	0.73
TPH/DP	CALC		11.84	12.03	12.05	12.06	11.84	12.51	12.57	12.57	12.35
COAL PULVERIZER 1B											
PULV COAL FLOW	2COAXI003A	TPH	44.1	43.7	43.8	43.9	43.8	45.1	45.3	44.8	44.2
FEEDER SPEED	2SGAPEFDRB	%	64.7	64.2	64.5	64.6	64.4	66.5	66.5	65.7	65.1
PULV PA FLOW	2COAXI057A	%	84.5	100.0	100.0	100.0	100.0	85.2	85.3	85.0	84.6
PA DAMPER POS	2COAKS022A	%	64.8	38.0	37.9	32.7	32.3	65.7	65.3	64.8	64.5
PULV INLET TEMP	2SGATE0640	DEGF	309.1	259.3	264.3	220.8	194.4	349.4	342.3	321.2	314.5
PULV DISCH TEMP	2COAXI065A	DEGF	152.4	151.5	151.5	133.0	104.9	152.3	153.0	152.3	152.2
PULV DIFF PRESS	2SGAPT0151	INWC	9.3	13.9	14.2	13.7	14.8	12.8	12.8	12.6	12.3
PULV AMPS	2SGAKK0002	AMPS	58.8	53.4	53.2	54.0	55.2	58.6	58.5	58.1	57.6
AMPS/DP	CALC		6.33	3.83	3.73	3.95	3.73	4.58	4.57	4.61	4.68
TPH/AMPS	CALC		0.75	0.82	0.82	0.81	0.79	0.77	0.77	0.77	0.77
TPH/DP	CALC		9.29	13.94	14.25	13.69	14.81	12.78	12.80	12.63	12.31
COAL PULVERIZER 1C											
PULV COAL FLOW	2COAXI004A	TPH	46.4	46.4	46.6	46.7	46.0	47.5	47.7	47.2	46.6
FEEDER SPEED	2SGAPEFDRC	%	68.1	68.4	68.6	68.7	67.7	69.8	70.2	69.4	68.5
PULV PA FLOW	2COAXI058A	%	84.5	84.5	84.5	84.6	84.2	85.1	85.2	85.0	84.5
PA DAMPER POS	2COAKS023A	%	67.1	67.4	67.0	68.0	67.5	68.5	68.2	68.2	68.3
PULV INLET TEMP	2SGATE0641	DEGF	295.2	280.7	282.9	286.1	283.8	338.8	331.1	324.8	318.4
PULV DISCH TEMP	2COAXI066A	DEGF	149.1	149.1	149.2	149.2	148.7	149.3	149.1	149.1	149.1
PULV DIFF PRESS	2SGAPT0152	INWC	10.0	10.4	10.3	10.5	10.2	10.7	10.7	10.8	10.6
PULV AMPS	2SGAKK0003	AMPS	64.9	63.4	63.4	63.4	63.6	64.6	64.9	65.4	64.9
AMPS/DP	CALC		6.51	6.09	6.17	6.07	6.22	6.01	6.05	6.09	6.10
TPH/AMPS	CALC		0.72	0.73	0.73	0.74	0.72	0.74	0.74	0.72	0.72
TPH/DP	CALC		9.97	10.41	10.28	10.45	10.23	10.73	10.72	10.75	10.64
COAL PULVERIZER 1D											
PULV COAL FLOW	2COAXI005A	TPH	43.7	43.7	43.8	44.0	43.3	44.8	44.9	44.5	43.9
FEEDER SPEED	2SGAPEFDRD	%	64.4	64.3	64.5	64.6	63.7	65.8	66.2	65.4	64.6
PULV PA FLOW	2COAXI059A	%	70.0	70.9	70.2	70.6	69.8	71.8	72.2	71.1	70.2
PA DAMPER POS	2COAKS024A	%	62.9	62.3	62.3	63.0	63.0	64.1	64.4	64.0	63.9
PULV INLET TEMP	2SGATE0642	DEGF	297.2	332.6	299.5	297.8	293.6	338.8	329.6	331.3	328.4
PULV DISCH TEMP	2COAXI067A	DEGF	149.1	150.3	149.4	149.6	149.3	149.5	149.2	149.6	149.3
PULV DIFF PRESS	2SGAPT0153	INWC	8.2	8.0	8.1	8.3	8.1	8.6	8.7	8.7	8.5
PULV AMPS	2SGAKK0004	AMPS	68.0	67.9	67.2	67.3	67.3	67.5	67.4	67.4	67.6
AMPS/DP	CALC		8.28	8.49	8.27	8.09	8.28	7.89	7.74	7.75	7.95
TPH/AMPS	CALC		0.64	0.64	0.65	0.65	0.64	0.66	0.67	0.66	0.65
TPH/DP	CALC		8.22	8.01	8.13	8.32	8.13	8.56	8.71	8.70	8.50

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PARAMETER	PT ID	UNITS	Test 9	Test 10	Test 11	Test 12	Test 13	Test 14	Test 15	Test 16	Test 17
start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
COAL PULVERIZER 1E											
PULV COAL FLOW	2COAXI006A	TPH	44.3	44.3	44.4	44.5	43.9	45.3	45.4	44.9	44.4
FEEDER SPEED	2SGAPEFDRE	%	65.1	65.1	65.5	65.6	64.5	66.6	66.8	65.8	65.1
PULV PA FLOW	2COAXI060A	%	85.2	89.5	89.5	89.6	89.2	85.9	86.0	85.7	85.3
PA DAMPER POS	2COAKS025A	%	71.4	73.7	73.8	74.0	73.5	72.3	72.0	71.1	71.2
PULV INLET TEMP	2SGATE0643	DEGF	298.8	284.6	284.7	288.4	283.5	300.7	298.3	298.4	292.2
PULV DISCH TEMP	2COAXI068A	DEGF	154.3	153.1	152.8	153.8	152.3	153.3	154.6	150.5	154.3
PULV DIFF PRESS	2SGAPT0154	INWC	12.2	13.0	13.0	13.0	12.8	12.8	12.9	12.5	12.5
PULV AMPS	2SGAKK0005	AMPS	62.7	60.8	61.5	61.0	60.9	62.2	61.8	62.4	61.8
AMPS/DP	CALC		5.13	4.69	4.73	4.70	4.78	4.85	4.79	4.99	4.96
TPH/AMPS	CALC		0.71	0.73	0.72	0.73	0.72	0.73	0.73	0.72	0.72
TPH/DP	CALC		12.23	12.97	13.00	12.98	12.76	12.82	12.90	12.50	12.46
COAL PULVERIZER 1F											
PULV COAL FLOW	2COAXI007A	TPH	43.8	43.8	43.9	44.1	43.4	44.8	45.0	44.5	43.9
FEEDER SPEED	2SGAPEFDRF	%	64.3	64.5	64.5	64.7	63.9	66.0	66.2	65.5	64.6
PULV PA FLOW	2COAXI061A	%	84.5	84.5	84.5	84.6	84.2	85.1	85.2	84.9	84.5
PA DAMPER POS	2COAKS026A	%	68.0	67.6	67.8	67.9	67.3	69.2	69.3	68.7	68.2
PULV INLET TEMP	2SGATE0644	DEGF	324.4	305.2	308.5	307.5	305.3	344.6	349.9	346.4	342.2
PULV DISCH TEMP	2COAXI069A	DEGF	149.7	150.0	150.0	150.0	149.9	149.9	150.0	150.1	150.1
PULV DIFF PRESS	2SGAPT0155	INWC	12.4	12.4	12.3	12.4	12.1	13.7	13.2	13.1	12.6
PULV AMPS	2SGAKK0006	AMPS	62.2	59.8	59.8	59.8	59.6	60.9	61.8	62.0	60.9
AMPS/DP	CALC		5.00	4.82	4.85	4.83	4.91	4.45	4.67	4.75	4.83
TPH/AMPS	CALC		0.70	0.73	0.73	0.74	0.73	0.74	0.73	0.72	0.72
TPH/DP	CALC		12.44	12.40	12.31	12.38	12.14	13.68	13.22	13.05	12.59
COAL PULVERIZER 1G											
PULV COAL FLOW	2COAXI008A	TPH	44.0	44.0	44.1	44.3	43.6	45.1	45.3	44.8	44.1
FEEDER SPEED	2SGAPEFDRG	%	64.7	65.0	64.9	65.1	64.2	66.2	66.8	65.8	64.9
PULV PA FLOW	2COAXI062A	%	85.1	85.1	85.1	85.2	84.8	85.7	85.9	85.5	85.2
PA DAMPER POS	2COAKS027A	%	68.6	67.5	67.8	67.5	67.0	69.0	68.7	68.5	68.8
PULV INLET TEMP	2SGATE0645	DEGF	318.2	295.7	295.7	296.6	294.6	362.0	359.7	355.9	341.4
PULV DISCH TEMP	2COAXI070A	DEGF	149.8	150.0	149.9	149.6	149.7	149.7	149.7	149.7	150.0
PULV DIFF PRESS	2SGAPT0156	INWC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PULV AMPS	2SGAKK0007	AMPS	59.5	60.0	60.3	60.3	59.9	60.6	62.5	62.2	60.3
AMPS/DP	CALC		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
TPH/AMPS	CALC		0.74	0.73	0.73	0.73	0.73	0.74	0.72	0.72	0.73
TPH/DP	CALC		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
COAL PULVERIZER 1H											
PULV COAL FLOW	2COAXI009A	TPH	43.5	43.5	43.6	43.7	43.0	44.5	44.7	44.1	43.5
FEEDER SPEED	2SGAPEFDRH	%	63.9	64.0	64.0	64.3	63.2	65.6	65.6	65.0	63.9
PULV PA FLOW	2COAXI063A	%	84.5	84.5	84.5	84.6	84.2	85.1	85.2	84.9	84.5
PA DAMPER POS	2COAKS028A	%	85.7	85.0	85.1	85.5	85.2	86.6	86.8	86.2	86.2

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start time			4/22/04 15:15	4/23/04 10:15	4/23/04 11:30	4/23/04 13:15	4/23/04 14:30	4/26/04 9:15	4/26/04 10:30	4/26/04 12:30	4/26/04 14:45
end time			4/22/04 16:00	4/23/04 10:45	4/23/04 12:15	4/23/04 14:00	4/23/04 15:00	4/26/04 10:00	4/26/04 11:00	4/26/04 13:00	4/26/04 15:45
PULV INLET TEMP	2SGATE0646	DEGF	324.6	309.9	311.7	312.8	310.6	367.1	369.0	364.8	339.9
PULV DISCH TEMP	2COAXI071A	DEGF	150.2	150.8	150.5	150.5	150.3	150.5	150.7	150.6	150.5
PULV DIFF PRESS	2SGAPT0157	INWC	10.0	9.2	9.1	9.2	9.0	9.8	10.0	9.8	9.5
PULV AMPS	2SGAKK0008	AMPS	60.8	59.6	59.8	59.6	59.6	61.2	61.6	61.5	61.0
AMPS/DP	CALC		6.06	6.46	6.54	6.47	6.61	6.22	6.19	6.26	6.44
TPH/AMPS	CALC		0.72	0.73	0.73	0.73	0.72	0.73	0.72	0.72	0.71
TPH/DP	CALC		10.04	9.22	9.14	9.22	9.00	9.84	9.95	9.83	9.47
PULV AMP SWING											
A PULV	CALC	AMPS	9.36	7.39	9.53	9.57	9.20	8.45	7.82	8.04	7.88
B PULV	CALC	AMPS	7.80	9.47	10.75	10.12	8.67	9.12	8.75	8.33	10.20
C PULV	CALC	AMPS	11.80	10.14	11.35	9.77	9.69	10.96	9.41	10.12	12.96
D PULV	CALC	AMPS	16.73	14.64	13.95	12.37	12.31	13.50	12.17	11.63	10.78
E PULV	CALC	AMPS	11.52	10.06	10.73	9.06	10.38	12.17	13.31	11.46	12.40
F PULV	CALC	AMPS	11.99	9.67	10.42	9.06	9.12	13.96	12.66	11.89	12.34
G PULV	CALC	AMPS	13.64	13.01	12.21	12.70	12.46	14.51	12.91	13.27	13.23
H PULV	CALC	AMPS	7.63	10.04	10.30	8.73	8.96	8.88	8.41	9.00	8.35
CLEANLINESS FACTOR											
WATERWALLS	2SGAPX3577		0.77	0.74	0.78	0.82	0.80	0.82	0.82	0.83	0.81
PSH SECTION	2SGAPX3628		0.88	0.85	0.84	0.81	0.82	0.81	0.81	0.83	0.88
SSH PLATEN SECTION	2SGAPX3587		0.92	0.89	0.89	0.89	0.90	1.02	1.07	0.99	1.05
SSH INTERMEDIATE SECTION	2SGAPX3598		0.74	0.71	0.71	0.76	0.78	0.86	0.91	0.87	0.83
SSH OUTLET SECTION	2SGAPX3608		0.66	0.57	0.58	0.60	0.62	0.71	0.74	0.78	0.71
PRIMARY RH SECTION	2SGAPX3648		0.86	0.84	0.85	0.84	0.82	0.84	0.85	0.82	0.88
RH OUTLET SECTION	2SGAPX3618		0.83	0.74	0.72	0.73	0.86	0.80	0.82	0.93	0.82
ECONOMIZER SECTION	2SGAPX3638		0.86	0.72	0.75	0.84	0.81	0.73	0.73	0.73	0.78
MAIN STEAM PRESSURE	2COAXI012A	PSIG	2211.59	2222.44	2225.15	2222.19	2231.24	2219.39	2218.77	2221.42	2223.23
CRH Inlet	2SGJPT0012	PSIG	566.67	562.51	565.95	568.42	564.49	563.49	564.18	563.08	562.89
HRH Outlet	2SGJPT0006	PSIG	528.63	524.72	527.91	530.14	526.57	525.49	526.12	525.12	524.84
HRH Outlet	2SGJPT0007	PSIG	527.30	523.45	526.65	528.90	525.34	524.21	524.86	523.85	523.57
Delta P CRH to HRH	calc		38.70	38.42	38.67	38.90	38.54	38.65	38.69	38.59	38.69
MAIN STEAM CHEST PRESSURE	2TGAPT0040	PSIG	2179.24	2189.30	2192.05	2188.95	2198.87	2186.81	2185.99	2188.70	2190.27
1ST STAGE INLET	2COAXI042S	PSIG	2119.32	2097.96	2121.83	2143.26	2113.99	2111.73	2114.37	2109.33	2105.91
Turbine Valve Position	2TGFPE0037	% open	39.61	33.39	36.69	47.67	34.35	36.28	36.56	34.94	34.44

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U2 Burner Setup & Tuning (new ABT burners & BPI overfire air) follc

PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
Test Conditions:			burner settings 9" OR, 3.75" spin, 4th hole inner	burner settings 9" OR, 3.75" spin, 4th hole inner	burner settings calc #1 OR, 3.75" spin, 4th hole inner	burner settings calc #1 OR, 3.75" spin, 4th hole inner	burner settings calc #1 OR, 3.75" spin, 4th hole inner	burner settings calc #1 OR, 3.75" spin, 4th hole inner	burner settings calc #1 OR, 3.75" spin, 4th hole inner	burner settings calc #1 OR, 3.75" spin, 4th hole inner	burner settings calc #2 OR, 3.75" spin, 4th hole inner
GROSS CAPACITY Load, net	COAXI027A	MW	858.94	938.78	930.77	950.07	950.12	949.94	950.02	950.50	950.50
Pulv Status			F pulv o/s	All pulv I/s	All pulv I/s	C Pulv o/s	D Pulv o/s	E Pulv o/s	A Pulv o/s	H Pulv o/s	H Pulv o/s
BOILER											
BOILER EFF (HL Method)	2SGAPX3550	%	89.72	89.13	89.09	89.17	89.50	89.57	89.45	89.70	89.09
BOILER EFF (Input-Output Method)	2SGAPX3561	%	87.13	88.93	89.58	89.30	91.17	91.33	90.86	90.68	91.51
BLOWDOWN FLOW	2SGAPE116F	KPPH	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
SH SPRAY FLOW	2COAXI022A	KPPH	178.66	112.59	130.20	123.35	134.70	172.84	114.67	114.86	120.38
PMAX SH SPRAY FLOW	2SGAPX3033	KPPH	160.05	119.21	142.10	121.79	129.62	188.52	115.76	112.19	146.58
RH SPRAY FLOW	2COAXI108A	KPPH	0.00	0.00	0.00	0.01	0.00	0.13	0.00	0.02	0.00
PMAX RH SPRAY FLOW	2SGAPX3918	KPPH	63.13	65.27	67.51	0.00	0.00	1.95	5.23	18.74	23.90
TOTAL AIR FLOW	2COAXI078S	%	75.4	80.2	80.1	83.5	83.0	80.1	80.1	83.2	83.2
EXCESS AIR (CALC'D)	2SGBPX3512	%	15.99	16.66	16.14	16.02	15.15	18.35	17.92	13.57	17.09
TOTAL FUEL FLOW	2COAXI001A	TPH	343.2	370.8	364.2	372.4	367.1	367.7	365.0	365.4	365.0
PMAX BACKCALC COAL FLOW	2SGAPX3504	TPH	322.6	363.2	359.5	366.7	365.8	363.2	363.0	361.6	367.4
REHEAT DAMPER POS	2COAXI136A	%	96.6	59.5	71.6	59.0	94.6	47.4	47.2	91.9	98.1
SUPERHEAT DAMPER POS	2COAXI135A	%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
BOILER DUTY (HEAT INPUT)	CALC	MBTU/HR	7884	8517	8365	8555	8431	8445	8385	8392	8384
COAL..AS-FIRED											
HHVC	9CHEKT0001	BTU/LB	11,485	11,485	11,485	11,485	11,485	11,485	11,485	11,485	11,485
% TOTAL MOISTURE	9CHEKT0005	%	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
% ASH	9CHEKT0006	%	9.24	9.24	9.24	9.24	9.24	9.24	9.24	9.24	9.24
% SULFUR	9CHEKT0007	%	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
% CARBON	9CHEKT0009	%	64.32	64.32	64.32	64.32	64.32	64.32	64.32	64.32	64.32
% HYDROGEN	9CHEKT0010	%	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58
% NITROGEN	9CHEKT0011	%	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
% OXYGEN	9CHEKT0012	%	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70	10.70
ASH											

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PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
FLY ASH LOI TOTAL	MANUAL	%									
FLY ASH LOI EAST	MANUAL	%									
FLY ASH LOI WEST	MANUAL	%									
BOILER CONDITIONS	Pulv O/s	manual	F pulv o/s	All pulv I/s	All pulv I/s	C Pulv o/s	D Pulv o/s	E Pulv o/s	A Pulv o/s	H Pulv o/s	H Pulv o/s
EAST FLUE GAS O2	2COAXI079A	%	2.6	2.7	2.7	3.0	2.6	3.6	3.1	2.9	2.8
EAST FLUE GAS O2 (GRID)	MANUAL	%	2.8	3.2	3.5	4.4	3.7	3.9	3.1	3.6	3.5
EAST FLUE GAS CO (GRID)	MANUAL	ppm	92.3	19.0	12.2	233.1	113.5	96.5	214.2	41.4	60.0
EAST FLUE GAS CO2 (GRID)	MANUAL	%	15.5	15.2	14.6	13.9	14.9	13 6	14.2	15.4	15.5
WEST FLUE GAS O2	2COAXI080A	%	2.9	2.9	3.2	2.8	2.4	2.5	2.8	2.2	3.6
WEST FLUE GAS O2 (GRID)	MANUAL	%	3.8	3.5	3.9	3.2	3.7	2.5	3.0	3.4	4.2
WEST FLUE GAS CO (GRID)	MANUAL	ppm	120.7	47.8	22.0	527 9	287.1	1228.6	859.9	303.7	78.3
WEST FLUE GAS CO2 (GRID)	MANUAL	%	14.3	14.6	14.2	14.7	14.5	15.2	14.8	15.2	14.6
SCRUB INLET SO2	2SAAKK0002	PPM	284.4	317.0	334.5	281.6	294.5	408.0	408.3	397.2	405.9
STACK NOX	2SAAKK0006	PPM	153.5	187.1	194.2	161.6	165.0	190.8	185.1	191.9	197.3
STACK NOX CONVERTED	2SAAKK0007	PPM	0.27	0.32	0.34	0.28	0.29	0.32	0.31	0.33	0.34
STACK CO	MANUAL	ppm		33.6	12.3	416.8	280.9	1011.5	639.2	161.7	86.0
STACK O2	MANUAL	%		5 6	5.8	5.6	5.5	5.2	5.3	5.7	5.8
O2 TRIM SETPOINT	2COAXI220A	%	54.98	53.22	55.47	58.07	59.51	54.36	55.56	60.48	60.48
CEM STACK VOL FLOW	2SAAKK0016	MSCFH	128.84	138.70	137.94	141.03	139.96	134.02	135.57	141.41	141.23
PMAX CALC STACK VOL FLOW	2SGAPX3903	MSCFH	123.74	135.63	133.96	139.40	134.09	136.66	135.04	131.61	136.40
PMAX BLR GAS FLOW	2SGAPX3520	LB/HR	7,359,254	8,008,047	7,908,039	8,074,831	7,781,136	8,020,430	7,919,689	7,785,555	8,042,359
PMAX BLR AIR FLOW RATE	2SGAPX3522	LB/HR	6,738,694	7,335,344	7,247,292	7,399,134	7,115,189	7,353,483	7,257,401	7,122,589	7,379,924
SCRUB INLET NOX	2SAAKK0010	PPM	166.38	199 84	208.91	172.53	174.69	202.07	198.45	199.44	207.94
SCRUB INLET SO2	2SAAKK0003	#/mbtu	0.66	0.72	0.77	0.66	0.68	0.91	0.91	0.93	0.93
U1 SCRUB INLET SO2	1SAAKK0002	PPM	307.75	333.36	353.82	321.79	329.52	431.54	428.48	412.97	426.87
U1 SCRUB INLET SO2	1SAAKK0003	#/mbtu	0.68	0.73	0.78	0.70	0.71	0.91	0.90	0.91	0.92
Scrub In CO2	2SAAKK0012	%	12.85	13.05	12.92	12.71	12.85	13.32	13.42	12.80	13.05
Stack CO2	2SAAKK0015	%	12.26	12.47	12.29	12.30	12.37	12.77	12.77	12.46	12.43
SA FLOW EAST %	2COAXI076R	%	68.59	72.66	72.51	76.39	75.65	73.21	73.23	76.27	76.12
SA FLOW West %	2COAXI077R	%	68.74	73.03	72.61	75.58	75.42	72.56	72.53	75.51	75.58
TOTAL AIR %	2COAXI078S	%	75.40	80.22	80.05	83.46	83.02	80.06	80.09	83.16	83.15
E WINDBOX PRESS	2SGAPT0176	psig	2.81	2.58	2.67	3.85	3.72	0.00	3.17	3.51	4.70
A WINDBOX PRESS	2SGAPT0175	psig	2.62	2.36	2.43	3.80	3.70	3.01	0.09	3.43	4.61
F WINDBOX PRESS	2SGAPT0174	psig	0.00	2.48	2.54	3.78	3.65	3.25	3.24	3.39	4.56
B WINDBOX PRESS	2SGAPT0173	psig	1.85	2.01	2.01	3.36	3.26	2.88	2.87	3.00	4.07
D WINDBOX PRESS	2SGAPT0180	psig	2.65	2.43	2.48	3.71	0.01	3.22	3.21	3.16	4.30
H WINDBOX PRESS	2SGAPT0179	psig	2.55	2.31	2.32	3.71	3.37	3.16	3.15	0.43	0.00
C WINDBOX PRESS	2SGAPT0178	psig	2.80	2.67	2.70	0.00	3.84	3.40	3.39	3.57	4.86

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PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
G WINDBOX PRESS	2SGAPT0177	psig	1.96	2.04	2.07	2.10	2.66	2.29	2.29	2.44	3.49
SA Duct East PRESS	2SGBPT0256	psig	2.36	2.46	2.57	2.93	2.91	2.63	2.62	2.77	3.42
SA Duct West PRESS	2SGBPT0257	psig	2.55	2.66	2.72	3.05	3.10	2.86	2.84	2.96	3.56
Coal Bias Pulv A	2COAXI221A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv B	2COAXI222A	%	-2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv C	2COAXI223A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv D	2COAXI224A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv E	2COAXI225A	%	0.00	0.00	0.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00
Coal Bias Pulv F	2COAXI226A	%	0.00	0.00	0.00	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00
Coal Bias Pulv G	2COAXI227A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coal Bias Pulv H	2COAXI228A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv A	2COAXI211A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv B	2COAXI212A	%	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv C	2COAXI213A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.10
PA Bias Pulv D	2COAXI214A	%	0.00	0 00	0.00	0.00	0.00	2.11	2.11	1.00	5.08
PA Bias Pulv E	2COAXI215A	%	0.00	0.00	0.00	1.45	3.01	3.01	3.06	3.06	3.06
PA Bias Pulv F	2COAXI216A	%	0.00	0.00	0.00	2.83	4.50	6.54	6.54	6.54	6.54
PA Bias Pulv G	2COAXI217A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv H	2COAXI218A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SA Damper Pos Pulv A	2COAKS007A	%	68.15	61.11	59.69	77.39	74.25	74.31	19 71	74.10	73.59
SA Damper Pos Pulv B	2COAKS003A	%	65.60	61.06	59.70	77.43	74.23	74.31	74.29	74.07	73.55
SA Damper Pos Pulv C	2COAKS005A	%	72.60	65.57	64.12	22.06	78.73	78.76	78.72	78.50	78.07
SA Damper Pos Pulv D	2COAKS009A	%	72.17	65.10	63.69	81.40	24.61	78.29	78.22	78.06	77.50
SA Damper Pos Pulv E	2COAKS010A	%	72.68	65.56	64.15	76.97	73.52	19.00	73.51	73.38	72.87
SA Damper Pos Pulv F	2COAKS006A	%	28.00	65.36	64.04	76.84	73.40	73.46	73.42	73.16	72.71
SA Damper Pos Pulv G	2COAKS004A	%	68.33	61.18	59.81	77.65	74.35	74.44	74.36	74.20	73.71
SA Damper Pos Pulv H	2COAKS008A	%	68.11	61.00	59.56	77.32	74.18	74.20	74.15	35.20	21.82
BOILER HEAT DUTY											
BLR HEAT DUTY	2SGAPX3563	MBTU/HR	6799.09	7552.85	7489.33	7623.55	7645.28	7644.49	7565.28	7550.77	7651.50
WATER WALLS HEAT DUTY	2SGAPX3690	MBTU/HR	2880.38	3199.63	3136.74	3209.09	3223.09	3160.12	3199.07	3179.95	3195.69
SSH PLATENS HEAT DUTY	2SGAPX3691	MBTU/HR	543.86	599.90	589.88	587.70	619.06	612.34	611.07	590.11	589.22
SSH INT SECTION HEAT DUTY	2SGAPX3692	MBTU/HR	737.44	882.05	821.36	873.80	873.17	859.93	836.82	829.79	855.98
SSH OUTLET SECTION HEAT DUTY	2SGAPX3693	MBTU/HR	327.26	392.26	386.45	402.45	374.51	408.73	386.63	361.96	408.11
RH OUTLET SECTION HEAT DUTY	2SGAPX3694	MBTU/HR	485.74	572.37	551.43	572.47	543.88	573.87	572.10	511.08	529.42
PSH SECTION HEAT DUTY	2SGAPX3695	MBTU/HR	705.75	735.21	777.92	764.75	784.73	775.82	771.09	818.56	794.45
ECON SECTION HEAT DUTY	2SGAPX3696	MBTU/HR	234.81	256.37	267.63	265.01	253.55	260.24	256.60	276.67	267.74
PRI RH SECTION HEAT DUTY	2SGAPX3697	MBTU/HR	553.26	587.71	617.19	618.83	628.34	610.56	610.53	669.29	660.79
TEMPS AIR/GAS											

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PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
AIR TEMP ENT SAH 1A	2COAXI124A	DEGF	57.6	70.6	80.0	75.4	63.5	47.6	55.4	52.1	70.7
AIR TEMP ENT SAH 1B	2COAXI125A	DEGF	58.3	70.5	80.9	76.0	63.6	47.8	55.5	52.7	70.7
AIR TEMP LVG SAH 1A	2COAXI149A	DEGF	686.8	698.7	690.5	701.2	694.6	699.3	701.4	693.8	702.7
AIR TEMP LVG SAH 1B	2COAXI150A	DEGF	683.4	699.8	691.4	696.9	690.0	692.8	694.9	691.5	705.4
FLAME GAS TEMP	2SGAPX3571	DEGF	3,551.3	3,605.5	3,609.4	3,610.4	3,702.9	3,631.5	3,644.4	3,679.5	3,632.0
SSH PLATENS GAS OUT TEMP	2SGAPX3582	DEGF	2,130.1	2,163.4	2,175.5	2,182.1	2,212.2	2,203.9	2,184.4	2,217.1	2,203.0
SSH INT GAS IN TEMP	2SGAPX3591	DEGF	2,130.1	2,163.4	2,175.4	2,182.1	2,212.2	2,203.9	2,184.4	2,217.1	2,203.0
SSH INT GAS OUT TEMP	2SGAPX3592	DEGF	1,807.2	1,809.4	1,841.1	1,834.0	1,851.7	1,859.2	1,844.5	1,875.3	1,860.4
SSH OUTLET BANK GAS OUT T	2SGAPX3602	DEGF	1,661.8	1,649.4	1,681.6	1,671.2	1,694.7	1,693.1	1,684.9	1,724.0	1,695.2
RH OUTLET BANK GAS OUT TEMP	2SGAPX3612	DEGF	1,443.0	1,412.5	1,450.6	1,436.2	1,463.7	1,456.3	1,445.6	1,507.2	1,477.2
PRI RH BANKS GAS IN TEMP	2SGAPX3641	DEGF	1,490.3	1,516.8	1,543.8	1,545.5	1,569.3	1,514.4	1,555.4	1,617.6	1,577.2
RH SECTION GAS OUT TEMP	2SGATE1631	DEGF	759.5	757.8	757.2	764.1	759.4	759.7	761.6	769.9	774.6
TARGET RH EXIT GAS TEMP	2SGAPX3679	DEGF	753.2	758.9	759.2	759.6	760.0	760.0	760.0	760.0	760.0
PSH OUTLET GAS TEMP	2SGAPX3622	DEGF	928.8	935.8	933.0	941.4	933.6	943.2	939.5	954.6	950.8
PSH / ECON EXIT GAS TEMP	2SGATE1625	DEGF	750.7	761.6	746.3	762.1	753.9	762.9	763.3	758.1	765.2
TARGET ECON EXIT GAS TEMP	2SGAPX3688	DEGF	739.8	759.9	759.9	759.6	760.0	759.9	760.0	759.9	760.0
AVE ECON EXIT GAS TEMP	2SGAPX3015	DEGF	720.6	730.0	721.2	731.0	725.6	729.7	730.0	728.6	734.4
TARGET EXIT GAS TEMP	2INAPX3086	DEGF	745.0	759.4	758.9	760.0	760.0	760.0	760.0	760.0	760.0
TEMPS STM/WTR											
ECON INLET WATER TEMP	2COAXI025A	DEGF	539.0	548.3	547.7	549.7	550.0	549.6	549.5	549.4	549.8
	2FWATE0990	DEGF	538.6	548.4	547.4	549.5	550.0	549.3	549.2	549.1	549.6
TSAT AT DRUM PRESSURE	2SGAPX3261	DEGF	673.0	677.3	676.7	677.3	677.1	676.8	676.8	676.8	676.8
1ST STAGE SH ATTEMP INLET T	2SGATE0863	DEGF	724.9	719.1	724.1	717.0	717.7	717.5	717.7	724.6	725.8
	2SGATE0864	DEGF	724.9	716.6	721.3	722.4	725.1	726.3	724.2	725.4	719.3
1ST STAGE SH ATTEMP OUTLET T	2COAXI098A	DEGF	716.7	717.7	723.0	717.6	718.5	711.6	718.1	724.5	723.2
	2COAXI099A	DEGF	716.6	716.6	720.8	721.6	724.9	718.3	723.2	725.4	718.1
2ND STAGE SH ATTEMP INLET T	2SGATE0871	DEGF	796.9	789.9	799.7	782.5	787.2	773.1	786.9	793.8	796.3
	2SGATE0872	DEGF	785.3	781.7	788.2	792.4	803.4	794.8	799.5	799.4	781.3
2ND STAGE SH ATTEMP OUTLET T	2COAXI093A	DEGF	778.5	771.1	779.8	768.1	775.0	757.2	776.1	773.4	776.0
	2COAXI094A	DEGF	778.5	771.3	772.3	775.3	780.1	784.7	780.1	789.8	769.5
SSH INT BANK OUTLET TEMP	2SGAPE0008	DEGF	928.0	923.8	920.9	921.1	928.9	918.6	924.3	927.9	918.5
MAIN STEAM TEMP	2COAXI015A	DEGF	1,007.0	1,005.9	1,002.6	1,004.4	1,006.4	1,003.7	1,004.9	1,003.4	1,002.6
COLD REHEAT INLET TEMP	2SGJTE0019	DEGF	630.1	634.7	632.5	635.4	636.6	635.1	635.9	634.7	634.8
	2SGJTE0022	DEGF	630.9	635.7	633.3	636.2	637.6	635.9	636.8	635.7	635.7
PRI RH SECTION STM OUT TEMP	2SGATE1637	DEGF	824.4	812.5	822.1	820.8	824.9	818.6	820.4	838.2	832.8
RH TURBINE INLET TEMP EAST	2COAXI104A	DEGF	1,005.2	999.7	1,005.9	1,007.8	1,001.6	1,006.3	1,009.0	1,006.8	1,006.0
RH TURBINE INLET TEMP WEST	2COAXI105A	DEGF	999.1	995.1	1,000.0	1,001.7	995.4	1,000.5	1,001.8	998.7	998.6
BLR HOT REHEAT AVE TEMP	2COAXI046A	DEGF	1,005.9	1,000.6	1,006.1	1,008.0	1,001.9	1,006.8	1,008.8	1,006.1	1,005.6
STEAM TEMP PICKUP											
DRUM THRU PSH	2SGAPE0001	DEGF	51.2	40.9	46.1	42.6	44.2	45.2	43.9	48.0	45.6
PLATENS	2SGAPE0002	DEGF	74.5	68.7	72.1	67.7	73.6	69.0	72.6	71.8	68.3
SSH INT BANK	2SGAPE0003	DEGF	149.7	152.5	144.8	149.5	151.5	147.6	146.3	146.3	146.0

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PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
SSH OUT BANK	2SGAPE0004	DEGF	78.7	82.2	81.7	83.4	77.4	85.1	80.8	75.4	83.9
PRI RH SECTION	2SGAPE0005	DEGF	193.8	177.0	189.2	185.0	187.7	183.1	184.3	202.8	197.5
RH OUTLET SECTION	2SGAPE0006	DEGF	178.0	185.1	180.9	183.8	173.5	184.8	184.7	164.6	169.3
FLOWS WTR/STM											
FEEDWATER FLOW (FOX 1A PT)	2FWAFT0025	KPPH	6211.0	6978.8	6867.4	6997.1	6997.0	6936.4	6985.8	6980.9	6990.0
FEEDWATER FLOW (CCS PT)	2COAXI021A	KPPH	5696.6	6505.3	6393.6	6565.6	6580.7	6454.3	6523.5	6529.1	6557.0
STEAM FLOW (FFW + SPRAYS)	2COAXI023A	KPPH	5871.5	6615.3	6521.1	6686.6	6712.7	6623.6	6635.8	6641.6	6675.1
STEAM FLOW OFF 1ST STG PR	2COAXI024A	KPPH	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
PMAX THROTTLE FLOW	2FWAPX3352	KPPH	5973.2	6794.3	6701.0	6853.0	6880.6	6808.9	6805.9	6802.3	6866.8
ECON OUTLET											
EAST ECON O2 PROBE 1A	2SGAAZ0030	%	1.7	2.4	2.3	1.7	1.6	3.2	1.8	2.0	2.5
EAST ECON O2 PROBE 2A	2SGAAZ0031	%	2.1	2.6	2.6	2.3	2.2	3.6	2.8	2.4	2.9
EAST ECON O2 PROBE 3A	2SGAAZ0032	%	3.1	3.1	3.2	4.0	3.3	4.1	4.2	3.6	3.5
EAST ECON O2 PROBE 4A	2SGAAZ0033	%	4.0	3.5	3.4	4.9	3.7	4.2	4.2	4.1	3.2
EAST FLUE GAS O2	2COAXI079A	%	2.6	2.7	2.7	3.0	2.6	3.6	3.1	2.9	2.8
WEST ECON O2 PROBE 1B	2SGAAZ0034	%	4.1	3.7	3.7	4.0	3.5	3.3	3.4	3.7	4.2
WEST ECON O2 PROBE 2B	2SGAAZ0035	%	4.0	3.5	3.8	3.1	2.7	2.1	4.2	2.9	4.9
WEST ECON O2 PROBE 3B	2SGAAZ0036	%	3.0	2.6	3.0	2.4	2.1	2.0	2.8	1.7	3.6
WEST ECON O2 PROBE 4B	2SGAAZ0037	%	2.2	2.9	3.3	2.4	2.0	2.7	2.6	1.6	3.6
WEST FLUE GAS O2	2COAXI080A	%	2.9	2.9	3.2	2.8	2.4	2.5	2.8	2.2	3.6
SELECTED ECON OUT O2	2COAXI187A	%	2.8	2.8	3.0	2.9	2.5	3.1	3.0	2.6	3.2
TARGET ECON OUT O2	2COAXI188A	%	3.3	3.1	3.1	3.1	3.1	3.1	3.1	3.2	3.1
EXCESS AIR %	2SGBPX3512	%	16.0	16.7	16.1	16.0	15.2	18.4	17.9	13.6	17.1
CARBON DIOXIDE %	2SGBPX3513	%	21.5	21.9	21.6	21.3	22.0	21.2	21.5	21.5	21.5
AIR/DRAFT PRESSURE											
SEC AIR DUCT PR E	2SGBPT0256	INWC	2.4	2.5	2.6	2.9	2.9	2.6	2.6	2.8	3.4
SEC AIR DUCT PR W	2SGBPT0257	INWC	2.6	2.7	2.7	3.0	3.1	2.9	2.8	3.0	3.6
FURNACE PRESSURE	2COAXI083A	INWC	-0.4	-0.6	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4	-0.5
SG EAST FLUE GAS PR	2SGAPT0171	INWC	-0.2	-0.3	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
SG SEC SUPHTR GAS PR	2SGAPT0169	INWC	-0.9	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.1
SG HORIZ RH OUT PR	2SGAPT0167	INWC	-2.6	-3.0	-2.9	-3.0	-3.0	-2.9	-2.9	-3.0	-3.1
SG PENDANT OUT PR	2SGAPT0168	INWC	-1.4	-1.6	-1.6	-1.6	-1.6	-1.6	-1.5	-1.6	-1.6
SG PRI SUPHTR OUT PR	2SGAPT0166	INWC	-2.2	-2.5	-2.5	-2.5	-2.5	-2.5	-2.4	-2.5	-2.5
SG ECON OUTLET PR	2SGAPT0165	INWC	-2.6	-3.1	-3.0	-3.1	-3.0	-3.0	-2.9	-3.0	-3.0
SEC AH 1A INLET PR	2SGAPT0164	INWC	-3.5	-4.1	-4.0	-4.1	-4.1	-4.0	-4.0	-4.0	-4.1
SEC AH 1B INLET PR	2SGAPT0183	INWC	-3.2	-3.7	-3.6	-3.7	-3.7	-3.6	-3.6	-3.6	-3.6
ID FAN SUCTION PRESS	2COAXI084A	INWC	-14.0	-16.3	-16.3	-17.4	-17.5	-16.2	-16.3	-16.4	-17.0
ID FAN 1A OUTLET PR	2CCEPT0115	INWC	3.6	4.4	4.4	4.5	3.5	3.1	3.2	4.0	4.3
ID FAN 1B OUTLET PR	2CCEPT0116	INWC	3.3	4.1	4.1	4.2	3.2	2.8	2.9	3.7	4.0

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PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
ID FAN 1C OUTLET PR	2CCEPT0117	INWC	3.4	4.2	4.4	4.5	3.5	2.6	2.8	3.7	4.2
ID FAN 1D OUTLET PR	2CCEPT0118	INWC	3.5	4.3	4.3	4.4	3.4	3.0	3.1	3.9	4.2
BAGHOUSE CASING DELTA P											
A CASING	2CCBA40001	INWC	5.3	6.1	6.2	6.6	6.6	6.1	6.2	6.1	6.3
B CASING	2CCBB40001	INWC	5.7	6.5	6.7	7.1	7.0	6.5	6.7	6.6	6.8
C CASING	2CCBC40001	INWC	5.4	6.1	6.2	6.7	6.7	6.2	6.3	6.2	6.4
FORCED DRAFT FAN 1A											
SEC AIR FLOW 1A	2COAXI076R	%	68.6	72.7	72.5	76.4	75.7	73.2	73.2	76.3	76.1
FD FAN 1A FLOW	2SGBFT0097	KCFM	775.8	839.6	848.5	878.2	871.8	816.8	823.2	859.0	875.8
FAN BLADE PITCH	2COAXI153A	%	49.7	53.5	54.5	58.1	55.3	51.8	52.8	54.1	58.3
FD FAN 1A D/P	2SGBPT0218	INWC	8.7	9.7	9.8	11.0	10.4	9.8	9.7	10.5	11.9
MOTOR AMPS	2SGBKK0005	AMPS	206.5	214.3	214.8	220.4	217.1	208.2	210.3	212.7	224.9
CORR ACTUAL HEAD	2SGBKV0111	INWC	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
AIR HORSEPOWER	CALC	HP	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
FORCED DRAFT FAN 1B											
SEC AIR FLOW 1B	2COAXI077R	%	68.7	73.0	72.6	75.6	75.4	72.6	72.5	75.5	75.6
FD FAN 1B FLOW	2SGBFT0098	KCFM	677.6	731.9	745.4	784.9	765.6	710.8	719.3	753.2	779.1
FAN BLADE PITCH	2COAXI154A	%	49.5	53.1	54.4	57.7	55.3	51.4	52.2	54.0	58.0
FD FAN 1B D/P	2SGBPT0219	INWC	8.7	9.3	9.5	10.7	10.1	9.4	9.5	10.1	11.6
MOTOR AMPS	2SGBKK0006	AMPS	203.6	210.9	209.9	214.6	210.8	203.1	204.1	206.4	217.9
CORR ACTUAL HEAD	2SGBKV0112	INWC	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
AIR HORSEPOWER	CALC	HP	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
PRI AIR DUCT PRESS	2COAXI072A	INWC	44.2	43.9	43.9	43.5	44.6	43.8	44.1	43.9	44.0
PRIMARY AIR FAN 2A											
PA FAN FLOW 2A	2COAXI074R	%	30.0	32.5	32.4	31.8	31.0	31.5	31.4	31.1	31.3
MOTOR AMPS	2SGBKK0007	AMPS	197.3	209.7	211.9	209.2	203.3	200.7	201.9	200.3	204.3
INLET VANE CONTROL POSITION	2COAXI239A	%	60.8	77.8	87.3	86.1	70.1	60.9	64.0	60.6	70.2
PRIMARY AIR FAN 2B											
PA FAN FLOW 2B	2COAXI075R	%	34.1	36.2	35.9	35.0	35.8	35.6	35.4	35.4	35.4
MOTOR AMPS	2SGBKK0008	AMPS	199.6	211.7	213.8	210.1	204.5	202.5	203.2	201.9	205.7
INLET VANE CONTROL POSITION	2COAXI240A	%	61.1	78.3	87.8	86.8	70.6	61.3	64.5	60.9	70.7
SECONDARY AIR HEATER 1A											
AIR ENT SEC AH 1A	2COAXI124A	DEGF	57.6	70.6	80.0	75.4	63.5	47.6	55.4	52.1	70.7
AIR LVG SEC AH 1A	2COAXI149A	DEGF	686.8	698.7	690.5	701.2	694.6	699.3	701.4	693.8	702.7
GAS ENT SEC AH 1A	2SGATE1650	DEGF	750.0	760.4	750.5	760.2	754.1	757.8	757.7	758.6	767.0
GAS LVG SEC AH 1A	2COAXI122A	DEGF	270.5	298.1	301.1	295.8	286.4	273.9	281.2	273.7	297.7
FLUE GAS TEMP DROP	CALC	DEGF	479.5	462.3	449.4	464.4	467.7	483.9	476.6	484.8	469.3

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PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
AIR HEATER TEMP HEAD	CALC	DEGF	692.4	689.8	670.5	684.8	690.6	710.3	702.3	706.4	696.3
DROP/HEAD	CALC	%	69.2	67.0	67.0	67.8	67.7	68.1	67.9	68.6	67.4
SAH 1A EFFICIENCY - AIR SIDE	2SGBPX3525	%	91.2	92.1	92.0	91.6	91.5	91.7	91.8	91.3	92.0
SAH 1A EFFICIENCY - GAS SIDE	2SGBPX3526	%	64.6	62.8	62.6	62.9	62.9	64.7	64.3	63.4	63.1
SAH 1A AIR TO GAS LEAKAGE	2SGBPX3527	%	16.0	13.4	14.5	16.4	15.8	11.5	11.8	17.9	14.3
SAH 1A LEAKAGE (O2 METHOD)	2SGBPX3927	%	15.9	13.4	14.5	16.4	15.8	11.4	11.8	17.8	14.2
COLD END AVE TEMP	2SGBKV0008	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0216	INWC	4.4	5.1	5.1	5.6	5.3	5.2	5.3	5.0	5.4
MOTOR AMPS	2SGBKK0001	AMPS	47.1	47.5	47.0	46.9	46.7	47.1	47.0	47.0	46.9
SECONDARY AIR HEATER 1B											
AIR ENT SEC AH 1B	2COAXI125A	DEGF	58.3	70.5	80.9	76.0	63.6	47.8	55.5	52.7	70.7
AIR LVG SEC AH 1B	2COAXI150A	DEGF	683.4	699.8	691.4	696.9	690.0	692.8	694.9	691.5	705.4
GAS ENT SEC AH 1B	2SGATE1651	DEGF	692.8	699.1	692.1	701.5	697.0	701.6	702.6	698.4	701.2
GAS LVG SEC AH 1B	2COAXI123A	DEGF	276.7	296.8	298.6	297.0	286.1	279.8	285.4	279.2	294.0
FLUE GAS TEMP DROP	CALC	DEGF	416.0	402.3	393.4	404.5	410.9	421.8	417.1	419.2	407.2
AIR HEATER TEMP HEAD	CALC	DEGF	634.5	628.6	611.2	625.5	633.4	653.8	647.1	645.6	630.5
DROP/HEAD	CALC	%	65.6	64.0	64.4	64.7	64.9	64.5	64.5	64.9	64.6
SAH 1B EFFICIENCY - AIR SIDE	2SGBPX3530	%	100.6	101.5	101.2	101.4	101.1	101.2	101.3	100.9	101.7
SAH 1B EFFICIENCY - GAS SIDE	2SGBPX3531	%	63.7	62.2	62.8	63.0	62.2	62.6	62.7	61.8	63.4
SAH 1B AIR TO GAS LEAKAGE	2SGBPX3532	%	5.9	5.5	4.8	5.2	8.0	5.9	5.2	9.4	3.5
SAH 1B LEAKAGE (O2 METHOD)	2SGBPX3930	%	5.9	5.6	4.7	5.3	8.0	5.9	5.2	9.5	3.4
COLD END AVE TEMP	2SGBKV0009	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0217	INWC	4.8	5.2	5.3	5.7	5.5	5.4	5.4	5.4	5.5
MOTOR AMPS	2SGBKK0002	AMPS	28.9	29.0	28.6	28.3	28.1	29.0	28.6	28.5	28.3
PRIMARY AIR HEATER 2A											
AIR ENT PRI AH 2A	2SGBTE0911	DEGF	77.8	92.5	101.4	95.7	83.7	66.9	74.6	71.3	90.6
AIR LVG PRI AH 2A	2SGBTE0917	DEGF	530.7	537.1	532.7	538.9	536.6	547.9	546.7	549.0	549.3
GAS ENT PRI AH 2A	2SGATE1650	DEGF	750.0	760.4	750.5	760.2	754.1	757.8	757.7	758.6	767.0
GAS LVG PRI AH 2A	2COAXI120A	DEGF	294.3	300.6	300.7	300.6	297.9	300.4	300.8	303.6	299.7
FLUE GAS TEMP DROP	CALC	DEGF	236.5	236.6	232.1	238.3	238.8	247.5	245.9	245.5	249.6
AIR HEATER TEMP HEAD	CALC	DEGF	530.7	537.1	532.7	538.9	536.6	547.9	546.7	549.0	549.3
DROP/HEAD	CALC	%	44.6	44.0	43.6	44.2	44.5	45.2	45.0	44.7	45.4
PAH 2A EFFICIENCY - AIR SIDE	2SGBPX3535	%	67.3	66.5	66.4	66.7	67.5	69.6	69.1	69.5	67.8
PAH 2A EFFICIENCY - GAS SIDE	2SGBPX3536	%	67.8	68.8	69.3	69.1	68.1	66.2	66.9	66.2	69.1
COLD END AVE TEMP	2SGBKV0006	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0214	INWC	3.4	3.2	2.9	2.9	3.1	3.1	3.0	2.9	2.5
MOTOR AMPS	2SGBKK0003	AMPS	3.0	3.0	3.0	3.0	3.0	2.9	3.0	3.0	3.0
PRIMARY AIR HEATER 2B											
AIR ENT PRI AH 2B	2SGBTE0912	DEGF	76.2	90.4	101.5	96.8	82.3	65.3	73.1	69.9	89.2
AIR LVG PRI AH 2B	2SGBTE0918	DEGF	518.8	516.3	513.7	518.0	517.7	528.4	528.4	530.7	528.6
GAS ENT PRI AH 2B	2SGATE0710	DEGF	746.2	761.2	747.8	767.1	765.2	771.0	762.9	759.6	759.2

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PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
GAS LVG PRI AH 2B	2COAXI121A	DEGF	301.4	302.3	301.5	301.0	299.7	301.5	301.9	303.7	300.7
FLUE GAS TEMP DROP	CALC	DEGF	217.5	214.0	212.2	217.0	218.0	226.9	226.4	227.0	227.9
AIR HEATER TEMP HEAD	CALC	DEGF	518.8	516.3	513.7	518.0	517.7	528.4	528.4	530.7	528.6
DROP/HEAD	CALC	%	41.9	41.4	41.3	41.9	42.1	42.9	42.9	42.8	43.1
PAH 2B EFFICIENCY - AIR SIDE	2SGBPX3540	%	71.8	69.9	69.8	69.7	70.8	72.8	72.3	73.4	71.8
PAH 2B EFFICIENCY - GAS SIDE	2SGBPX3541	%	63.5	65.2	66.1	66.2	64.7	62.9	63.7	62.8	65.5
COLD END AVE TEMP	2SGBKV0007	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0215	INWC	3.6	3.5	3.1	3.2	3.4	3.4	3.3	3.2	2.8
MOTOR AMPS	2SGBKK0004	AMPS	3.3	3.3	3.2	3.2	3.4	3.2	3.2	3.2	3.1
TOTAL AH LKG (CO2 METHOD)	2SGBPX3933	%	13.3	11.3	11.9	13.6	15.0	8.3	8.2	14.8	9.2
TOTAL AH LKG (GAS WT METH)	2SGBPX3936	%	10.8	9.4	9.5	10.5	11.8	8.5	8.4	13.5	8.7
TOTAL AH LKG (O2 METHOD)	2SGBPX3940	%	10.7	9.4	9.5	10.5	11.8	8.5	8.4	13.5	8.7
INDUCED DRAFT FAN 1A											
XFMR 1A1 AMPS	2CCEKK0001	AMPS	115.5	115.8	116.4	115.2	115.7	113.3	114.6	114.6	115.8
XFMR 1A2 AMPS	2CCEKK0002	AMPS	240.4	268.9	269.0	278.2	271.7	253.5	256.4	263.1	272.7
ID FAN 1A SPEED	2COAXI086A	RPM	649.7	716.1	716.9	741.9	728.6	687.9	694.7	703.4	724.9
INDUCED DRAFT FAN 1B											
XFMR 1B1 AMPS	2CCEKK0003	AMPS	239.8	268.5	268.6	277.6	271.2	252.8	255.8	262.7	272.3
XFMR 1B2 AMPS	2CCEKK0004	AMPS	257.3	287.7	277.7	300.1	292.4	273.0	272.8	284.0	290.0
ID FAN 1B SPEED	2COAXI087A	RPM	650.8	718.1	719.2	744.3	731.0	689.1	696.0	704.9	727.0
INDUCED DRAFT FAN 1C											
XFMR 1C1 AMPS	2CCEKK0005	AMPS	263.6	297.0	300.7	309.3	301.7	279.6	284.2	292.2	302.5
XFMR 1C2 AMPS	2CCEKK0006	AMPS	217.9	240.7	239.7	247.1	242.1	230.9	232.9	238.7	243.8
ID FAN 1C SPEED	2COAXI088A	RPM	645.0	711.2	712.0	737.1	723.8	683.1	689.8	698.5	719.9
INDUCED DRAFT FAN 1D											
XFMR 1D1 AMPS	2CCEKK0007	AMPS	218.3	241.0	241.3	247.8	243.4	231.3	233.3	239.2	244.9
XFMR 1D2 AMPS	2CCEKK0008	AMPS	205.4	232.2	231.5	245.7	239.7	218.9	220.7	230.2	238.8
ID FAN 1D SPEED	2COAXI089A	RPM	574.3	630.6	631.6	653.4	642.3	607.2	612.6	620.2	638.6
TOTAL ID FAN AMPS	CALC	AMPS	1758.1	1951.9	1944.8	2021.2	1977.9	1853.3	1870.6	1924.9	1980.9
COAL PULVERIZER 1A											
PULV COAL FLOW	2COAXI002A	TPH	49.4	45.7	44.9	54.3	52.5	52.6	0.1	52.5	52.2
FEEDER SPEED	2SGAPEFDRA	%	72.4	67.1	65.9	79.9	77.3	77.4	0.2	77.1	76.8
PULV PA FLOW	2COAXI056A	%	90.4	88.6	88.2	93.1	92.1	92.2	0.1	92.1	92.0
PA DAMPER POS	2COAKS021A	%	81.7	78.5	78.0	88.5	85.7	85.7	0.0	86.0	85.5
PULV INLET TEMP	2SGATE0639	DEGF	318.6	307.8	304.2	327.9	316.1	294.0	84.7	298.1	301.1
PULV DISCH TEMP	2COAXI064A	DEGF	149.5	149.5	149.4	149.4	149.2	149.4	108.1	149.5	149.4
PULV DIFF PRESS	2SGAPT0150	INWC	14.5	13.1	12.7	17.7	16.5	16.7	1.5	16.9	16.7

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PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
PULV AMPS	2SGAKK0001	AMPS	59.8	59.7	60.2	63.6	62.7	61.1	0.0	61.3	64.1
AMPS/DP	CALC		4.14	4.56	4.73	3.60	3.80	3.65	0.00	3.64	3.83
TPH/AMPS	CALC		0.83	0.77	0.75	0.85	0.84	0.86	#DIV/0!	0.86	0.81
TPH/DP	CALC		14.45	13.11	12.72	17.66	16.49	16.75	1.45	16.85	16.74
COAL PULVERIZER 1B											
PULV COAL FLOW	2COAXI003A	TPH	48.9	46.6	45.8	55.3	53.5	53.6	53.5	53.4	53.2
FEEDER SPEED	2SGAPEFDRB	%	71.6	68.5	67.3	81.4	78.8	78.8	78.6	78.6	78.2
PULV PA FLOW	2COAXI057A	%	93.5	86.2	85.6	91.7	90.5	90.6	90.5	90.5	90.3
PA DAMPER POS	2COAKS022A	%	71.1	66.3	66.1	74.8	72.8	72.2	72.2	72.8	74.6
PULV INLET TEMP	2SGATE0640	DEGF	341.7	326.7	318.2	356.0	342.1	319.2	324.0	315.2	322.5
PULV DISCH TEMP	2COAXI065A	DEGF	152.5	152.6	152.3	152.6	152.3	152.3	152.2	152.4	152.2
PULV DIFF PRESS	2SGAPT0151	INWC	13.9	13.5	13.5	17.6	16.7	16.2	16.3	17.1	18.2
PULV AMPS	2SGAKK0002	AMPS	56.6	57.8	58.1	61.1	60.9	58.7	59.8	60.5	61.5
AMPS/DP	CALC		4.06	4.29	4.32	3.47	3.65	3.63	3.67	3.53	3.38
TPH/AMPS	CALC		0.86	0.81	0.79	0.90	0.88	0.91	0.89	0.88	0.86
TPH/DP	CALC		13.94	13.47	13.45	17.63	16.68	16.19	16.28	17.12	18.23
COAL PULVERIZER 1C											
PULV COAL FLOW	2COAXI004A	TPH	52.9	49.1	48.3	0.8	56.3	56.4	56.3	56.2	56.0
FEEDER SPEED	2SGAPEFDRC	%	77.5	72.1	70.9	1.1	82.7	82.9	82.8	82.8	82.3
PULV PA FLOW	2COAXI058A	%	88.4	86.1	85.6	0.0	90.5	90.5	90.5	90.4	97.5
PA DAMPER POS	2COAKS023A	%	72.4	70.1	69.6	0.0	79.4	77.8	78.1	79.2	97.9
PULV INLET TEMP	2SGATE0641	DEGF	332.6	318.8	308.4	91.1	322.4	308.9	311.1	311.4	286.2
PULV DISCH TEMP	2COAXI066A	DEGF	149.3	149.3	149.1	100.2	149.1	149.1	149.1	149.1	149.2
PULV DIFF PRESS	2SGAPT0152	INWC	13.0	12.1	11.7	0.3	17.8	16.2	16.8	17.4	20.6
PULV AMPS	2SGAKK0003	AMPS	61.3	61.2	62.2	0.0	64.9	63.6	65.5	66.8	66.8
AMPS/DP	CALC		4.72	5.06	5.31	0.00	3.64	3.91	3.89	3.83	3.24
TPH/AMPS	CALC		0.86	0.80	0.78	#DIV/0!	0.87	0.89	0.86	0.84	0.84
TPH/DP	CALC		12.98	12.08	11.72	0.27	17.84	16.24	16.83	17.43	20.58
COAL PULVERIZER 1D											
PULV COAL FLOW	2COAXI005A	TPH	49.4	46.3	45.5	50.8	0.1	51.1	50.4	51.1	52.2
FEEDER SPEED	2SGAPEFDRD	%	72.5	67.8	67.0	74.7	0.1	75.2	74.2	75.1	76.5
PULV PA FLOW	2COAXI059A	%	83.0	75.0	73.5	94.1	0.1	92.4	92.3	91.0	94.4
PA DAMPER POS	2COAKS024A	%	70.0	65.8	64.8	80.5	0.0	75.0	75.3	74.3	80.3
PULV INLET TEMP	2SGATE0642	DEGF	317.4	316.7	313.4	304.3	139.8	302.6	285.2	288.4	282.2
PULV DISCH TEMP	2COAXI067A	DEGF	149.7	149.4	149.3	149.4	125.5	151.1	150.9	151.0	151.0
PULV DIFF PRESS	2SGAPT0153	INWC	9.3	8.4	8.2	14.0	0.0	12.6	12.0	11.8	14.5
PULV AMPS	2SGAKK0004	AMPS	62.3	64.3	66.0	57.9	0.0	58.3	64.3	66.5	61.0
AMPS/DP	CALC		6.72	7.68	8.07	4.15	#DIV/0!	4.63	5.38	5.66	4.20
TPH/AMPS	CALC		0.79	0.72	0.69	0.88	#DIV/0!	0.88	0.78	0.77	0.86
TPH/DP	CALC		9.27	8.38	8.17	13.97	0.00	12.57	11.97	11.76	14.55

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PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
COAL PULVERIZER 1E											
PULV COAL FLOW	2COAXI006A	TPH	50.4	46.8	45.9	52.7	50.9	0.1	51.0	50.8	50.6
FEEDER SPEED	2SGAPEFDRE	%	73.8	68.9	67.6	77.4	74.9	0.0	75.0	74.8	74.5
PULV PA FLOW	2COAXI060A	%	89.1	86.9	86.4	92.2	92.6	0.0	92.6	92.6	92.4
PA DAMPER POS	2COAKS025A	%	77.8	74.0	73.6	87.0	83.9	0.0	82.4	82.0	83.6
PULV INLET TEMP	2SGATE0643	DEGF	341.6	331.3	336.6	316.2	309.9	68.2	312.2	297.3	294.8
PULV DISCH TEMP	2COAXI068A	DEGF	149.2	150.9	153.9	147.1	146.5	86.1	154.6	150.0	146.1
PULV DIFF PRESS	2SGAPT0154	INWC	15.5	14.2	13.7	18.4	17.5	0.1	16.5	16.8	17.9
PULV AMPS	2SGAKK0005	AMPS	57.6	56.9	56.9	60.6	59.6	0.0	61.0	62.4	62.3
AMPS/DP	CALC		3.73	4.02	4.17	3.29	3.40	0.10	3.70	3.71	3.48
TPH/AMPS	CALC		0.87	0.82	0.81	0.87	0.85	7.23	0.84	0.81	0.81
TPH/DP	CALC		15.45	14.17	13.65	18.39	17.49	0.11	16.48	16.83	17.88
COAL PULVERIZER 1F											
PULV COAL FLOW	2COAXI007A	TPH	0.2	46.3	45.5	52.3	50.5	50.5	50.5	50.4	50.2
FEEDER SPEED	2SGAPEFDRF	%	0.3	68.2	66.9	76.7	74.3	74.3	74.1	74.1	73.8
PULV PA FLOW	2COAXI061A	%	0.1	86.0	85.5	92.7	93.2	95.3	95.3	95.2	95.0
PA DAMPER POS	2COAKS026A	%	0.0	73.0	72.5	88.5	83.5	87.5	87.8	81.0	91.6
PULV INLET TEMP	2SGATE0644	DEGF	137.8	364.0	347.5	366.8	354.8	333.2	327.9	327.0	305.0
PULV DISCH TEMP	2COAXI069A	DEGF	112.8	150.9	150.2	150.8	150.5	150.3	150.4	150.4	150.3
PULV DIFF PRESS	2SGAPT0155	INWC	0.1	16.2	15.9	19.3	18.2	18.7	18.8	16.4	19.8
PULV AMPS	2SGAKK0006	AMPS	0.0	57.6	58.6	61.8	61.0	59.1	59.7	62.1	63.2
AMPS/DP	CALC		0.05	3.55	3.68	3.20	3.36	3.16	3.18	3.78	3.19
TPH/AMPS	CALC		26.35	0.80	0.78	0.85	0.83	0.85	0.85	0.81	0.79
TPH/DP	CALC		0.13	16.22	15.93	19.30	18.15	18.72	18.76	16.44	19.82
COAL PULVERIZER 1G											
PULV COAL FLOW	2COAXI008A	TPH	50.3	46.6	45.8	55.3	53.5	53.6	53.5	53.4	53.2
FEEDER SPEED	2SGAPEFDRG	%	73.8	68.8	67.4	81.4	78.8	78.8	78.7	78.6	78.2
PULV PA FLOW	2COAXI062A	%	89.0	86.7	86.2	92.3	91.1	91.2	91.1	91.1	90.9
PA DAMPER POS	2COAKS027A	%	72.7	70.7	69.9	79.0	76.5	73.4	73.6	73.5	75.5
PULV INLET TEMP	2SGATE0645	DEGF	358.3	349.1	339.1	361.8	357.3	328.4	328.6	327.8	323.1
PULV DISCH TEMP	2COAXI070A	DEGF	150.0	150.1	149.8	149.9	149.8	149.7	149.7	149.7	149.7
PULV DIFF PRESS	2SGAPT0156	INWC	0.0	0.0	0.0	0.0	0.0	10.3	12.8	13.0	15.1
PULV AMPS	2SGAKK0007	AMPS	58.4	57.5	57.7	61.4	60.9	64.0	64.1	65.0	61.5
AMPS/DP	CALC		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	6.22	5.01	5.00	4.07
TPH/AMPS	CALC		0.86	0.81	0.79	0.90	0.88	0.84	0.83	0.82	0.87
TPH/DP	CALC		0.00	0.00	0.00	0.00	0.00	10.29	12.80	13.00	15.11
COAL PULVERIZER 1H											
PULV COAL FLOW	2COAXI009A	TPH	49.6	45.9	45.1	54.5	52.7	52.9	52.8	0.2	0.2
FEEDER SPEED	2SGAPEFDRH	%	72.4	67.3	66.3	80.2	77.5	77.7	77.6	0.2	0.2
PULV PA FLOW	2COAXI063A	%	88.4	86.1	85.6	91.6	90.5	90.5	90.5	0.0	0.0
PA DAMPER POS	2COAKS028A	%	90.6	87.8	87.5	97.0	94.9	94.2	95.2	0.0	0.0

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PARAMETER	PT ID	UNITS	Test 18	Test 19	Test 20	Test 21	Test 22	Test 23	Test 24	Test 25	Test 26
start time			4/27/04 7:45	4/27/04 10:45	4/27/04 12:45	4/28/04 9:45	4/28/04 13:15	4/29/04 8:00	4/29/04 13:00	4/30/04 7:45	4/30/04 14:45
end time			4/27/04 8:15	4/27/04 11:15	4/27/04 15:30	4/28/04 12:00	4/28/04 15:30	4/29/04 11:45	4/29/04 15:30	4/30/04 8:45	4/30/04 15:30
PULV INLET TEMP	2SGATE0646	DEGF	382.9	362.8	356.2	377.9	374.7	345.9	345.9	132.0	111.5
PULV DISCH TEMP	2COAXI071A	DEGF	150.8	150.8	150.6	150.7	150.4	150.5	150.5	116.1	102.0
PULV DIFF PRESS	2SGAPT0157	INWC	11.6	10.8	10.6	13.9	13.3	13.6	14.1	0.0	0.0
PULV AMPS	2SGAKK0008	AMPS	60.8	60.2	60.7	63.2	62.9	61.7	62.4	0.0	0.0
AMPS/DP	CALC		5.25	5.55	5.73	4.55	4.72	4.52	4.43	0.98	#DIV/0!
TPH/AMPS	CALC		0.82	0.76	0.74	0.86	0.84	0.86	0.85	3.30	7.54
TPH/DP	CALC		11.60	10.85	10.60	13.91	13.33	13.64	14.09	0.05	0.00
PULV AMP SWING											
A PULV	CALC	AMPS	6.27	5.29	7.29	6.39	6.78	9.45	0.00	8.18	9.73
B PULV	CALC	AMPS	7.82	7.41	9.81	8.69	9.18	11.64	10.81	12.25	6.21
C PULV	CALC	AMPS	7.22	5.91	8.44	0.00	7.77	8.83	9.55	9.14	8.79
D PULV	CALC	AMPS	16.58	17.89	17.79	8.28	0.00	12.08	17.83	14.19	13.64
E PULV	CALC	AMPS	5.46	6.17	7.47	7.02	6.96	0.04	13.64	11.79	10.04
F PULV	CALC	AMPS	0.00	4.93	5.60	5.98	5.35	6.98	7.37	11.32	6.27
G PULV	CALC	AMPS	5.50	4.70	6.00	5.44	5.74	16.47	17.36	15.31	5.35
H PULV	CALC	AMPS	6.86	6.70	8.71	8.02	6.82	9.85	9.93	0.01	0.00
CLEANLINESS FACTOR											
WATERWALLS	2SGAPX3577		0.81	0.87	0.85	0.87	0.86	0.84	0.87	0.84	0.85
PSH SECTION	2SGAPX3628		0.83	0.81	0.85	0.82	0.86	0.83	0.83	0.84	0.83
SSH PLATEN SECTION	2SGAPX3587		1.03	1.06	1.03	1.02	1.06	1.06	1.07	0.99	1.00
SSH INTERMEDIATE SECTION	2SGAPX3598		0.79	0.93	0.84	0.89	0.88	0.85	0.86	0.82	0.85
SSH OUTLET SECTION	2SGAPX3608		0.67	0.79	0.74	0.77	0.71	0.76	0.74	0.65	0.75
PRIMARY RH SECTION	2SGAPX3648		0.82	0.87	0.89	0.89	0.91	0.87	0.88	0.90	0.88
RH OUTLET SECTION	2SGAPX3618		0.79	0.95	0.87	0.92	0.83	0.88	0.90	0.72	0.80
ECONOMIZER SECTION	2SGAPX3638		0.73	0.74	0.82	0.76	0.77	0.76	0.74	0.81	0.76
MAIN STEAM PRESSURE	2COAXI012A	PSIG	2344.24	2353.20	2353.83	2349.83	2348.58	2348.41	2348.24	2348.32	2351.22
CRH Inlet	2SGJPT0012	PSIG	536.16	587.81	584.10	596.33	597.06	594.37	594.60	593.91	596.45
HRH Outlet	2SGJPT0006	PSIG	499.96	548.21	544.68	556.15	556.72	554.51	554.65	553.97	556.27
HRH Outlet	2SGJPT0007	PSIG	498.73	546.92	543.36	554.86	555.39	553.15	553.31	552.64	554.99
Delta P CRH to HRH	calc		36.81	40.24	40.08	40.83	41.00	40.54	40.62	40.61	40.82
MAIN STEAM CHEST PRESSURE	2TGAPT0040	PSIG	2315.72	2319.59	2320.03	2314.99	2313.05	2314.40	2313.84	2313.76	2316.35
1ST STAGE INLET	2COAXI042S	PSIG	2010.31	2219.88	2194.66	2244.76	2254.40	2231.65	2235.20	2236.70	2244.56
Turbine Valve Position	2TGFPE0037	% open	23.27	32.92	32.08	38.19	42.06	35.61	36.39	36.82	42.13

IP7_032790

U2 Burner Setup & Tuning (new ABT burners & BPI overfire air) follc

PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
Test Conditions:			burner settings calc #3 OR, 3.75" spin, 4th hole inner	burner settings calc #4 OR, 3.75" spin, 4th hole inner	burner settings calc #5 OR, 3.75" spin, 4th hole inner	burner settings calc #5 OR, 3.75" spin, 4th hole inner	burner settings calc #5 OR, 3.75" spin, 4th hole inner	burner settings 7" OR, 3.75" spin, 4th hole inner	burner settings 7" OR, 3.75" spin, 4th hole inner
GROSS CAPACITY Load, net	COAXI027A	MW	941.70	935.98	936.17	944.85	939.28	950.42	948.04
Pulv Status			G Pulv o/s	G Pulv o/s	G Pulv o/s	B Pulv o/s	D Pulv o/s	D Pulv o/s	F Pulv o/s
BOILER									
BOILER EFF (HL Method)	2SGAPX3550	%	89.18	88.63	88.53	89.14	88.94	88.77	89.20
BOILER EFF (Input-Output Method)	2SGAPX3561	%	89.95	90.40	92.00	91.89	93.42	92.18	86.64
BLOWDOWN FLOW	2SGAPE116F	KPPH	0.00	0.02	0.00	0.00	0.88	0.30	12.37
SH SPRAY FLOW	2COAXI022A	KPPH	235.33	224.23	257.81	388.59	244.25	176.80	170.01
PMAX SH SPRAY FLOW	2SGAPX3033	KPPH	246.22	232.31	280.54	370.98	244.65	180.29	168.38
RH SPRAY FLOW	2COAXI108A	KPPH	0.22	0.00	0.00	21.58	0.30	0.00	0.08
PMAX RH SPRAY FLOW	2SGAPX3918	KPPH	2.12	3.25	3.50	40.45	0.00	0.00	0.00
TOTAL AIR FLOW	2COAXI078S	%	78.7	80.4	80.4	80.4	81.6	86.8	85.4
EXCESS AIR (CALC'D)	2SGBPX3512	%	16.69	15.00	14.12	16.27	16.73	16.84	19.09
TOTAL FUEL FLOW	2COAXI001A	TPH	370.3	367.3	364.8	369.9	355.7	361.6	368.9
PMAX BACKCALC COAL FLOW	2SGAPX3504	TPH	360.7	363.1	365.0	360.0	362.7	368.0	350.2
REHEAT DAMPER POS	2COAXI136A	%	30.2	27.4	27.4	52.0	38.7	30.8	60.0
SUPERHEAT DAMPER POS	2COAXI135A	%	100.0	100.0	100.0	75.5	90.1	92.5	94.9
BOILER DUTY (HEAT INPUT)	CALC	MBTU/HR	8835	8765	8380	8498	8488	8630	#VALUE!
COAL..AS-FIRED									
HHVC	9CHEKT0001	BTU/LB	11,932	11,932	11,485	11,485	11,931	11,931	No Good Data
% TOTAL MOISTURE	9CHEKT0005	%	8.10	8.10	9.50	9.50	8.10	8.10	No Good Data
% ASH	9CHEKT0006	%	9.18	9.18	9.24	9.24	9.18	9.18	No Good Data
% SULFUR	9CHEKT0007	%	0.53	0.53	0.37	0.37	0.53	0.53	No Good Data
% CARBON	9CHEKT0009	%	66.68	66.68	64.32	64.32	66.68	66.68	No Good Data
% HYDROGEN	9CHEKT0010	%	4.69	4.69	4.58	4.58	4.69	4.69	No Good Data
% NITROGEN	9CHEKT0011	%	1.45	1.45	1.29	1.29	1.45	1.45	No Good Data
% OXYGEN	9CHEKT0012	%	9.37	9.37	10.70	10.70	9.36	9.36	No Good Data

ASH

IP7_032791

PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
FLY ASH LOI TOTAL	MANUAL	%							
FLY ASH LOI EAST	MANUAL	%							
FLY ASH LOI WEST	MANUAL	%							
BOILER CONDITIONS	Pulv O/s	manual	G Pulv o/s	G Pulv o/s	G Pulv o/s	B Pulv o/s	D Pulv o/s	D Pulv o/s	F Pulv o/s
EAST FLUE GAS O2	2COAXI079A	%	2.0	2.6	2.5	3.1	3.2	2.9	3.4
EAST FLUE GAS O2 (GRID)	MANUAL	%	2.3	2 8	2.9	3 2	3.8	4 5	4.5
EAST FLUE GAS CO (GRID)	MANUAL	ppm	736 9	348.7	457.5	274.4	156.2	47.1	3.7
EAST FLUE GAS CO2 (GRID)	MANUAL	%	15.7	14 9	14 6	15.7	15.1	19.31(BAD)	14.2
WEST FLUE GAS O2	2COAXI080A	%	3.9	3.7	4.1	2.3	2.2	3.1	2.6
WEST FLUE GAS O2 (GRID)	MANUAL	%	3.6	3.6	3.8	2.8	2.5	3.3	2.5
WEST FLUE GAS CO (GRID)	MANUAL	ppm	924.8	949 4	734.3	1212.2	1225.9	744 8	1224.9
WEST FLUE GAS CO2 (GRID)	MANUAL	%	15.1	14.9	14.7	15.6	15 7	15.2	15 7
SCRUB INLET SO2	2SAAKK0002	PPM	289.0	317.1	311.6	342.8	361.4	345.7	346.9
STACK NOX	2SAAKK0006	PPM	151.3	165.6	165.9	170.6	154.5	198.4	184.3
STACK NOX CONVERTED	2SAAKK0007	PPM	0.26	0.28	0.29	0.29	0.27	0.36	0.32
STACK CO	MANUAL	ppm		762.4	552.3	864.2	1144.5	311.2	959 2
STACK O2	MANUAL	%		5.2	5.3	5.4	5.6	6.1	6.2
O2 TRIM SETPOINT	2COAXI220A	%	49.07	55.16	56.18	54.20	61.97	67.28	62.08
CEM STACK VOL FLOW	2SAAKK0016	MSCFH	136.23	137.57	138.53	137.82	138.69	144.65	149.38
PMAX CALC STACK VOL FLOW	2SGAPX3903	MSCFH	136.46	136.96	137.54	134.75	129.98	134.14	140.86
PMAX BLR GAS FLOW	2SGAPX3520	LB/HR	8,055,074	8,041,602	8,064,948	7,920,727	7,630,408	7,856,305	8,338,547
PMAX BLR AIR FLOW RATE	2SGAPX3522	LB/HR	7,383,466	7,375,029	7,403,186	7,251,068	6,985,074	7,200,422	7,668,554
SCRUB INLET NOX	2SAAKK0010	PPM	156.84	176.64	177.73	180.08	163.54	210.37	200.10
SCRUB INLET SO2	2SAAKK0003	#/mbtu	0.64	0.72	0.71	0.79	0.84	0.82	0.81
U1 SCRUB INLET SO2	1SAAKK0002	PPM	295.72	330.23	328.00	382.34	381.55	377.66	378.28
U1 SCRUB INLET SO2	1SAAKK0003	#/mbtu	0.63	0.71	0.71	0.82	0.83	0.83	0.82
Scrub In CO2	2SAAKK0012	%	13.38	13.06	13.03	12.96	12.83	12.60	12.73
Stack CO2	2SAAKK0015	%	12.74	12.52	12.40	12.48	12.26	11.97	12.22
SA FLOW EAST %	2COAXI076R	%	71.36	72.95	73.05	72.96	73.82	78.94	78.18
SA FLOW West %	2COAXI077R	%	71.29	72.92	73.20	72.68	74.31	79.15	77.66
TOTAL AIR %	2COAXI078S	%	78.65	80.44	80.37	80.43	81.56	86.84	85.45
E WINDBOX PRESS	2SGAPT0176	psig	3.73	4.59	5.01	5.05	4.91	5.05	4.49
A WINDBOX PRESS	2SGAPT0175	psig	3.59	4.42	4.84	4.93	4.84	5.08	4.40
F WINDBOX PRESS	2SGAPT0174	psig	3.58	4.47	4.89	4.65	4.73	4.83	0.04
B WINDBOX PRESS	2SGAPT0173	psig	3.16	4.00	4.42	0.05	4.29	4.66	3.45
D WINDBOX PRESS	2SGAPT0180	psig	3.61	4.44	4.88	4.92	2.23	0.03	4.41
H WINDBOX PRESS	2SGAPT0179	psig	3.47	4.25	4.66	4.73	4.44	4.77	4.37
C WINDBOX PRESS	2SGAPT0178	psig	3.74	4.61	5.05	5.13	4.93	5.36	4.52

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PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
G WINDBOX PRESS	2SGAPT0177	psig	0.03	0.00	0.00	3.49	3.54	4.02	3.31
SA Duct East PRESS	2SGBPT0256	psig	2.75	3.22	3.52	3.42	3.45	3.86	3.37
SA Duct West PRESS	2SGBPT0257	psig	2.87	3.40	3.63	3.55	3.62	4.09	3.55
Coal Bias Pulv A	2COAXI221A	%	-2.90	-2.90	-2.90	0.00	0.00	0.00	0.00
Coal Bias Pulv B	2COAXI222A	%	0.00	0.00	0.00	0.00	0.00	0.00	-3.90
Coal Bias Pulv C	2COAXI223A	%	0.00	0.00	0.00	0.00	-4.10	0.00	-2.00
Coal Bias Pulv D	2COAXI224A	%	0.00	0.00	0.00	5.00	5.00	0.00	0.00
Coal Bias Pulv E	2COAXI225A	%	-4.90	-4.90	-4.90	-4.50	-4.50	-4.50	-5.10
Coal Bias Pulv F	2COAXI226A	%	-6.00	-6.00	-6.00	-6.00	-6.00	-6.90	-2.00
Coal Bias Pulv G	2COAXI227A	%	0.00	0.00	0.00	5.00	5.00	5.50	5.50
Coal Bias Pulv H	2COAXI228A	%	-2.80	-2.80	-2.80	0.00	0.00	0.00	0.00
PA Bias Pulv A	2COAXI211A	%	6.60	6.60	6.60	0.00	0.00	0.00	3.00
PA Bias Pulv B	2COAXI212A	%	4.07	4.07	4.07	4.07	4.07	2.60	6.20
PA Bias Pulv C	2COAXI213A	%	3.00	3.00	3.00	3.00	5.97	4.44	3.01
PA Bias Pulv D	2COAXI214A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv E	2COAXI215A	%	5.10	5.10	5.10	6.90	6.90	4.41	5.87
PA Bias Pulv F	2COAXI216A	%	5.10	5.10	5.10	0.00	2.86	2.86	2.31
PA Bias Pulv G	2COAXI217A	%	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PA Bias Pulv H	2COAXI218A	%	0.00	0.00	0.00	6.38	6.38	4.44	2.64
SA Damper Pos Pulv A	2COAKS007A	%	74.00	72.71	72.09	75.65	71.61	72.49	74.16
SA Damper Pos Pulv B	2COAKS003A	%	77.32	76.29	75.77	23.00	71.64	72.46	69.09
SA Damper Pos Pulv C	2COAKS005A	%	81.77	80.67	80.28	80.13	70.64	76.89	75.97
SA Damper Pos Pulv D	2COAKS009A	%	81.39	80.22	79.86	84.84	40.59	18.38	78.12
SA Damper Pos Pulv E	2COAKS010A	%	75.99	74.51	73.95	74.54	70.11	71.11	71.99
SA Damper Pos Pulv F	2COAKS006A	%	74.47	72.99	72.38	72.47	68.14	67.81	28.75
SA Damper Pos Pulv G	2COAKS004A	%	28.48	18.54	18.53	80.95	77.64	78.98	80.22
SA Damper Pos Pulv H	2COAKS008A	%	74.06	72.71	72.06	75.53	71.52	72.40	74.05
BOILER HEAT DUTY									
BLR HEAT DUTY	2SGAPX3563	MBTU/HR	7620.58	7609.69	7689.97	7757.18	7639.72	7671.77	7619.43
WATER WALLS HEAT DUTY	2SGAPX3690	MBTU/HR	3059.12	3060.27	3058.37	3037.71	3095.58	3137.33	3139.42
SSH PLATENS HEAT DUTY	2SGAPX3691	MBTU/HR	574.10	578.53	605.31	609.96	623.84	593.65	576.10
SSH INT SECTION HEAT DUTY	2SGAPX3692	MBTU/HR	806.67	779.66	853.29	909.86	850.92	792.08	839.48
SSH OUTLET SECTION HEAT DUTY	2SGAPX3693	MBTU/HR	396.64	367.58	375.81	406.34	384.82	380.18	395.37
RH OUTLET SECTION HEAT DUTY	2SGAPX3694	MBTU/HR	615.75	618.69	624.34	544.92	541.85	601.66	541.99
PSH SECTION HEAT DUTY	2SGAPX3695	MBTU/HR	881.91	919.46	855.46	819.81	800.09	902.22	841.60
ECON SECTION HEAT DUTY	2SGAPX3696	MBTU/HR	288.10	296.07	285.28	232.83	270.79	301.68	282.66
PRI RH SECTION HEAT DUTY	2SGAPX3697	MBTU/HR	569.49	574.81	571.90	668.22	638.34	587.64	633.22
TEMPS AIR/GAS									

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PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
AIR TEMP ENT SAH 1A	2COAXI124A	DEGF	69.1	87.7	89.9	71.0	88.9	95.5	81.7
AIR TEMP ENT SAH 1B	2COAXI125A	DEGF	69.5	87.8	90.2	71.4	89.8	96.4	82.5
AIR TEMP LVG SAH 1A	2COAXI149A	DEGF	700.2	719.1	717.3	694.3	703.5	717.0	711.6
AIR TEMP LVG SAH 1B	2COAXI150A	DEGF	702.3	718.6	716.2	696.3	694.6	705.7	705.0
FLAME GAS TEMP	2SGAPX3571	DEGF	3,604.2	3,619.3	3,622.8	3,638.0	3,742.2	3,702.4	3,551.8
SSH PLATENS GAS OUT TEMP	2SGAPX3582	DEGF	2,234.3	2,247.0	2,243.8	2,244.9	2,277.3	2,270.6	2,189.6
SSH INT GAS IN TEMP	2SGAPX3591	DEGF	2,234.3	2,247.0	2,243.8	2,244.9	2,277.3	2,270.6	2,189.6
SSH INT GAS OUT TEMP	2SGAPX3592	DEGF	1,913.0	1,935.9	1,904.4	1,877.0	1,920.4	1,948.2	1,865.0
SSH OUTLET BANK GAS OUT T	2SGAPX3602	DEGF	1,752.0	1,787.6	1,752.5	1,710.0	1,756.2	1,791.0	1,710.0
RH OUTLET BANK GAS OUT TEMP	2SGAPX3612	DEGF	1,500.3	1,534.6	1,496.7	1,483.1	1,521.9	1,538.8	1,494.3
PRI RH BANKS GAS IN TEMP	2SGAPX3641	DEGF	1,563.6	1,613.5	1,560.3	1,564.9	1,571.2	1,639.0	1,535.8
RH SECTION GAS OUT TEMP	2SGATE1631	DEGF	753.1	760.6	755.9	758.9	758.9	760.5	770.4
TARGET RH EXIT GAS TEMP	2SGAPX3679	DEGF	759.7	759.7	759.7	759.2	759.9	759.9	760.0
PSH OUTLET GAS TEMP	2SGAPX3622	DEGF	961.8	984.3	972.5	925.3	963.6	983.0	963.3
PSH / ECON EXIT GAS TEMP	2SGATE1625	DEGF	777.3	798.5	789.2	759.2	765.9	788.0	776.0
TARGET ECON EXIT GAS TEMP	2SGAPX3688	DEGF	759.9	760.0	760.0	759.9	760.0	760.0	760.0
AVE ECON EXIT GAS TEMP	2SGAPX3015	DEGF	733.5	747.2	741.5	726.9	729.9	743.7	739.3
TARGET EXIT GAS TEMP	2INAPX3086	DEGF	759.5	759.2	759.2	759.6	759.4	760.0	759.9
TEMPS STM/WTR									
ECON INLET WATER TEMP	2COAXI025A	DEGF	548.9	548.2	548.4	549.7	549.1	550.2	549.7
	2FWATE0990	DEGF	548.8	548.1	548.3	549.4	549.0	550.2	549.7
TSAT AT DRUM PRESSURE	2SGAPX3261	DEGF	676.1	675.9	676.3	674.9	676.1	676.7	677.0
1ST STAGE SH ATTEMP INLET T	2SGATE0863	DEGF	735.7	737.4	730.1	736.5	723.7	732.0	726.6
	2SGATE0864	DEGF	733.8	739.9	733.1	725.1	727.9	735.0	729.2
1ST STAGE SH ATTEMP OUTLET T	2COAXI098A	DEGF	724.7	726.8	719.8	722.4	714.1	721.3	713.4
	2COAXI099A	DEGF	722.2	728.0	720.3	717.3	720.7	735.7	720.1
2ND STAGE SH ATTEMP INLET T	2SGATE0871	DEGF	801.1	805.4	799.6	804.9	786.5	794.2	775.1
	2SGATE0872	DEGF	788.0	797.9	788.4	792.1	797.6	810.0	786.3
2ND STAGE SH ATTEMP OUTLET T	2COAXI093A	DEGF	784.8	791.0	778.3	770.4	768.3	778.7	769.7
	2COAXI094A	DEGF	768.6	778.5	766.7	754.4	776.5	791.0	782.7
SSH INT BANK OUTLET TEMP	2SGAPE0008	DEGF	919.3	925.8	922.0	921.4	920.2	923.3	922.1
MAIN STEAM TEMP	2COAXI015A	DEGF	1,003.3	1,004.0	1,002.1	1,009.3	1,001.5	1,001.7	1,004.4
COLD REHEAT INLET TEMP	2SGJTE0019	DEGF	635.5	635.7	635.3	634.9	635.1	634.3	635.8
	2SGJTE0022	DEGF	636.5	636.6	635.9	636.1	636.2	635.2	636.7
PRI RH SECTION STM OUT TEMP	2SGATE1637	DEGF	808.8	811.3	807.2	832.9	827.1	809.1	827.2
RH TURBINE INLET TEMP EAST	2COAXI104A	DEGF	1,015.0	1,019.5	1,016.2	1,015.1	1,008.2	1,006.3	1,005.8
RH TURBINE INLET TEMP WEST	2COAXI105A	DEGF	1,005.0	1,008.9	1,008.3	1,006.6	1,000.7	997.1	998.0
BLR HOT REHEAT AVE TEMP	2COAXI046A	DEGF	1,013.2	1,017.2	1,015.4	1,014.0	1,007.3	1,004.8	1,005.1
STEAM TEMP PICKUP									
DRUM THRU PSH	2SGAPE0001	DEGF	58.5	62.8	56.0	55.9	49.6	56.2	51.0
PLATENS	2SGAPE0002	DEGF	71.0	74.3	74.2	78.6	74.6	73.8	63.9
SSH INT BANK	2SGAPE0003	DEGF	142.5	141.0	150.0	159.4	148.2	138.4	145.8

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PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
SSH OUT BANK	2SGAPE0004	DEGF	83.9	78.1	79.3	87.6	81.2	78.5	82.3
PRI RH SECTION	2SGAPE0005	DEGF	172.8	175.3	171.8	197.7	191.9	174.2	191.2
RH OUTLET SECTION	2SGAPE0006	DEGF	201.1	202.8	204.6	177.4	176.8	192.8	174.8
FLOWS WTR/STM									
FEEDWATER FLOW (FOX 1A PT)	2FWAFT0025	KPPH	6779.7	6785.3	6770.1	6635.3	6824.8	6979.0	6946.6
FEEDWATER FLOW (CCS PT)	2COAXI021A	KPPH	6289.4	6292.4	6275.4	6134.0	6333.1	6511.1	6476.5
STEAM FLOW (FFW + SPRAYS)	2COAXI023A	KPPH	6519.6	6512.1	6528.2	6515.0	6572.5	6684.2	6643.1
STEAM FLOW OFF 1ST STG PR	2COAXI024A	KPPH	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
PMAX THROTTLE FLOW	2FWAPX3352	KPPH	6692.0	6689.2	6720.8	6659.2	6741.2	6850.5	6805.8
ECON OUTLET									
EAST ECON O2 PROBE 1A	2SGAAZ0030	%	1.2	1.4	1.4	2.8	2.7	2.7	3.3
EAST ECON O2 PROBE 2A	2SGAAZ0031	%	1.5	2.1	2.1	4.2	3.2	2.5	3.3
EAST ECON O2 PROBE 3A	2SGAAZ0032	%	2.9	3.6	3.5	2.2	3.8	3.2	3.8
EAST ECON O2 PROBE 4A	2SGAAZ0033	%	3.0	3.7	3.7	3.3	3.8	3.9	4.2
EAST FLUE GAS O2	2COAXI079A	%	2.0	2.6	2.5	3.1	3.2	2.9	3.4
WEST ECON O2 PROBE 1B	2SGAAZ0034	%	3.4	3.8	3.7	4.3	4.0	4.8	5.0
WEST ECON O2 PROBE 2B	2SGAAZ0035	%	5.4	5.3	5.5	3.2	4.6	4.4	4.3
WEST ECON O2 PROBE 3B	2SGAAZ0036	%	4.6	3.8	4.4	2.3	1.3	2.1	1.5
WEST ECON O2 PROBE 4B	2SGAAZ0037	%	4.2	3.8	4.6	1.2	1.7	2.6	1.6
WEST FLUE GAS O2	2COAXI080A	%	3.9	3.7	4.1	2.3	2.2	3.1	2.6
SELECTED ECON OUT O2	2COAXI187A	%	3.0	3.1	3.3	2.7	2.7	3.0	3.0
TARGET ECON OUT O2	2COAXI188A	%	3.1	3.1	3.1	3.1	3.1	3.1	3.1
EXCESS AIR %	2SGBPX3512	%	16.7	15.0	14.1	16.3	16.7	16.8	19.1
CARBON DIOXIDE %	2SGBPX3513	%	21.8	21.4	21.3	22.0	21.6	21.5	21.6
AIR/DRAFT PRESSURE									
SEC AIR DUCT PR E	2SGBPT0256	INWC	2.8	3.2	3.5	3.4	3.4	3.9	3.4
SEC AIR DUCT PR W	2SGBPT0257	INWC	2.9	3.4	3.6	3.6	3.6	4.1	3.6
FURNACE PRESSURE	2COAXI083A	INWC	-0.5	-0.5	-0.5	-0.5	-0.5	-0.5	-0.4
SG EAST FLUE GAS PR	2SGAPT0171	INWC	-0.3	-0.3	-0.2	-0.1	-0.1	-0.2	0.1
SG SEC SUPHTR GAS PR	2SGAPT0169	INWC	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1
SG HORIZ RH OUT PR	2SGAPT0167	INWC	-2.7	-2.7	-2.8	-3.0	-2.9	-2.9	-3.1
SG PENDANT OUT PR	2SGAPT0168	INWC	-1.5	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6
SG PRI SUPHTR OUT PR	2SGAPT0166	INWC	-2.5	-2.6	-2.7	-2.5	-2.5	-2.8	-2.6
SG ECON OUTLET PR	2SGAPT0165	INWC	-3.1	-3.3	-3.3	-3.0	-3.1	-3.4	-3.2
SEC AH 1A INLET PR	2SGAPT0164	INWC	-4.1	-4.3	-4.3	-4.1	-4.1	-4.5	-4.3
SEC AH 1B INLET PR	2SGAPT0183	INWC	-3.7	-3.9	-3.9	-3.7	-3.7	-4.1	-3.9
ID FAN SUCTION PRESS	2COAXI084A	INWC	-16.1	-17.2	-17.4	-16.9	-17.2	-18.4	-18.1
ID FAN 1A OUTLET PR	2CCEPT0115	INWC	4.2	4.5	4.6	4.2	4.5	5.0	4.7
ID FAN 1B OUTLET PR	2CCEPT0116	INWC	3.9	4.2	4.3	3.8	4.2	4.6	4.4

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PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
ID FAN 1C OUTLET PR	2CCEPT0117	INWC	4.1	4.7	4.8	4.2	4.7	5.2	4.7
ID FAN 1D OUTLET PR	2CCEPT0118	INWC	4.1	4.4	4.5	4.0	4.5	4.9	4.6
BAGHOUSE CASING DELTA P									
A CASING	2CCBA40001	INWC	6.0	6.7	6.7	6.4	6.7	6.9	6.8
B CASING	2CCBB40001	INWC	6.5	7.1	7.3	6.9	7.1	7.4	7.2
C CASING	2CCBC40001	INWC	6.2	6.6	6.9	6.5	6.7	6.9	7.0
FORCED DRAFT FAN 1A									
SEC AIR FLOW 1A	2COAXI076R	%	71.4	73.0	73.1	73.0	73.8	78.9	78.2
FD FAN 1A FLOW	2SGBFT0097	KCFM	816.7	845.2	853.4	840.4	870.2	931.3	899.8
FAN BLADE PITCH	2COAXI153A	%	52.8	57.5	59.3	56.6	59.7	67.1	61.0
FD FAN 1A D/P	2SGBPT0218	INWC	10.0	11.3	11.9	11.6	11.8	13.2	12.2
MOTOR AMPS	2SGBKK0005	AMPS	212.3	221.0	224.2	220.6	228.4	251.2	232.1
CORR ACTUAL HEAD	2SGBKV0111	INWC	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
AIR HORSEPOWER	CALC	HP	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
FORCED DRAFT FAN 1B									
SEC AIR FLOW 1B	2COAXI077R	%	71.3	72.9	73.2	72.7	74.3	79.1	77.7
FD FAN 1B FLOW	2SGBFT0098	KCFM	711.0	752.5	759.8	749.9	777.8	850.6	807.8
FAN BLADE PITCH	2COAXI154A	%	52.6	57.3	58.5	56.4	59.6	66.7	60.8
FD FAN 1B D/P	2SGBPT0219	INWC	9.8	11.1	11.6	11.4	11.8	13.4	11.9
MOTOR AMPS	2SGBKK0006	AMPS	207.2	214.3	218.2	216.4	220.6	241.9	223.7
CORR ACTUAL HEAD	2SGBKV0112	INWC	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
AIR HORSEPOWER	CALC	HP	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
PRI AIR DUCT PRESS	2COAXI072A	INWC	44.2	44.9	44.7	43.9	44.1	44.2	45.1
PRIMARY AIR FAN 2A									
PA FAN FLOW 2A	2COAXI074R	%	31.8	32.0	32.0	31.7	31.6	31.6	30.9
MOTOR AMPS	2SGBKK0007	AMPS	206.1	212.6	213.3	205.1	209.6	210.9	317.2
INLET VANE CONTROL POSITION	2COAXI239A	%	73.9	92.3	93.9	72.7	88.7	93.4	34.1
PRIMARY AIR FAN 2B									
PA FAN FLOW 2B	2COAXI075R	%	35.7	35.3	35.2	35.9	34.7	34.6	34.4
MOTOR AMPS	2SGBKK0008	AMPS	209.0	215.6	216.0	208.1	211.8	212.9	312.5
INLET VANE CONTROL POSITION	2COAXI240A	%	74.4	93.0	94.5	73.2	89.2	94.1	34.4
SECONDARY AIR HEATER 1A									
AIR ENT SEC AH 1A	2COAXI124A	DEGF	69.1	87.7	89.9	71.0	88.9	95.5	81.7
AIR LVG SEC AH 1A	2COAXI149A	DEGF	700.2	719.1	717.3	694.3	703.5	717.0	711.6
GAS ENT SEC AH 1A	2SGATE1650	DEGF	765.9	778.8	771.4	758.2	755.1	768.7	766.8
GAS LVG SEC AH 1A	2COAXI122A	DEGF	296.0	319.0	321.1	300.6	308.9	314.6	305.7
FLUE GAS TEMP DROP	CALC	DEGF	469.9	459.8	450.3	457.6	446.2	454.1	461.2

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PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
AIR HEATER TEMP HEAD	CALC	DEGF	696.8	691.2	681.5	687.2	666.1	673.2	685.2
DROP/HEAD	CALC	%	67.4	66.5	66.1	66.6	67.0	67.5	67.3
SAH 1A EFFICIENCY - AIR SIDE	2SGBPX3525	%	91.8	92.2	92.7	91.9	91.7	91.7	91.9
SAH 1A EFFICIENCY - GAS SIDE	2SGBPX3526	%	64.0	62.4	61.8	63.5	61.6	60.1	60.3
SAH 1A AIR TO GAS LEAKAGE	2SGBPX3527	%	11.3	13.0	13.6	9.6	17.4	24.2	22.9
SAH 1A LEAKAGE (O2 METHOD)	2SGBPX3927	%	11.3	13.1	13.6	9.6	17.4	24.2	22.7
COLD END AVE TEMP	2SGBKV0008	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0216	INWC	5.0	5.3	5.4	5.3	5.7	5.9	5.9
MOTOR AMPS	2SGBKK0001	AMPS	46.9	46.4	46.3	46.6	46.4	46.5	46.5
SECONDARY AIR HEATER 1B									
AIR ENT SEC AH 1B	2COAXI125A	DEGF	69.5	87.8	90.2	71.4	89.8	96.4	82.5
AIR LVG SEC AH 1B	2COAXI150A	DEGF	702.3	718.6	716.2	696.3	694.6	705.7	705.0
GAS ENT SEC AH 1B	2SGATE1651	DEGF	701.4	715.8	710.1	695.1	704.0	719.3	711.9
GAS LVG SEC AH 1B	2COAXI123A	DEGF	292.5	313.0	314.0	297.3	307.5	312.0	304.7
FLUE GAS TEMP DROP	CALC	DEGF	408.9	402.8	396.1	397.8	396.5	407.3	407.2
AIR HEATER TEMP HEAD	CALC	DEGF	631.9	628.0	619.9	623.7	614.2	622.9	629.5
DROP/HEAD	CALC	%	64.7	64.1	63.9	63.8	64.6	65.4	64.7
SAH 1B EFFICIENCY - AIR SIDE	2SGBPX3530	%	101.5	102.1	102.6	101.3	101.3	101.0	101.4
SAH 1B EFFICIENCY - GAS SIDE	2SGBPX3531	%	64.7	63.7	64.1	60.9	61.9	63.6	62.4
SAH 1B AIR TO GAS LEAKAGE	2SGBPX3532	%	0.7	1.6	0.5	8.3	8.0	5.4	7.1
SAH 1B LEAKAGE (O2 METHOD)	2SGBPX3930	%	0.7	1.6	0.5	8.3	8.0	5.3	7.1
COLD END AVE TEMP	2SGBKV0009	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0217	INWC	5.3	5.4	5.5	5.5	6.0	6.1	6.1
MOTOR AMPS	2SGBKK0002	AMPS	28.1	28.0	28.0	27.9	27.8	27.8	28.2
PRIMARY AIR HEATER 2A									
AIR ENT PRI AH 2A	2SGBTE0911	DEGF	90.6	108.1	110.5	92.9	109.2	114.3	120.0
AIR LVG PRI AH 2A	2SGBTE0917	DEGF	541.5	546.4	545.2	545.5	543.5	545.0	539.1
GAS ENT PRI AH 2A	2SGATE1650	DEGF	765.9	778.8	771.4	758.2	755.1	768.7	766.8
GAS LVG PRI AH 2A	2COAXI120A	DEGF	301.2	302.3	300.8	300.8	300.4	299.3	300.3
FLUE GAS TEMP DROP	CALC	DEGF	240.3	244.2	244.4	244.7	243.1	245.7	238.8
AIR HEATER TEMP HEAD	CALC	DEGF	541.5	546.4	545.2	545.5	543.5	545.0	539.1
DROP/HEAD	CALC	%	44.4	44.7	44.8	44.9	44.7	45.1	44.3
PAH 2A EFFICIENCY - AIR SIDE	2SGBPX3535	%	66.8	65.4	65.8	68.0	67.3	65.8	64.8
PAH 2A EFFICIENCY - GAS SIDE	2SGBPX3536	%	68.8	71.1	71.3	68.8	70.4	71.7	72.1
COLD END AVE TEMP	2SGBKV0006	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0214	INWC	3.2	2.7	2.7	2.8	2.3	2.3	2.5
MOTOR AMPS	2SGBKK0003	AMPS	3.0	3.0	3.0	3.0	2.9	2.9	3.0
PRIMARY AIR HEATER 2B									
AIR ENT PRI AH 2B	2SGBTE0912	DEGF	88.4	107.9	110.4	89.5	109.3	115.4	120.3
AIR LVG PRI AH 2B	2SGBTE0918	DEGF	520.2	520.7	521.8	526.2	524.6	528.1	520.8
GAS ENT PRI AH 2B	2SGATE0710	DEGF	762.1	777.4	773.7	761.8	765.6	784.6	776.3

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PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
GAS LVG PRI AH 2B	2COAXI121A	DEGF	302.1	303.1	302.0	302.0	299.2	301.1	301.1
FLUE GAS TEMP DROP	CALC	DEGF	218.1	217.5	219.8	224.2	225.4	227.0	219.8
AIR HEATER TEMP HEAD	CALC	DEGF	520.2	520.7	521.8	526.2	524.6	528.1	520.8
DROP/HEAD	CALC	%	41.9	41.8	42.1	42.6	43.0	43.0	42.2
PAH 2B EFFICIENCY - AIR SIDE	2SGBPX3540	%	70.5	67.9	68.6	72.0	69.8	68.3	67.7
PAH 2B EFFICIENCY - GAS SIDE	2SGBPX3541	%	65.1	67.8	68.0	65.0	68.0	69.2	69.4
COLD END AVE TEMP	2SGBKV0007	DEGF	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data	No Good Data
DIFFERENTIAL PRESS	2SGBPT0215	INWC	3.5	2.9	2.8	3.0	2.6	2.6	2.8
MOTOR AMPS	2SGBKK0004	AMPS	3.2	3.2	3.2	3.3	3.2	3.1	3.3
TOTAL AH LKG (CO2 METHOD)	2SGBPX3933	%	8.1	9.8	9.1	12.7	14.0	14.3	13.2
TOTAL AH LKG (GAS WT METH)	2SGBPX3936	%	5.8	7.1	6.6	8.8	12.5	14.0	14.2
TOTAL AH LKG (O2 METHOD)	2SGBPX3940	%	5.8	7.1	6.6	8.8	12.5	13.9	14.1
INDUCED DRAFT FAN 1A									
XFMR 1A1 AMPS	2CCEKK0001	AMPS	117.9	119.0	118.9	117.3	117.6	117.5	116.3
XFMR 1A2 AMPS	2CCEKK0002	AMPS	260.0	276.8	277.4	270.2	278.7	297.1	287.9
ID FAN 1A SPEED	2COAXI086A	RPM	701.8	737.5	743.4	723.7	737.7	771.7	753.6
INDUCED DRAFT FAN 1B									
XFMR 1B1 AMPS	2CCEKK0003	AMPS	259.7	276.3	277.2	269.7	277.8	296.8	287.7
XFMR 1B2 AMPS	2CCEKK0004	AMPS	280.7	296.1	301.2	288.0	297.8	319.0	309.1
ID FAN 1B SPEED	2COAXI087A	RPM	703.2	739.4	745.6	725.2	739.3	773.8	754.1
INDUCED DRAFT FAN 1C									
XFMR 1C1 AMPS	2CCEKK0005	AMPS	289.1	307.0	311.4	298.4	308.9	330.6	318.1
XFMR 1C2 AMPS	2CCEKK0006	AMPS	235.5	245.0	246.0	240.9	245.7	256.9	252.5
ID FAN 1C SPEED	2COAXI088A	RPM	696.6	732.1	738.2	718.2	732.3	766.1	747.2
INDUCED DRAFT FAN 1D									
XFMR 1D1 AMPS	2CCEKK0007	AMPS	236.3	246.0	247.6	242.2	246.9	259.0	253.0
XFMR 1D2 AMPS	2CCEKK0008	AMPS	225.5	240.0	242.5	235.5	241.0	259.3	255.6
ID FAN 1D SPEED	2COAXI089A	RPM	618.7	649.6	655.3	637.5	649.3	677.5	662.1
TOTAL ID FAN AMPS	CALC	AMPS	1904.7	2006.2	2022.3	1962.2	2014.5	2136.2	2080.3
COAL PULVERIZER 1A									
PULV COAL FLOW	2COAXI002A	TPH	52.5	51.7	51.4	53.4	51.1	51.6	52.5
FEEDER SPEED	2SGAPEFDRA	%	77.0	76.0	75.6	78.6	75.3	75.8	77.2
PULV PA FLOW	2COAXI056A	%	98.7	98.4	98.1	92.5	91.4	91.7	95.1
PA DAMPER POS	2COAKS021A	%	89.3	88.7	88.6	86.4	84.3	85.9	87.6
PULV INLET TEMP	2SGATE0639	DEGF	309.0	308.4	308.5	284.5	280.6	298.2	308.1
PULV DISCH TEMP	2COAXI064A	DEGF	149.3	149.3	149.6	149.4	149.3	149.3	149.3
PULV DIFF PRESS	2SGAPT0150	INWC	17.2	16.8	16.5	17.4	16.7	17.0	17.7

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PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
PULV AMPS	2SGAKK0001	AMPS	61.2	60.6	60.5	65.0	64.9	65.0	63.1
AMPS/DP	CALC		3.55	3.61	3.67	3.73	3.88	3.83	3.56
TPH/AMPS	CALC		0.86	0.85	0.85	0.82	0.79	0.79	0.83
TPH/DP	CALC		17.22	16.77	16.50	17.42	16.70	16.98	17.71
COAL PULVERIZER 1B									
PULV COAL FLOW	2COAXI003A	TPH	55.5	54.7	54.4	0.1	52.1	52.6	50.9
FEEDER SPEED	2SGAPEFDRB	%	81.5	80.4	80.0	0.1	76.7	77.3	74.8
PULV PA FLOW	2COAXI057A	%	95.8	95.4	95.1	0.0	93.7	92.5	95.1
PA DAMPER POS	2COAKS022A	%	77.7	76.0	74.4	0.0	73.8	74.2	72.7
PULV INLET TEMP	2SGATE0640	DEGF	349.7	341.5	330.0	91.9	308.3	308.4	325.3
PULV DISCH TEMP	2COAXI065A	DEGF	152.5	148.2	149.0	105.7	148.2	148.2	148.5
PULV DIFF PRESS	2SGAPT0151	INWC	18.1	17.4	16.6	2.5	16.7	17.2	15.7
PULV AMPS	2SGAKK0002	AMPS	61.1	60.1	60.1	0.0	60.7	61.8	59.1
AMPS/DP	CALC		3.37	3.46	3.62	0.00	3.64	3.60	3.76
TPH/AMPS	CALC		0.91	0.91	0.90	#DIV/0!	0.86	0.85	0.86
TPH/DP	CALC		18.13	17.37	16.63	2.53	16.67	17.19	15.73
COAL PULVERIZER 1C									
PULV COAL FLOW	2COAXI004A	TPH	58.3	57.6	57.2	57.3	51.9	55.4	54.9
FEEDER SPEED	2SGAPEFDRC	%	85.7	84.5	84.0	84.0	76.2	81.4	80.6
PULV PA FLOW	2COAXI058A	%	94.7	94.3	94.0	94.0	93.8	94.4	92.7
PA DAMPER POS	2COAKS023A	%	88.0	85.6	84.0	85.8	79.1	89.0	78.9
PULV INLET TEMP	2SGATE0641	DEGF	332.3	326.0	318.4	295.5	285.0	296.7	330.8
PULV DISCH TEMP	2COAXI066A	DEGF	149.2	149.1	149.0	149.1	149.4	149.8	149.8
PULV DIFF PRESS	2SGAPT0152	INWC	19.5	18.8	18.4	19.2	16.4	20.0	16.9
PULV AMPS	2SGAKK0003	AMPS	64.9	63.9	64.0	66.4	64.7	65.6	63.1
AMPS/DP	CALC		3.32	3.40	3.47	3.45	3.94	3.27	3.73
TPH/AMPS	CALC		0.90	0.90	0.89	0.86	0.80	0.84	0.87
TPH/DP	CALC		19.55	18.82	18.42	19.21	16.41	20.04	16.91
COAL PULVERIZER 1D									
PULV COAL FLOW	2COAXI005A	TPH	51.2	52.1	52.4	52.9	No Good Dat	0.0	53.1
FEEDER SPEED	2SGAPEFDRD	%	75.2	76.7	77.1	77.8	No Good Dat	0.0	78.2
PULV PA FLOW	2COAXI059A	%	93.4	92.6	92.0	96.3	0.1	0.1	90.2
PA DAMPER POS	2COAKS024A	%	77.8	76.8	76.7	78.9	0.0	0.0	79.3
PULV INLET TEMP	2SGATE0642	DEGF	315.7	301.1	306.5	275.9	109.7	109.5	316.4
PULV DISCH TEMP	2COAXI067A	DEGF	150.9	150.9	151.2	151.1	105.8	95.1	151.0
PULV DIFF PRESS	2SGAPT0153	INWC	12.5	11.7	11.5	12.1	0.0	0.1	15.6
PULV AMPS	2SGAKK0004	AMPS	58.4	64.1	64.4	67.9	0.0	0.0	65.2
AMPS/DP	CALC		4.66	5.50	5.60	5.61	0.00	0.00	4.18
TPH/AMPS	CALC		0.88	0.81	0.81	0.78	#VALUE!	#DIV/0!	0.82
TPH/DP	CALC		12.53	11.66	11.50	12.11	0.02	0.05	15.59

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PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
COAL PULVERIZER 1E									
PULV COAL FLOW	2COAXI006A	TPH	52.3	51.5	51.2	51.4	49.1	49.6	50.2
FEEDER SPEED	2SGAPEFDRE	%	76.8	75.7	75.5	75.7	72.6	73.0	73.9
PULV PA FLOW	2COAXI060A	%	95.5	95.1	94.8	96.6	95.4	93.2	94.9
PA DAMPER POS	2COAKS025A	%	89.8	85.6	84.6	90.3	87.7	85.9	81.8
PULV INLET TEMP	2SGATE0643	DEGF	331.0	328.0	330.3	276.2	286.7	285.3	314.1
PULV DISCH TEMP	2COAXI068A	DEGF	153.8	153.7	153.1	148.4	153.2	152.7	153.3
PULV DIFF PRESS	2SGAPT0154	INWC	18.2	17.5	17.1	18.1	18.3	18.4	16.6
PULV AMPS	2SGAKK0005	AMPS	58.9	57.9	57.7	60.7	59.5	60.9	61.2
AMPS/DP	CALC		3.24	3.32	3.37	3.35	3.26	3.32	3.68
TPH/AMPS	CALC		0.89	0.89	0.89	0.85	0.83	0.81	0.82
TPH/DP	CALC		18.17	17.45	17.11	18.11	18.26	18.36	16.65
COAL PULVERIZER 1F									
PULV COAL FLOW	2COAXI007A	TPH	51.1	50.3	50.0	50.0	47.7	47.6	0.2
FEEDER SPEED	2SGAPEFDRF	%	75.0	74.0	73.6	73.5	70.2	69.9	0.3
PULV PA FLOW	2COAXI061A	%	94.2	93.7	93.4	88.3	89.8	89.7	0.2
PA DAMPER POS	2COAKS026A	%	83.0	80.6	80.3	76.1	76.8	76.9	0.0
PULV INLET TEMP	2SGATE0644	DEGF	374.3	358.8	354.5	314.9	302.5	305.2	135.3
PULV DISCH TEMP	2COAXI069A	DEGF	150.5	150.5	150.2	150.4	150.5	150.3	110.7
PULV DIFF PRESS	2SGAPT0155	INWC	17.7	17.2	17.2	17.3	17.6	17.5	0.0
PULV AMPS	2SGAKK0006	AMPS	60.8	59.6	59.4	61.9	61.3	61.2	0.0
AMPS/DP	CALC		3.42	3.46	3.46	3.58	3.49	3.49	0.00
TPH/AMPS	CALC		0.84	0.84	0.84	0.81	0.78	0.78	#DIV/0!
TPH/DP	CALC		17.74	17.22	17.16	17.29	17.56	17.52	0.00
COAL PULVERIZER 1G									
PULV COAL FLOW	2COAXI008A	TPH	0.0	0.0	0.0	57.8	55.6	56.4	57.3
FEEDER SPEED	2SGAPEFDRG	%	0.0	0.0	0.0	85.1	81.6	82.9	84.3
PULV PA FLOW	2COAXI062A	%	0.1	0.0	0.0	93.8	92.4	93.0	93.5
PA DAMPER POS	2COAKS027A	%	0.0	0.0	0.0	80.5	79.0	81.9	78.4
PULV INLET TEMP	2SGATE0645	DEGF	99.6	102.8	104.3	342.7	321.7	337.3	364.2
PULV DISCH TEMP	2COAXI070A	DEGF	122.0	114.4	114.1	149.8	149.8	149.6	149.8
PULV DIFF PRESS	2SGAPT0156	INWC	0.1	0.0	0.0	16.3	16.5	17.2	16.0
PULV AMPS	2SGAKK0007	AMPS	0.0	0.0	0.0	62.5	63.3	63.9	61.8
AMPS/DP	CALC		0.00	0.00	0.00	3.85	3.83	3.72	3.86
TPH/AMPS	CALC		#DIV/0!	#DIV/0!	#DIV/0!	0.92	0.88	0.88	0.93
TPH/DP	CALC		0.06	0.03	0.02	16.25	16.55	17.21	16.00
COAL PULVERIZER 1H									
PULV COAL FLOW	2COAXI009A	TPH	52.8	52.0	51.6	53.6	51.3	51.7	52.8
FEEDER SPEED	2SGAPEFDRH	%	77.5	76.4	75.9	78.5	75.5	75.9	77.6
PULV PA FLOW	2COAXI063A	%	90.4	90.0	89.7	94.1	95.7	94.2	93.1
PA DAMPER POS	2COAKS028A	%	96.0	94.4	94.9	99.5	98.8	99.3	94.0

IP7_032800

PARAMETER	PT ID	UNITS	Test 27	Test 28	Test 29	Test 30	Test 31	Test 32	Test 33
start time			5/3/04 8:30	5/3/04 13:30	5/3/04 14:45	5/4/04 7:30	5/4/04 12:15	5/4/04 14:30	5/7/04 11:00
end time			5/3/04 9:15	5/3/04 14:15	5/3/04 15:15	5/4/04 8:00	5/4/04 12:45	5/4/04 15:30	5/7/04 12:45
PULV INLET TEMP	2SGATE0646	DEGF	351.5	319.9	321.4	311.6	297.3	318.2	345.5
PULV DISCH TEMP	2COAXI071A	DEGF	150.6	150.3	150.4	150.3	148.5	148.7	148.7
PULV DIFF PRESS	2SGAPT0157	INWC	14.8	14.9	15.4	15.6	14.6	15.1	13.0
PULV AMPS	2SGAKK0008	AMPS	62.9	66.4	65.6	65.6	64.1	64.3	64.8
AMPS/DP	CALC		4.26	4.45	4.27	4.20	4.39	4.26	4.98
TPH/AMPS	CALC		0.84	0.78	0.79	0.82	0.80	0.80	0.81
TPH/DP	CALC		14.76	14.93	15.37	15.62	14.60	15.07	13.01
PULV AMP SWING									
A PULV	CALC	AMPS	7.51	6.72	7.43	7.31	6.84	6.68	8.14
B PULV	CALC	AMPS	9.63	7.90	8.35	0.00	7.49	9.06	9.59
C PULV	CALC	AMPS	7.42	7.28	7.24	7.40	7.44	7.75	7.48
D PULV	CALC	AMPS	12.31	23.88	23.13	20.43	0.00	0.00	12.55
E PULV	CALC	AMPS	5.98	5.44	5.64	7.67	5.52	7.55	12.68
F PULV	CALC	AMPS	5.80	6.05	5.90	7.37	5.78	6.57	0.00
G PULV	CALC	AMPS	0.00	0.00	0.00	6.09	6.68	6.43	6.31
H PULV	CALC	AMPS	8.26	8.92	7.71	10.22	6.98	7.41	8.88
CLEANLINESS FACTOR									
WATERWALLS	2SGAPX3577		0.80	0.79	0.79	0.79	0.79	0.80	0.83
PSH SECTION	2SGAPX3628		0.85	0.82	0.81	0.91	0.81	0.82	0.82
SSH PLATEN SECTION	2SGAPX3587		0.96	0.95	1.02	1.04	1.04	0.96	0.99
SSH INTERMEDIATE SECTION	2SGAPX3598		0.76	0.73	0.81	0.88	0.79	0.73	0.81
SSH OUTLET SECTION	2SGAPX3608		0.67	0.60	0.64	0.74	0.66	0.62	0.71
PRIMARY RH SECTION	2SGAPX3648		0.85	0.83	0.84	0.93	0.89	0.84	0.86
RH OUTLET SECTION	2SGAPX3618		0.86	0.81	0.88	0.81	0.74	0.78	0.78
ECONOMIZER SECTION	2SGAPX3638		0.78	0.73	0.73	0.71	0.78	0.77	0.78
MAIN STEAM PRESSURE	2COAXI012A	PSIG	2340.43	2339.29	2341.86	2320.49	2339.96	2348.18	2347.45
CRH Inlet	2SGJPT0012	PSIG	590.11	587.35	588.37	592.40	591.65	599.39	595.96
HRH Outlet	2SGJPT0006	PSIG	550.47	547.88	548.83	552.62	551.80	558.94	555.77
HRH Outlet	2SGJPT0007	PSIG	549.25	546.50	547.47	551.25	550.46	557.68	554.56
Delta P CRH to HRH	calc		40.26	40.15	40.22	40.46	40.52	41.08	40.80
MAIN STEAM CHEST PRESSURE	2TGAPT0040	PSIG	2307.97	2306.07	2309.06	2287.43	2305.32	2313.61	2312.64
1ST STAGE INLET	2COAXI042S	PSIG	2204.68	2193.86	2195.89	2204.70	2214.00	2249.97	2238.68
Turbine Valve Position	2TGFPE0037	% open	32.70	31.24	31.19	35.85	34.81	39.97	42.27

IP7_032801

4-21-04 All pulv I/S 900 MW

10:10	East	O_2	2.85	CO	232	West	O_2	4.67	CO 116
12:00	East	O_2	2.59	CO	170	West	O_2	4.85	CO 39

Set all burners 8" OR, 3" spin, 3rd hole inner

14:00	East	O_2	3.96	CO	49	West	O_2	3.67	CO 370
14:05	East	O_2	3.94	CO	50	West	O_2	3.39	CO 599
14:10	East	O_2	3.91	CO	54	West	O_2	3.67	CO 135
14:15	East	O_2	4.06	CO	34	West	O_2	3.58	CO 158
14:20	East	O_2	3.84	CO	74	West	O_2	3.49	CO 125
14:25	East	O_2	3.98	CO	66	West	O_2	3.61	CO 230
14:30	East	O_2	3.86	CO	55	West	O_2	3.51	CO 497

Set OR 10" on all

14:40

E1 .3733 E2 .5050 E3 .5223 E4 .5980 E5 .6565 E6 .4292

A1 .457 A2 .6709 A3 .5216 A4 .4950 A5 .2813 A6 .3740

F1 -.042 F2 .3589 F3 .5200 F4 .5133 F5 .6122 F6 2..1693

B1 .5042 B2 .2533 B3 -.6250 B4 .3849 B5 .5878 B6 .5746

14:40 readings before moving 10"

	D	H	C	G
1	.003	NA	.510	.524
2	.626	.488	.533	.556
3	.655	.681	.495	.409
4	.625	.552	.431	.537
5	.571	.463	.510	.390
6	.748	.481	NA	.469

Before setting OR to 10"

15:30	East	O_2	3.45	CO	63	West	O_2	3.61	CO 131
15:35	East	O_2	3.58	CO	73	West	O_2	3.44	CO 263
15:40	East	O_2	3.51	CO	27	West	O_2	3.27	CO 334
15:45	East	O_2	3.85	CO	27	West	O_2	3.23	CO 338
15:50	East	O_2	3.93	CO	29	West	O_2	3.16	CO 430

4-22-04

08:30	East	O_2	3.67	CO	99	West	O_2	3.39	CO 770
08:35	East	O_2	3.62	CO	82	West	O_2	3.32	CO 797
08:40	East	O_2	3.69	CO	93	West	O_2	3.17	CO 1000+
08:45	East	O_2	3.71	CO	56	West	O_2	3.05	CO 972
08:50	East	O_2	3.84	CO	54	West	O_2	3.17	CO 969
08:55	East	O_2	3.74	CO	80	West	O_2	3.16	CO 1000+
09:00	East	O_2	3.98	CO	54	West	O_2	3.39	CO 67
09:05	East	O_2	4.10	CO	43	West	O_2	3.43	CO 548
09:10	East	O_2	4.11	CO	62	West	O_2	3.50	CO [illegible]

OR to 12"

4-22-04 All puly I/s OR ~~moved~~ to 10"

Test 4

09:15	East O_2 4.01	CO 62	West O_2 3.82	CO 265
09:20	East O_2 4.17	CO 41	West O_2 3.65	CO 347
09:25	East O_2 4.36	CO 44	West O_2 3.76	CO 234
09:30	East O_2 4.33	CO 44	West O_2 4.07	CO 98
09:35	East O_2 4.45	CO 43	West O_2 3.67	CO 375
09:40	East O_2 4.23	CO 52	West O_2 3.74	CO 455
09:45	East O_2 4.31	CO 45	West O_2 4.00	CO 182

moved OR to 12" done @ 10:10

Test 5

10:15	East O_2 4.37	CO 44	West O_2 3.48	CO 528
10:20	West O_2 4.41	CO 45	West O_2 3.39	CO 177
10:25	East O_2 4.39	CO 54	West O_2 3.49	CO 525
10:30	East O_2 4.31	CO 56	West O_2 4.00	CO 76
10:35	East O_2 4.34	CO 44	West O_2 3.49	CO 154
10:40	East O_2 4.35	CO 54	West O_2 3.42	CO 590
10:45	East O_2 4.26	CO 54	West O_2 3.80	CO 425
10:50	East O_2 4.13	CO 44	West O_2 3.52	CO 322
10:55	East O_2 4.41	CO 43	West O_2 3.55	CO 573
11:00	East O_2 4.39	CO 43	West O_2 3.63	CO 536

moved OR to 9" done by 11:25

Test 6

11:30	East O_2 4.31	CO 49	West O_2 3.93	CO 284
12:00	East O_2 4.38	CO 38	West O_2 3.53	CO 286
12:05	East O_2 4.44	CO 34	West O_2 3.41	CO 431
12:10	East O_2 4.24	CO 50	West O_2 3.66	CO 358
12:15	East O_2 4.31	CO 46	West O_2 3.60	CO 179

inner air move 1" to 2" opened

12:15 3 holes to 5 holes

1" to 2"

Test 7

12:35	East O_2 4.37	CO 45	West O_2 4.04	CO 134
12:40	East O_2 4.42	CO 48	West O_2 3.96	CO 146
12:45	East O_2 4.27	CO 52	West O_2 3.83	CO 125
12:50	East O_2 4.49	CO 48	West O_2 3.75	CO 205
12:55	East O_2 4.36	CO 50	West O_2 3.77	CO 300
13:00	East O_2 4.60	CO 47	West O_2 3.68	CO 295
13:05	East O_2 4.31	CO 19	West O_2 3.88	CO 122
13:10	East O_2 4.33	CO 16	West O_2 3.81	CO 186
13:15	East O_2 4.47	CO 37	West O_2 3.42	CO 415
13:20	East O_2	CO	West O_2	CO
13:25	East O_2	CO	West O_2	CO
13:30	East O_2	CO	West O_2	CO

13:30 open up two more holes inner

move Inner to 7th hole

D1	.1775	D2	.6340	D3	.6061	D4	.5845	D5	.5259	D6	.5413
H1	bad	H2	.4771	H3	.6622	H4	.5294	H5	.4491	H6	.4523
C1	.4956	C2	.6589	C3	.4596	C4	.4100	C5	.4965	C6	bad
G1	.5220	G2	.5298	G3	.3735	G4	.4932	G5	.3683	G6	.4666
B1	.4974	B2	.2347	B3	.6051	B4	.3461	B5	.5447	B6	.5469
F1	.1140	F2	.3683	F3	.4915	F4	.4708	F5	.5884	F6	bad
A1	.4243	A2	.6340	A3	.4812	A4	.4524	A5	.2603	A6	.3516
E1	.3571	E2	.4822	E3	.4803	E4	.5675	E5	.6246	E6	.4218

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4-22-04 13:45 moved inner 5th to 7th hole OR still @ 9" spin 3"

Test 8

13:50	East O_2	4.11	CO 65	West O_2	4.10	CO 49
13:55	East O_2	4.21	CO 48	West O_2	3.92	CO 164
14:00	East O_2	4.08	CO 60	West O_2	4.03	CO 58
14:05	East O_2	4.09	CO 53	West O_2	3.97	CO 50
14:10	East O_2	4.05	CO 63	West O_2	3.92	CO 121
14:15	East O_2	4.18	CO 60	West O_2	4.05	CO 70
14:20	East O_2	4.22	CO 56	West O_2	4.09	CO 75
14:25	East O_2	4.05	CO 64	West O_2	4.18	CO 92
14:30	East O_2	4.10	CO 66	West O_2	4.16	CO 63

D1 .2225	D2 .6240	D3 .5787	D4 .5699	D5 .5071	D6 .5153
H1 bad	H2 .4550	H3 .5778	H4 .5214	H5 .4292	H6 .4342
C1 .4843	C2 .6349	C3 .4458	C4 .3972	C5 .4828	C6 bad
G1 .4995	G2 .5070	G3 .3673	G4 .4740	G5 .3580	G6 .4460

B1 .4985	B2 .2284	B3 .3907	B4 .3446	B5 .5330	B6 .5382
F1 .0243	F2 .3705	F3 .4896	F4 .4657	F5 .5842	F6 2.1946
A1 .4233	A2 .6246	A3 .4646	A4 .4508	A5 .2555	A6 .3445
E1 .3527	E2 .4767	E3 .4739	E4 .5586	E5 .6113	E6 .4083

9" 15:10 done 9th knotch on inner air OR still 9" spin 3"

Test 9

15:10	East O_2	4.13	CO 58	West O_2	4.13	CO 61
15:15	East O_2	3.97	CO 66	West O_2	3.98	CO 71
15:20	East O_2	3.96	CO 77	West O_2	4.19	CO 61
15:25	East O_2	~~4.17~~	CO ~~12~~	West O_2	3.99	CO 48
15:30	East O_2	4.11	CO 12	West O_2	4.24	CO 33
15:35	East O_2	3.94	CO 39	West O_2	4.23	CO 49
15:40	East O_2	3.93	CO 27	West O_2	4.19	CO 46
15:45	East O_2	4.61	CO 16	West O_2	4.19	CO 38
15:50	East O_2		CO	West O_2		CO

Recal'd east side CO 44 high 4% high CO_2

D1 .1559	D2 .6071	D3 .5532	D4 .5530	D5 .4929	D6 .5046
H1 bad	H2 .4451	H3 .5543	H4 .5116	H5 .4221	H6 .4260
C1 .4736	C2 .6211	C3 .4453	C4 .3892	C5 .4767	C6 bad
G1 .4927	G2 .5073	G3 .3551	G4 .4778	G5 .3583	G6 .4436

B1 .4893	B2 .2233	B3 .5796	B4 .3381	B5 .5214	B6 .5256
F1 .0046	F2 .3568	F3 .4882	F4 .4539	F5 .5698	F6 1.9536
A1 .4115	A2 .6112	A3 .4702	A4 .4396	A5 .2482	A6 .3345
E1 .3453	E2 .4590	E3 .4622	E4 .5416	E5 .5939	E6 .3962

16:00 East O_2 4.02 CO 27 West O_2 4.21 CO 79

4-23-04 moved inner to 5th hole OR 9" Spin 3"
All 8 Pulv I/s

	10:15	East O_2	4.38	CO	31	West O_2	3.95	CO 29
	10:20	East O_2	4.42	CO	29	West O_2	4.05	CO 51
	10:25	East O_2	4.39	CO	10	West O_2	3.84	CO 104
Test 10	10:30	East O_2	4.34	CO	12	West O_2	3.88	CO 58
	10:35	East O_2	4.46	CO	6	West O_2	4.02	CO 23
	10:40	East O_2	4.37	CO	6	West O_2	3.74	CO 63
	10:45	East O_2	4.11	CO	24	West O_2	3.68	CO 48

moved Spin 3" to 2" (≈ 30° spin) OR 9" 5th hole inner

2", 3", 4.5"
30 45 60

	11:30	East O_2	3.90	CO	49	West O_2	4.34	CO 47
	11:35	East O_2	3.78	CO	70	West O_2	4.28	CO 49
	11:40	East O_2	3.78	CO	68	West O_2	4.30	CO 71
	11:45	East O_2	3.83	CO	71	West O_2	4.25	CO 69
Test 11	11:50	East O_2	3.80	CO	89	West O_2	4.48	CO 36
	11:55	East O_2	3.98	CO	56	West O_2	4.56	CO 23
	12:00	East O_2	3.76	CO	69	West O_2	4.51	CO 27
	12:05	East O_2	3.84	CO	64	West O_2	4.51	CO 27 .387
	12:10	East O_2	3.84	CO	60	West O_2	4.57	CO 31 NOX
	12:15	East O_2	3.86	CO	49	West O_2	4.63	CO 28

move Spin From 2" to 4.5" 5th hole inner OR 9"

	13:10	East O_2	4.04	CO	5	West O_2	4.17	CØ 0
	13:15	East O_2	3.82	CO	5	West O_2	4.09	CØ 0
	13:20	East O_2	3.80	CO	5	West O_2	4.01	CØ 0
	13:25	East O_2	3.79	CO	5	West O_2	4.13	CØ 0 .404
Test 12	13:30	East O_2	3.98	CO	4	West O_2	4.02	CØ 0 NOX
	13:35	East O_2	3.83	CO	6	West O_2	4.00	CØ 0
	13:40	East O_2	3.79	CO	7	West O_2	4.15	CØ 0
	13:45	East O_2	3.85	CO	5	West O_2	4.16	CØ 0
	13:55	East O_2	3.76	CO	8	West O_2	4.12	CO 0
	14:00	East O_2	3.86	CO	7	West O_2	4.23	CO 0

move 3 3/4" Spin 5th hole inner OR 9"

	14:20	East O_2	3.97	CO	16	West O_2	3.88	CO 36
	14:25	East O_2	4.19	CO	11	West O_2	3.94	CO 15
	14:30	East O_2	4.21	CO	10	West O_2	3.72	CO 57
	14:35	East O_2	4.20	CO	8	West O_2	3.74	CO 61
	14:40	East O_2	4.13	CO	10	West O_2	3.64	CO 32
Test 13	14:45	East O_2	4.25	CO	8	West O_2	3.43	CO 63
	14:50	East O_2	3.99	CO	15	West O_2	3.58	CO 85
	14:55	East O_2	4.15	CO	9	West O_2	3.78	CO 19
	15:00	East O_2	4.03	CO	45	West O_2	3.62	CO 43

4-26-04 OR 9" Spin 3 3/4" inner 5th hole (showing 7, pin in 8th)

08:07	East O2	3.91	CO	10	West O2	3.10	CO	434
08:15	East O2	3.91	CO	24	West O2	3.04	CO	390
08:20	East O2	3.94	CO	14	West O2	3.06	CO	587
08:25	East O2	3.88	CO	16	West O2	3.17	CO	343

E pulv d/s

All 8 pulv I/s OR 9" Spin 3 3/4" inner 5th ~~hole~~ holes

14

09:15	East O2	3.93	CO	-12	West O2	4.07	CO	0
09:20	East O2	3.95	CO	-13	West O2	3.85	CO	2
09:25	East O2	4.03	CO	-11	West O2	3.91	CO	4
09:30	East O2	4.07	CO	-13	West O2	3.79	CO	7
09:35	East O2	4.10	CO	-11	West O2	3.91	CO	10
09:40	East O2	3.93	CO	-13	West O2	3.82	CO	7
09:45	East O2	3.94	CO	-14	West O2	3.83	CO	4
09:50	East O2	3.79	CO	-14	West O2	3.98	CO	7
09:55	East O2	3.73	CO	-12	West O2	3.75	CO	30
10:00	East O2	3.89	CO	-15	West O2	3.58	CO	15

Cal'd east side off ≈ 15 CO

move inner 5th to 7th hole (5 showing, pin in 6th from end)

15

10:30	East O2	3.90	CO	11	West O2	3.65	CO	23
10:35	East O2	4.02	CO	34	West O2	3.56	CO	37
10:40	East O2	3.92	CO	59	West O2	3.63	CO	47
10:45	East O2	3.90	CO	52	West O2	3.80	CO	17
10:50	East O2	3.98	CO	53	West O2	3.78	CO	1
10:55	East O2	4.00	CO	52	West O2	3.88	CO	6
11:00	East O2	3.82	CO	51	West O2	3.65	CO	40

~~Ftes~~

11:45 moved inner to 9th hole (3 showing, pin on 4th from end)

11:50	East O2	4.09	CO	52	West O2	3.66	CO	17
11:55	East O2	4.16	CO	51	West O2	3.52	CO	42
12:00	East O2	4.06	CO	58	West O2	3.44	CO	33
12:05	East O2	3.96	CO	54	West O2	3.36	CO	141
12:10	East O2		CO		West O2	3.78	CO	30

recalibrated both sides

16

12:20	East O2	4.03	CO	4	West O2	3.57	CO	118
12:25	East O2	3.94	CO	6	West O2	3.41	CO	193
12:30	East O2	3.85	CO	5	West O2	3.50	CO	161
12:35	East O2	3.90	CO	6	West O2	3.53	CO	130
12:40	East O2	4.06	CO	4	West O2	3.66	CO	83
12:45	East O2	4.10	CO	4	West O2	3.49	CO	145
12:50	East O2	4.08	CO	5	West O2	3.58	CO	86
12:55	East O2	4.02	CO	4	West O2	3.76	CO	104
13:00	East O2	3.86	CO	7	West O2	3.60	CO	99

IP7_032806

U2

4-26-04 OR 9" Spin 3 3/4" inner 4th hole

14:30	East O2	3.91	CO	0	West O2	3.36	CO	41
14:35	East O2		CO		West O2		CO	
14:40	East O2		CO		West O2		CO	

Changed east bubbler 14:45 ↓ 20

17

14:45	East O2	3.87	CO	-9 (11)	West O2	3.50	CO	72
14:50	East O2	3.47	CO	-9 (11)	West O2	3.49	CO	67
14:55	East O2	3.38	CO	-8 (12)	West O2	3.60	CO	33
15:00	East O2	3.25	CO	2 (22)	West O2	3.73	CO	13
15:05	East O2	3.27	CO	8 (28)	West O2	3.75	CO	22
15:10	East O2	cal'd	CO	—	West O2	3.74	CO	38
15:15	East O2	—	CO	—	West O2	3.72	CO	35
15:20	East O2	3.35	CO	9	West O2	3.61	CO	78
15:25	East O2	2.97	CO	46	West O2	3.94	CO	14
15:30	East O2	3.21	CO	31	West O2	3.75	CO	32
15:35	East O2	3.23	CO	20	West O2	3.57	CO	128
15:40	East O2	3.28	CO	22	West O2	3.75	CO	41
15:45	East O2	3.35	CO	18	West O2	3.63	CO	101

4-27-04 OR 9" Spin 3 3/4" inner 4th hole

F O/S not @ full load

18

07:40	East O2	3.02	CO	27	West O2	3.94	CO	32
07:45	East O2	3.23	CO	65	West O2	3.89	CO	29
07:50	East O2	2.86	CO	51	West O2	3.85	CO	42
07:55	East O2	2.77	CO	22	West O2	3.74	CO	81
08:00	East O2	2.57	CO	109	West O2	3.78	CO	118
08:05	East O2	2.41	CO	170	West O2	3.77	CO	158
08:10	East O2	2.58	CO	102	West O2	3.91	CO	143
08:15	East O2	2.51	CO	110	West O2	3.55	CO	253

CR O2 East 2.5 W 3.4

6966

All Pulv I/s F2 swing gate problem

950MW

19

10:35	East O2	3.20	CO	14	West O2	3.65	CO	64
10:40	East O2	3.23	CO	12	West O2	3.62	CO	67
10:45	East O2	2.99	CO	36	West O2	3.56	CO	43
10:50	East O2	3.13	CO	13	West O2	3.36	CO	60
10:55	East O2	3.38	CO	10	West O2	3.52	CO	24
11:00	East O2	3.16	CO	39	West O2	3.41	CO	34
11:05	East O2	3.20	CO	14	West O2	3.41	CO	55
11:10	East O2	3.11	CO	11	West O2	3.36	CO	116
11:15	East O2	3.12	CO	11	West O2	3.32	CO	49

@ 11:40 Finished with Changes

11:45	East O2	3.16	CO	22	West O2	3.84	CO	13

Rckt

12:45	East O2	3.34	CO	16	West O2	3.74	CO	20
12:50	East O2	3.37	CO	14	West O2	3.77	CO	19

IP7_032807

4-27-04 All pulv I/s SA moved to 3 3/4" spin 4th hole inner OR to calc'd positions

20

12:55	East O2	3.30	CO	10	West O2	3.83	CO 30
13:00	East O2	3.52	CO	10	West O2	3.97	CO 18
13:05	East O2	3.84	CO	5	West O2	4.00	CO 11
13:10	East O2	3.35	CO	12	West O2	3.59	CO 20
13:15	East O2	3.45	CO	9	West O2	4.06	CO 14

Profile with all eight I/s

15:05	East O2	3.48	CO	12	West O2	3.84	CO 25
15:10	East O2	3.73	CO	11	West O2	4.06	CO 10
15:15	East O2	3.41	CO	12	West O2	3.94	CO 5
15:20	East O2	3.52	CO	12	West O2	3.88	CO 7
15:25	East O2	3.71	CO	12	West O2	3.98	CO 5
15:30	East O2	3.47	CO	17	West O2	3.83	CO 12
15:35	East O2	3.54	CO	14	West O2	3.84	CO 28

4-28-04 C Pulv O/S

21

9:35	East O2	4.17	CO	243	West O2	3.52	CO 534

9:45 Profile

11:15	East O2	4.42	CO	254	West O2	3.26	CO 653
11:20	East O2	4.43	CO	271	West O2	3.08	CO 761
11:25	East O2	4.39	CO	276	West O2	3.02	CO 555
11:30	East O2	4.42	CO	262	West O2	3.05	CO 737
11:35	East O2	4.46	CO	145	West O2	3.25	CO 357
11:40	East O2	4.52	CO	260	West O2	3.21	CO 543
11:45	East O2	4.36	CO	216	West O2	3.03	CO 747
12:00	East O2	4.33	CO	188	West O2	3.15	CO 540
12:05	East O2	4.33	CO	170	West O2	3.20	CO 563

D Pulv O/S

22

13:10	East O2	3.86	CO	92	West O2	3.08	CO 665

~~13:15~~ 13:15 - 15:30 profile

15:20	East O2	3.68	CO	97	West O2	3.69	CO 276
15:25	East O2	3.67	CO	102	West O2	3.69	CO 271
15:30	East O2	3.69	CO	142	West O2	3.75	CO 215
15:35	East O2	3.73	CO	137	West O2	3.72	CO 256
15:40	East O2	3.93	CO	65	West O2	367	CO 303

TOPS 35500

All Pulv I/S

Unit #2 Start Time 13:30 End Time 14:56

West 4-27-04 **% O2 East Duct** **East**

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1
14:18 3.9	14:10 3.0	14:02 3.2	13:54 3.22	13:46 2.2	13:38 3.4	13:30 3.5
14:20 4.1	14:12 3.5	14:04 3.1	13:56 2.9	13:48 2.3	13:40 2.3	13:32 2.4
14:22 4.7	14:14 3.6	14:06 4.0	13:58 4.6	13:50 3.9	13:42 3.2	13:34 3.7
14:24 5.6	14:16 5.3	14:08 4.7	14:00 6.5	13:52 5.5	13:44 3.9	13:36 3.7
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

56

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West **% O2 West Duct** **East**

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8
14:55:38 3.4	14:50:38 3.3	14:46:08 3.9	14:40:08 3.8	14:35:18 3.4	14:30:38 3.8	14:25:48 4.2
56:48 3.4	57:48 3.2	47:18 3.2	41:18 3.5	36:38 4.0	31:38 3.8	27:08 3.7
57:48 2.9	53:18 2.8	48:18 3.3	42:28 3.3	37:48 3.5	32:48 3.1	28:08 4.5
59:08 3.2	54:28 2.8	49:28 4.0	43:48 3.7	38:58 3.5	33:58 4.3	29:18 4.9
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

4-28-04 C Pulv O/S

Unit 1 2 Start Time 9:48:00 End Time 11:08:00

West **% O2 East Duct** **East**

Tap 7		Tap 6		Tap 5		Tap 4		Tap 3		Tap 2		Tap 1	
24:00	4.9	18:30	5.1	12:30	3.7	06:30	3.6	10:00:30	2.5	54:40	2.7	9:48:00	2.7
25:30	5.1	19:50	5.5	14:00	4.0	08:00	3.2	01:40	2.0	56:10	1.5	49:50	2.1
27:00	5.6	21:10	6.1	15:30	4.9	09:30	5.3	03:10	3.1	57:40	1.1	51:30	2.8
28:20	5.5	22:30	6.8	17:00	5.5	10:50	7.5	04:40	4.7	59:10	2.8	53:10	3.2
Column Averages													
#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!	

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West **% O2 West Duct** **East** 10:30

Tap 14		Tap 13		Tap 12		Tap 11		Tap 10		Tap 9		Tap 8	
03:40	2.6	58:10	3.2	52:20	3.3	47:00	3.6	40:30	3.5	35:20	3.9	30:00	4.6
05:00	2.7	59:30	2.6	54:20	2.3	48:20	2.7	42:50	2.5	36:30	3.6	31:30	4.7
06:30	1.7	11:01:00	2.0	55:30	2.9	49:40	1.6	44:20	2.0	37:50	2.9	32:50	5.2
08:00	1.6	02:20	1.4	57:00	3.2	51:00	3.5	45:30	3.0	39:10	3.8	34:10	5.3
Column Averages													
#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!	

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

IP7_032810

D pulv o/s
4-28-04

Unit ~~1~~ 2 Start Time 13:20 End Time 15:14

West — % O2 East Duct — East

	Tap 7	Tap 6 14:00	Tap 5 13:	Tap 4 13:	Tap 3 13:	Tap 2 13:00	Tap 1
1	3.8 12:20	3.6 03:20	3.1 54:00	3.1 44:30	2.2 34:30	2.8 25:00	2.4 13:19
2	4.1 14:40	4.2 05:30	3.6 57:00	2.8 47:00	1.6 37:00	2.2 29:30	1.9 13:21
3	4.1 16:20	4.9 08:30	4.0 59:00	2.7 50:00	3.0 39:30	2.7 31:00	2.2 13:23
4	4.9 18:20	5.4 10:30	5.1 14:01	5.7 52:00	5.4 41:00	2.9 33:00	3.3 13:25
Column Averages	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West — % O2 West Duct — East

	Tap 14	Tap 13 15:00	Tap 12 14:00	Tap 11 14:00	Tap 10 14:00	Tap 9 14:00	Tap 8 14:00
1	2.3 09:00	2.6 01:40	3.0 53:40	3.2 45:00	2.5 36:20	3.6 30:40	3.7 ~~14:~~
2	2.9 10:40	1.4 03:20	2.2 56:00	2.7 47:00	2.4 38:40	4.3 —	3.7 22:20
3	1.5 12:20	1.4 05:00	2.5 57:40	3.5 49:00	3.4 41:20	3.7 32:40	4.8 25:00
4	1.7 14:00	1.8 07:00	3.6 15:00	5.0 52:20	4.4 43:20	5.1 34:20	5.4 27:40
Column Averages	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

depths 2 & 3 west ± 2.0 %O2 variance

CO + 1000 → 0

IP7_032811

4-29-04

4-28-04 Unit 2 E Pulv o/s Spin 3 3/4" inner 4th hole

08:00	East O2	3.89	CO	64	West O2	2.31	CO 1228 +
08:05	East O2	3.74	CO	116	West O2	2.20	CO 1228 +
08:10	East O2	3.55	CO	170	West O2	2.28	CO 1228 +
08:15	East O2	3.61	CO	205	West O2	2.32	CO 1228 +
09:15	East O2	3.85	CO	124	West O2	2.73	CO 1006

23

profile w/ E o/s

11:15	East O2	3.99	CO	65	West O2	2.41	CO 1228 +
11:20	East O2	4.05	CO	75	West O2	2.51	CO 1228 +
11:25	East O2	4.00	CO	83	West O2	2.28	CO 1228 +
11:30	East O2	3.83	CO	55	West O2	2.57	CO 1228 +
11:35	East O2	3.77	CO	72	West O2	2.58	CO 1228 +
11:40	East O2	3.87	CO	165	West O2	2.36	CO 1228 +
11:45	East O2	3.87	CO	125	West O2	2.41	CO 1228 +

Swap with A pulv o/s

12:50	East O2	2.99	CO	412	West O2	3.06	CO 587
13:00	East O2	3.13	CO	245	West O2	2.70	CO 1228 +
13:05	East O2	2.96	CO	373	West O2	2.84	CO 888

profile A o/s

14:20	East O2	2.74	CO	373	West O2	2.99	CO 632
14:25	East O2	2.75	CO	305	West O2	3.10	CO 683
14:30	East O2	2.85	CO	373	West O2	2.87	CO 637
14:35	East O2	3.14	CO	141	West O2	2.81	CO 847
14:40	East O2	2.95	CO	216	West O2	2.81	CO 1159
14:45	East O2	2.75	CO	256	West O2	2.86	CO 946
14:50	East O2		CO		West O2		CO
14:55	East O2	2.99	CO	315	West O2	2.86	CO 947
15:00	East O2	3.23	CO	185	West O2	2.96	CO 993
15:05	East O2	3.20	CO	209	West O2	2.96	CO 900
15:10	East O2	3.25	CO	198	West O2	3.04	CO 814
15:15	East O2	3.35	CO	186	West O2	2.87	CO 891
15:20	East O2	3.56	CO	123	West O2	2.99	CO 982
15:25	East O2	3.67	CO	118	West O2	3.26	CO 558
15:30	East O2	3.42	CO	135	West O2	3.40	CO 614
15:35	East O2	3.41	CO	67	West O2	3.46	CO 425
15:40	East O2	3.31	CO	59	West O2	3.24	CO 447

bumped O2 up →

24

TOPS 35500

4-~~28~~-04 29 E Pulv O/S

Unit ~~1~~ 2 Start Time 10:00 End Time _____ - Dual Readings

West **% O2 East Duct** - 1st **East**

Tap 7 O2/CO Time 11:_:_	Tap 6 O2/CO - Time 10:_:_	Tap 5 O2/CO - time 10:_:_	Tap 4 O2/CO - Time 10:_:_	Tap 3 O2/CO Time 10:_:_	Tap 2 O2/CO% 10:_	Tap 1 O2/CO%	
4.5/2-58:40	4.5/0-49:30	4.4/2-40:50	4.4/2-32:10	4.5/25-21:10	4.2/51-10:30	3.7/76	
4.6/6-00:50	4.6/0-51:50	4.6/14-43:00	4.0/12-34:30	4.1/2-24:00	3.8/30-13:40	3.6/42	10:03:20
4.5/16-03:40	4.6/0-54:10	3.9/224-45:10	3.4/204-36:20	2.9/243-26:30	3.1/66-16:00	4.0/26	5:20
4.6/41-05:20	4.8/3-56:20	4.1/60-47:30	4.8/104-38:20	3.7/477-29:10	2.9/219-18:40	3.3/363	8:00
Column Averages							
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West **% O2 West Duct** - 2ND **East**

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10 O2/CO time 10:_:_	Tap 9 O2/CO 10:	Tap 8 O2/CO	
2.7/1136-59:10	3.1/1214-50:10	2.3/Max-41:30	2.9/Max-32:30	2.5/Max-21:40	4.0/456+10:50	3.5/178	
3.7/597-01:30	1.9/900-53:10	3.0/Max-43:30	2.1/Max-34:50	1.4/Max-24:40	2.2/1193-14:00	4.3/40	10:03:20
2.7/Max-04:10	1.3/Max-54:50	2.6/Max-45:30	2.0/Max-37:00	1.4/Max-27:00	2.7/1228-16:20	3.7/258	5:40
1.2/Max-6:30	1.3/Max-57:00	3.3/1200-47:50	2.3/Max-39:00	2.2/Max-29:30	2.7/Max-18:50	3.9/391	8:20
Column Averages							
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

IP7_032813

4-~~28~~-04 A Pulv O/S
29

Dual Readings

Unit ~~1~~ 2 Start Time 13:~~12~~ 09 End Time

West **% O2 East Duct** 1st **East**

Tap 7 (14:_:_)	Tap 6 (13:_:_)	Tap 5	Tap 4	Tap 3 (O2/CO Time 13:_:_)	Tap 2 (O2/CO-Time 13:_:_)	Tap 1 (O2/CO Time 13:_:_)
4.8/0-05:50	4.5/0-55:50	3.8/29-46:50	4.6/10-37:40	2.9/146-28:40	3.1/147-19:40	3.0/121-10:50
4.0/12-8:00	4.5/0-58:00	4.0/18-49:10	4.3/18-39:30	3.0/34-30:30	2.3/186-21:40	2.7/99-13:10
3.7/42-10:30	4.2/0-01:30	3.6/170-51:10	3.8/288-41:40	2.8/576-32:30	1.8/505-23:40	2.7/326-15:30
4.5/28-12:20	4.4/6-03:40	3.8/51-53:30	5.1/20-44:10	3.8/456-34:40	2.2/901-26:00	2.6/533-17:20
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West **% O2 West Duct** 2ND **East**

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8
3.4/405-6:20	4.2/191-56:30	3.7/536-47:20	3.6/510-38:00	3.5/800-29:00	3.5/596-20:00	3.5/293-11:10
3.5/176-8:40	2.7/500-59:50	2.9/614-49:50	2.4/Max-40:10	2.9/1228-31:00	4.2/252-22:10	3.4/179-14:10
2.5/1137-11:00	2.1/1208-02:10	3.8/159-52:10	2.7/893-42:30	2.2/1228-33:00	2.8/349-24:20	3.6/316-16:00
1.7/MAX-13:00	1.7/Max-4:20	2.8/1208-54:10	3.0/852-45:10	2.2/Max-35:10	2.5/1228-26:30	3.7/613-17:50
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

IP7_032814

Unit 2
4-30-04 H Pulv o/s spin 3 3/4" inner 4th hole OR @ setting #1 calc

7:40	East O2	3.36	CO	111	West O2	3.38	CO 270
7:45	East O2	3.49	CO	48	West O2	3.36	CO 253
7:50	East O2	3.77	CO	29	West O2	3.32	CO 317
7:55	East O2	3.42	CO	45	West O2	3.60	CO 154
8:00	East O2	3.57	CO	48	West O2	3.22	CO 268
8:05	East O2	3.50	CO	55	West O2	3.20	CO 660
8:10	East O2	3.75	CO	26	West O2	3.42	CO 299
08:15	East O2	3.67	CO	47	West O2	3.53	CO 227
08:40	East O2	3.75	CO	19	West O2	3.52	CO 372
08:45	East O2	3.61	CO	19	West O2	3.54	CO 264
08:50	East O2	3.50	CO	91	West O2	3.30	CO 565

#25

OR moves (set # 2)

10:00	East O2	3.65	CO	33	West O2	3.61	CO 302
10:05	East O2	3.63	CO	20	West O2	3.51	CO 220
10:10	East O2	3.47	CO	19	West O2	3.88	CO 240
10:15	East O2	4.09	CO	6	West O2	3.45	CO 396
10:20	East O2	3.33	CO	27	West O2	3.70	CO 200
10:25	East O2	3.51	CO	21	West O2	3.71	CO 188
10:30	East O2	3.63	CO	23	West O2	3.45	CO 314
10:35	East O2	3.61	CO	31	West O2	3.56	CO 320
10:40	East O2	3.59	CO	19	West O2	3.65	CO 125

@ 11:00 moved #6 on back wall 3 3/4" to 4 1/4"

11:05	East O2	3.40	CO	51	West O2	3.45	CO 690
11:10	East O2	3.52	CO	25	West O2	3.61	CO 400
11:15	East O2	3.21	CO	165	West O2	3.52	CO 562
11:20	East O2	3.48	CO	111	West O2	3.50	CO 565
11:25	East O2	3.31	CO	98	West O2	3.70	CO 417

moved #6 back wall back to 3 3/4" spin

11:35	East O2	3.84	CO	27	West O2	3.53	CO 326
11:40	East O2	3.42	CO	46	West O2	3.58	CO 271
11:45	East O2	3.08	CO	69	West O2	3.77	CO 168
11:50	East O2	3.19	CO	145	West O2	3.86	CO 333

moved #6 to 3 1/4" Spin

12:05	East O2	3.44	CO	38	West O2	3.39	CO 191
12:10	East O2	3.47	CO	57	West O2	3.68	CO 38
12:15	East O2	3.29	CO	89	West O2	3.48	CO 70
12:20	East O2	3.29	CO	77	West O2	3.70	CO 75
12:25	East O2	3.16	CO	100	West O2	3.70	CO 69

TOPS 35500

4-30-04

Unit 2 4-30-04 H pulv O/S Spin & #6 back wall @ 3 1/4"

Continued

12:30	East O2	3.36	CO	58	West O2	3.63	CO	63
12:35	East O2	3.14	CO	96	West O2	3.91	CO	68
12:40	East O2	3.30	CO	38	West O2	3.89	CO	40
12:45	East O2	3.18	CO	60	West O2	3.92	CO	50
12:50	East O2	3.19	CO	43	West O2	3.73	CO	66

move back wall #5 3 3/4" to 3 1/4" on spin

13:00	East O2	3.37	CO	33	West O2	3.61	CO	80
13:05	East O2	3.42	CO	23	West O2	3.48	CO	210
13:10	East O2	3.35	CO	102	West O2	3.14	CO	277
13:15	East O2	3.62	CO	74	West O2	3.16	CO	229

move back wall #5 back to 3 3/4"

13:25	East O2	3.15	CO	45	West O2	3.94	CO	31
13:30	East O2	2.75	CO	393	West O2	3.96	CO	37
13:35	East O2	3.08	CO	76	West O2	3.77	CO	40
13:40								

move back wall #1 3 3/4" to 3 1/4" done @ 13:45

13:50	East O2	2.60	CO	274	West O2	4.53	CO	14
13:55	East O2	2.97	CO	77	West O2	4.22	CO	17
14:00	East O2	2.89	CO	114	West O2	4.30	CO	9
14:05	East O2	3.07	CO	85	West O2	4.22	CO	27
14:10								

to big O2 split move #1 back to 3 3/4" done 14:15

14:20	East O2	3.37	CO	64	West O2	3.77	CO	98
14:25	East O2	4.12	CO	13	West O2	3.23	CO	223
14:30	East O2	3.93	CO	30	West O2	3.60	CO	110

* Aaron made changes set #3

#26

14:40	East O2	3.96	CO	49	West O2	4.00	CO	193
14:45	East O2	3.91	CO	273	West O2	4.05	CO	191
14:50	East O2	3.50	CO	68	West O2	4.01	CO	76
14:55	East O2	3.24	CO	64	West O2	4.45	CO	89
15:00	East O2	3.56	CO	19	West O2	3.84	CO	66
15:05	East O2	3.22	CO	32	West O2	4.36	CO	53
15:10	East O2	3.67	CO	28	West O2	4.04	CO	185
15:15	East O2	3.21	CO	50	West O2	4.46	CO	70
15:20	East O2	3.48	CO	32	West O2	4.28	CO	65
15:25	East O2	3.46	CO	18	West O2	4.17	CO	42
15:30	East O2	3.37	CO	38	West O2	4.35	CO	73

TOPS 35500

5-3-04 Unit 2

G Pulv o/S r# 3

08:20	East O2	2.84	CO	157	West O2	4.14	CO	475
08:25	East O2	2.60	CO	227	West O2	3.48	CO	1228 +
08:30	East O2	2.45	CO	426	West O2	3.22	CO	1228 +
08:35	East O2	2.60	CO	208	West O2	3.99	CO	512
08:40	East O2	2.49	CO	377	West O2	3.53	CO	970
08:45	East O2	2.31	CO	706	West O2	3.22	CO	1228 +
08:50	East O2	2.48	CO	514	West O2	3.89	CO	671
08:55	East O2	2.28	CO	656	West O2	3.40	CO	1158
09:00	East O2	2.32	CO	976	West O2	3.66	CO	840
09:05	East O2	2.11	CO	1218	West O2	3.61	CO	632
09:10	East O2	2.33	CO	522	West O2	3.52	CO	1025
09:15	East O2	2.18	CO	1004	West O2	3.60	CO	972

#27

@ 10:40 moved to r3 Settings #6 back wall @ 3 1/4" spin

10:45	East O2	2.59	CO	527	West O2	3.37	CO	1228 +
10:50	East O2	2.69	CO	377	West O2	3.50	CO	1228 +
10:55	East O2	2.76	CO	218	West O2	3.47	CO	1228 +
11:00	East O2	2.66	CO	300	West O2	3.36	CO	1228 +
11:05	East O2	2.49	CO	812	West O2	3.53	CO	1228 +
11:10	East O2	2.65	CO	168	West O2	3.42	CO	1228 +
11:15	East O2	2.51	CO	216	West O2	3.37	CO	1175

move back row #6 spin 3 1/4" to 3 3/4"

@ 11:20

11:25	East O2	2.65	CO	291	West O2	3.26	CO	1228 +
11:30	East O2	2.70	CO	272	West O2	3.19	CO	1228 +
12:45	East O2	2.71	CO	205	West O2	3.26	CO	1228 +
12:50	East O2	2.65	CO	262	West O2	3.31	CO	1228 +
12:55	East O2	2.51	CO	770	West O2	3.22	CO	1228 +
13:00	East O2	2.59	CO	419	West O2	3.32	CO	1228 +
13:05	East O2	2.57	CO	241	West O2	3.32	CO	1228 +
13:16	East O2	2.64	CO	256	West O2	3.14	CO	1228 +

moved Setting #4 (closing in on OR)

13:25 done

13:30	East O2	2.55	CO	474	West O2	3.48	CO	1006
13:35	East O2	2.45	CO	1012	West O2	3.26	CO	1228 +
13:40	East O2	2.82	CO	292	West O2	3.41	CO	1053
13:45	East O2	2.86	CO	218	West O2	3.59	CO	1135
13:50	East O2	2.88	CO	264	West O2	3.45	CO	1228+
13:55	East O2	2.95	CO	145	West O2	3.73	CO	929
14:00	East O2	2.96	CO	395	West O2	3.68	CO	935
14:05	East O2	3.01	CO	176	West O2	3.64	CO	643
14:10	East O2	2.98	CO	145	West O2	3.77	CO	568
14:15	East O2	2.87	CO	298	West O2	3.81	CO	706
14:20	East O2	2.76	CO	477	West O2	3.46	CO	842
14:25	East O2	2.83	CO	556	West O2	3.63	CO	1040

#28

#5

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IP7_032817

U2

5-3-04 F#5 G Pulv O/S

#29

14:45	East O2	2.88	CO	361	West O2	4.01	CO 698
14:50	East O2	3.02	CO	313	West O2	3.89	CO 694
14:55	East O2	2.96	CO	258	West O2	3.47	CO 793
15:00	East O2	2.75	CO	571	West O2	3.77	CO 839
15:05	East O2	2.93	CO	361	West O2	3.86	CO 685
15:10	East O2	2.81	CO	406	West O2	3.80	CO 914
15:15	East O2	2.83	CO	534	West O2	3.74	CO 645
15:25	East O2	2.74	CO	628	West (east side) O2	3.66	CO 901
15:30	East O2	2.71	CO	460	West-west O2	3.77	CO 920

5-4-04 B Pulv O/S @ setting #5, spin 3 3/4", inner 4th hole

#30

07:30	East O2	3.45	CO	309	West O2	2.81	CO 1228 +
07:35	East O2	3.36	CO	296	West O2	2.92	CO 1228 +
07:40	East O2	3.20	CO	257	West O2	2.79	CO 1228+
07:45	East O2	3.07	CO	327	West O2	2.76	CO 1228+
07:50	East O2	3.15	CO	245	West O2	2.76	CO 1228+
07:55	East O2	3.07	CO	198	West O2	2.78	CO 1228+
08:00	East O2	2.94	CO	251	West O2	2.73	CO 1228+

raised O2

08:25	East O2	3.40	CO	155	West O2	2.66	CO 1228+
08:30	East O2	3.80	CO	25	West O2	3.26	CO 875
08:35	East O2	3.59	CO	39	West O2	3.30	CO 860

move D row spin 3 3/4 to 4 1/4"

08:45	East O2	3.77	CO	198	West O2	3.08	CO 455
08:50	East O2	3.77	CO	84	West O2	2.84	CO 993
08:55	East O2	3.99	CO	61	West O2	2.98	CO 803
09:00	East O2	3.84	CO	125	West O2	2.94	CO 1014

move H row spin 3 3/4 to 4 1/4"

09:10	East O2	4.00	CO	39	West O2	2.78	CO 1228 +
09:15	East O2	3.92	CO	84	West O2	2.66	CO 1228 +
09:20	East O2		CO		West O2		CO

moved H back 3 3/4, D row to 3 1/4"

D Fdr trip

09:30	East O2	3.55	CO	228	West O2	2.65	CO 1228+
09:35	East O2	3.65	CO	190	West O2	2.48	CO 1228+
09:40	East O2		CO		West O2		CO

Unit upset, Fdr will not run.
putting B pulv I/S, leaving D off

D O/S

#31

12:20	East O2	3.73	CO	233	West O2	2.36	CO 1228+
12:25	East O2	3.74	CO	208	West O2	2.31	CO 1228+

12:15 D back @ 3 3/4"

12:45

TOPS 35500

U2 5-4-03 Spin all @ 3 3/4" inner 4th hole OR @ #5 setting
D Pulv o/s

12:35	East O2	3.89	CO 167	West O2	2.56	CO	1228+
12:40	East O2	3.95	CO 119	West O2	2.51	CO	1228+
12:45	East O2	3.76	CO 112	West O2	2.45	CO	1228+

move OR back wall to 7" all burners

13:10	East O2	3.72	CO 267	West O2	2.33	CO	1228+
13:15	East O2	3.90	CO 106	West O2	2.16	CO	1228+
13:20	East O2	3.84	CO 180	West O2	2.26	CO	1228+
13:25	East O2	3.84	CO 107	West O2	2.59	CO	1228+
13:30	East O2	3.88	CO 67	West O2	2.94	CO	1228+

moved E Row OR to 7"

14:00	East O2	4.20	CO 23	West O2	3.25	CO	1228+

moved A + F OR to 7"

14:15	East O2	4.63	CO 7	West O2	3.79	CO	221
14:20	East O2	4.54	CO 18	West O2	3.00	CO	882
14:25	East O2	4.55	CO 12	West O2	3.23	CO	810

Setting B OR to 7"

14:30	East O2	4.47	CO 16	West O2	3.65	CO	196
14:35	East O2	4.44	CO 25	West O2	3.47	CO	480
14:40	East O2	4.43	CO 48	West O2	3.61	CO	166
14:45	East O2	4.26	CO 59	West O2	3.53	CO	428
14:50	East O2	4.59	CO 46	West O2	3.50	CO	317
14:55	East O2	4.66	CO 48	West O2	3.10	CO	1190
15:00	East O2	4.66	CO 55	West O2	3.10	CO	1228

32

every two minutes west side fluctuates from 180 ppm to 1228
O2 from 2.97 - to 3.65

15:05	East O2	4.81	CO 48	West O2	3.36	CO	588
15:10	East O2	4.58	CO 54	West O2	3.33	CO	390
15:15	East O2	4.75	CO 51	West O2	3.29	CO	340
15:20	East O2	4.38	CO 49	West O2	2.93	CO	1109
15:25	East O2	4.43	CO 44	West O2	3.10	CO	1175
15:30	East O2	4.48	CO 46	West O2	3.23	CO	1086

TOPS 35500

U2
5-5-04

D Pulv c/s 40% damper OR 7" Spin 3 3/4" inner 4th hole

07:50	East O2	3.76	CO 90	West O2	2.17	CO 866	
08:00							
08:10							
08:20							
08:30							
08:40							
08:50	East O2	3.16	CO 138	West O2	2.36	CO 1228+	
09:00	East O2	3.83	CO 41	West O2	2.50	CO 1228+	
09:10	East O2	~~3.39~~ 3.49	CO 41	West O2	~~2.56~~ 2.47	CO 1228+	
09:20	East O2	3.54	CO 41	West O2	2.67	CO 1228+	
09:30	East O2	3.71	CO 32	West O2	2.63	CO 1228+	
09:40	East O2	3.74	CO 33	West O2	2.51	CO 1228+	
09:45	East O2	3.63	CO 48	West O2	2.40	CO 1228+	
09:50	East O2	3.91	CO 41	West O2	2.40	CO 1228+	
put cooling air down 40% to 20-25%							
10:00	East O2	3.53	CO 36	West O2	2.74	CO 951	down to 753
10:05	East O2	3.65	CO 42	West O2	2.41	CO 1228+	
moved B row 8" OR position							
10:15	East O2	3.59	CO 40	West O2	2.85	CO 909	
10:20	East O2	3.32	CO 79	West O2	3.12	CO 427	down 209
10:25	East O2	3.47	CO 58	West O2	2.49	CO 1228+	down 400
10:30	East O2	3.49	CO 75	West O2	3.03	CO 1228	
moved G row 8" OR position							
10:40	East O2	3.65	CO 31	West O2	3.05	CO 618	down 420
10:45	East O2	3.65	CO 38	West O2	3.01	CO 795	
10:50	East O2	3.50	CO 76	West O2	2.66	CO 1200	
10:55	East O2	3.19	CO 95	West O2	3.05	CO 380	
O2 crossed on swing 11:00	East O2	3.38	CO 70	West O2	2.74	CO 1191	
moved F row 8" OR position				West damper shaft mark shows more closed than east side			
11:10	East O2	3.41	CO 32	West O2	2.98	CO 475	
11:15	East O2	3.34	CO 27	West O2	2.88	CO 510	
11:20	East O2	3.32	CO 41	West O2	2.86	CO 584	
11:25	East O2	3.44	CO 30	West O2	2.89	CO 672	
big improvement in CO swings							
moved C row 8" OR position							
11:35	East O2	3.31	CO 28	West O2	2.88	CO 763	
11:40	East O2	3.39	CO 57	West O2	2.72	CO 472	
11:45	East O2	3.35	CO 67	West O2	3.20	CO 409	
11:50	East O2	3.25	CO 100	West O2	3.77	CO 216	
11:55	East O2	3.29	CO 67	West O2	3.80	CO 161	lower but more unstable
12:00	East O2	3.68	CO 32	West O2	3.55	CO 245	
12:05	East O2	3.48	CO 32	West O2	3.70	CO 129	

5-5-04 Continued

D Pulv o/s

13:25	East O2	4.77	CO	15	West O2	3.78	CO	203
13:40	East O2	4.87	CO	16	West O2	3.85	CO	250

lowered air back down

13:55	East O2	4.87	CO	29	West O2	3.17	CO	782
14:00	East O2	4.90	CO	20	West O2	3.09	CO	843
14:05	East O2	4.74	CO	26	West O2	3.45	CO	306
14:10	East O2	4.76	CO	37	West O2	3.58	CO	295

moved A row 8" OR position

14:20	East O2	4.84	CO	40	West O2	3.29	CO	388
14:25	East O2	4.66	CO	72	West O2	3.54	CO	293
14:30	East O2	4.91	CO	40	West O2	3.65	CO	324 ← swinging
14:35	East O2	5.07	CO	37	West O2	2.62	CO	1228+
14:40	East O2	5.04	CO	20	West O2	3.20	CO	372

moved H row 8" OR position

14:50	East O2	4.69	CO	37	West O2	3.13	CO	328 ← spiked to top
14:55	East O2	5.05	CO	23	West O2	3.07	CO	653
15:00	East O2	4.98	CO	24	West O2	3.09	CO	881
15:05	East O2	4.83	CO	35	West O2	3.31	CO	460

5-6-04

F pulv o/s D Fdr has problems

08:50	East O2	4.26	CO	11	West O2	1.38	CO	1228 +
11:00	East O2	3.88	CO	179	West O2	2.92	CO	1228 +
11:05	East O2	4.42	CO	16	West O2	2.50	CO	1228+
11:10	East O2	4.63	CO	5	West O2	2.62	CO	1228+
11:15	East O2	4.48	CO	4	West O2	2.37	CO	1228+

D mill off F I/s

12:05	East O2	3.88	CO	27	West O2	2.82	CO	1228+
12:10	East O2	4.06	CO	34	West O2	2.75	CO	1228+
12:15	East O2	3.79	CO	124	West O2	3.56	CO	403
12:20	East O2	4.16	CO	4	West O2	2.96	CO	1228+
13:00	East O2	4.11	CO	9	West O2	2.54	CO	1228+
13:15	East O2	3.94	CO	0	West O2	2.83	CO	1215
13:20	East O2	3.80	CO	8	West O2	3.27	CO	1057

C Pulv was ground out

D o/s

14:10	East O2	4.10	CO	-42	West O2	3.33	CO	926
14:15	East O2	~~2.96~~ 4.28	CO	-24	West O2	3.73	CO	405
14:20	East O2	3.96	CO	6	West O2	3.43	CO	691
14:25	East O2	4.08	CO	-1	West O2	3.25	CO	1228 +

TOPS

U2 5-7-04 F Pulv o/s

10:00	East O2	5.34	CO 2	West O2	1.85	CO	1228 +
10:05	East O2	5.23	CO 2	West O2	2.32	CO	1228 +
10:10	East O2	5.43	CO 3	West O2	2.58	CO	1228 +

Stack ~~data~~ not started till 11:00

xcel 33 go 11:00 – 12:~~30~~ 45

12:10	East O2	4.30	CO 0	West O2	3.00	CO	1228 +
12:15	East O2	4.45	CO 2	West O2	2.58	CO	1228 +
12:20	East O2	4.22	CO 7	West O2	2.40	CO	1228+
12:25	East O2	4.17	CO 7	West O2	2.03	CO	1228 +
12:30	East O2		CO	West O2		CO	
12:45		4.33	CO 3	West O2	3.21	CO	981

raised Cooling air up to 50% on F

13:10	East O2	4.03	CO 4	West O2	3.53	CO	879
13:15	East O2	3.98	CO 2	West O2	3.86	CO	484
13:20	East O2	3.91	CO 2	West O2	3.58	CO	907
13:25	East O2	3.95	CO 2	West O2	3.54	CO	1033
13:30	East O2	3.86	CO 4	West O2	3.73	CO	492
13:35	East O2	3.76	CO 5	West O2	3.68	CO	592
13:40	East O2	3.98	CO 1	West O2	3.52	CO	926
13:45	East O2	4.05	CO 2	West O2	3.84	CO	502

raised Cooling air up to 75% on F

14:00	East O2	3.80	CO 8	West O2	3.49	CO	1228 +
14:05	East O2	3.86	CO 23	West O2	3.33	CO	1228 +
14:10	East O2	3.97	CO 5	West O2	3.38	CO	1228 +

As left E + D rows OR 7"
B, F, A, G, C, H rows OR 8"
Spin all 3 3/4"
inner 4th hole on all

TOPS 35500

IP7_032822

ABT- predicted outer air register settings for air flow balancing

4/20/04

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

			UNIT 2 Outer Air Register	**initial settings**	
Front	Pulv	1	11.0	**8.1**	
		2	11.0	**7.8**	
	E	3	11.0	**7.6**	min
		4	11.0	**7.6**	min
		5	11.0	**7.8**	
		6	11.0	**8.1**	
	Pulv	1	11.0	**8.7**	
		2	11.0	**8.4**	
	A	3	11 0	**8.2**	
		4	11.0	**8.2**	
		5	11.0	**8.4**	
		6	11.0	**8.7**	
	Pulv	1	11 0	**8.5**	
		2	11.0	**8.1**	
	F	3	11.0	**8.0**	
		4	11.0	**8.0**	
		5	11.0	**8.1**	
		6	11.0	**8.5**	
	Pulv	1	11.0	**9.7**	
		2	11.0	**9.3**	
	B	3	11.0	**9.1**	
		4	11.0	**9.1**	
		5	11.0	**9.3**	
		6	11.0	**9.7**	
			ave	8.4	

			Outer Air Register	**initial settings**		
Rear	Pulv	1	11.0	**9.2**		
		2	11.0	**8.8**		
	D	3	11.0	**8.6**		
		4	11.0	**8.6**		
		5	11.0	**8.8**		
		6	11.0	**9.2**		
	Pulv	1	11.0	**9.9**		
		2	11.0	**9.5**		
	H	3	11.0	**9.3**		
		4	11.0	**9.3**		
		5	11.0	**9.5**		
		6	11.0	**9.9**		
	Pulv	1	11 0	**9.6**		
		2	11.0	**9.2**		
	C	3	11.0	**9.0**		
		4	11.0	**9.0**		
		5	11.0	**9.2**		
		6	11.0	**9.6**		
	Pulv	1	11.0	**11.0**	max	
		2	11.0	**10.6**		
	G	3	11.0	**10.3**		
		4	11.0	**10.3**		
		5	11.0	**10.6**		
		6	11.0	**11.0**	max	
			ave	9.6		**9.0**

Rear

BIAS:

Front to Rear BIAS	Rear	1.00	Front	0.88				
Top to Bottom BIAS	1st- B/ G	1.00	2nd- F/ C	0.92	3rd- A/ H	0.90	4th- E/ D	0.88
Side to Side BIAS (**w/ baffles**)	Out- 1/ 6	1.00	Mid- 2/ 5	0.96	Inner- 3/ 4	0.94		
Windbow Sizing Bias (rows 1& 3	1st& 3rd	1.00	2nd & 4th	0.95				

IP7_032823

1

ABT- predicted outer air register settings for air flow balancing

4/20/04

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

	UNIT 2		Outer Air Register settings **initial**	4/30/04					Outer Air Register settings **initial**	4/30/04	
Front	Pulv	1	8.1	**6.5**		Rear	Pulv	1	9.2	**7.4**	
		2	7.8	**6.0**				2	8.8	**6.8**	
	E	3	7.6	**5.6**	min		D	3	8.6	**6.4**	
		4	7.6	**5.8**				4	8.6	**6.6**	
		5	7.8	**6.1**				5	8.8	**7.0**	
		6	8.1	**6.8**				6	9.2	**7.7**	
	Pulv	1	8.7	**7.4**			Pulv	1	9.9	**8.4**	
		2	8.4	**6.8**				2	9.5	**7.7**	
	A	3	8.2	**6.4**			H	3	9.3	**7.3**	
		4	8.2	**6.6**				4	9.3	**7.4**	
		5	8.4	**7.0**				5	9.5	**7.9**	
		6	8.7	**7.7**				6	9.9	**8.8**	
	Pulv	1	8.5	**6.7**			Pulv	1	9.6	**7.6**	
		2	8.1	**6.1**				2	9.2	**6.9**	
	F	3	8.0	**5.8**			C	3	9.0	**6.6**	
		4	8.0	**5.9**				4	9.0	**6.7**	
		5	8.1	**6.3**				5	9.2	**7.1**	
		6	8.5	**7.0**				6	9.6	**7.9**	
	Pulv	1	9.7	**8.4**			Pulv	1	11.0	**9.6**	
		2	9.3	**7.7**				2	10.6	**8.7**	
	B	3	9.1	**7.3**			G	3	10.3	**8.3**	
		4	9.1	**7.4**				4	10.3	**8.5**	
		5	9.3	**7.9**				5	10.6	**9.0**	
		6	9.7	**8.8**				6	11.0	**10.0**	max
	ave (front)		8.4	6.8				ave (rear)	9.6	7.8	
								ave (total)	9.0	**7.3**	

		initial	4/30/04
Initial Outer Register Setting Reference			
(max setting on rear- 1st, row, outer)		11.0	10.0
BIAS:			
Front to Rear BIAS	Front	0.88	0.88
push to rear wall	Rear	1.00	1.00

	outer (1/ 6)	inner (2/ 5)	center (3/4)
Inner to Outer Burner BIAS (w/	1.00	0.96	0.94
w/ baffles	1.00	0.95	0.92

	6 (west)	5	4	3	2	1 (east)
Side to Side Bias	1.00	1.00	1.00	1.00	1.00	1.00
push from east to west	1.00	0.95	0.92	0.90	0.92	0.96

Top to Bottom BIAS	4th- E/ D	0.88	0.86
push to bottom	3rd- A/ H	0.90	0.88
	2nd- F/ C	0.92	0.88
	1st- B/ G	1.00	1.00
Windbox Sizing Bias (rows 1&	2nd & 4th	0.95	0.90
	1st& 3rd	1.00	1.00

IP7_032824

#2

ABT- predicted outer air register settings for air flow balancing

4/20/04

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

	UNIT 2		Outer Air Register settings **initial**	r1 4/30/04 10:00	r2 4/30/04 12:30
Front	Pulv	1	8.1	6.5	**6.0**
		2	7.8	6.0	**5.3**
	min	3	7.6	5.6	**5.0**
	E	4	7.6	5.8	**5.1**
		5	7.8	6.1	**5.5**
		6	8.1	6.8	**6.3**
	Pulv	1	8.7	7.4	**6.9**
		2	8.4	6.8	**6.1**
	A	3	8.2	6.4	**5.7**
		4	8.2	6.6	**5.8**
		5	8.4	7.0	**6.3**
		6	8.7	7.7	**7.2**
	Pulv	1	8.5	6.7	**6.2**
		2	8.1	6.1	**5.5**
	F	3	8.0	5.8	**5.1**
		4	8.0	5.9	**5.3**
		5	8.1	6.3	**5.7**
		6	8.5	7.0	**6.5**
	Pulv	1	9.7	8.4	**8.7**
		2	9.3	7.7	**7.7**
	B	3	9.1	7.3	**7.2**
		4	9.1	7.4	**7.4**
		5	9.3	7.9	**7.9**
		6	9.7	8.8	**9.1**
	ave (front)		8.4	6.8	6.4

			Outer Air Register settings **initial**	r1 4/30/04 10:00	r2 4/30/04 12:30
Rear	Pulv	1	9.2	7.4	**7.1**
		2	8.8	6.8	**6.2**
	D	3	8.6	6.4	**5.8**
		4	8.6	6.6	**6.0**
		5	8.8	7.0	**6.5**
		6	9.2	7.7	**7.4**
	Pulv	1	9.9	8.4	**8.2**
		2	9.5	7.7	**7.2**
	H	3	9.3	7.3	**6.7**
		4	9.3	7.4	**6.9**
		5	9.5	7.9	**7.4**
		6	9.9	8.8	**8.5**
	Pulv	1	9.6	7.6	**6.2**
		2	9.2	6.9	**5.5**
	C	3	9.0	6.6	**5.1**
		4	9.0	6.7	**5.3**
		5	9.2	7.1	**5.7**
		6	9.6	7.9	**6.5**
	Pulv	1	11.0	9.6	**9.6**
		2	10.6	8.7	**8.5**
	G	3	10.3	8.3	**7.9**
		4	10.3	8.5	**8.1**
		5	10.6	9.0	**8.7**
	max	6	11.0	10.0	**10.0**
		ave (rear)	9.6	7.8	7.1
		ave (total)	9.0	7.3	**6.8**

INPUTS:

		initial	r1	r2
Initial Outer Register Setting Reference (duct p				
(max setting on rear- 1st, row, outer)		11.0	10.0	10.0
BIAS:		r0	r1	r2
Front to Rear BIAS	Front	0.88	0.88	0.85
push to rear wall	Rear	1.00	1.00	1.00

	outer (1/ 6)	inner (2/ 5)	center (3/4)	
Inner to Outer Burner BIAS (w/ w/ baffles	1.00	0.96	0.94	r0
	1.00	0.95	0.92	r1
	1 00	0.92	0.88	r2

	6 (west)	5	4	3	2	1 (east)	
Side to Side Bias	1.00	1.00	1.00	1.00	1.00	1.00	r0
push from east to west	1.00	0.95	0.92	0.90	0.92	0.96	r1
	1.00	0.95	0.92	0.90	0 92	0 96	r2

		initial	r1	r2
Top to Bottom BIAS	4th- E/ D	0.88	0.86	0.82
push to bottom	3rd- A/ H	0.90	0.88	0.85
	2nd- F/ C	0.92	0.88	0.85
	1st- B/ G	1.00	1.00	1.00
Windbox Sizing Bias (rows 1&	2nd & 4th	0.95	0.90	0.90
	1st& 3rd	1.00	1.00	1.00
Extra Bias based on Results	Pulv 2C (r-2nd)			0.85
	Pulv 2B (f-1st)			1.07

Burner Settings

Spin Vane	7	
		r2
Inner Air	3 3/4	
Backrow/ 6th burner D6, H6, C6 & G6		4 1/4

IP7_032825

#3

ABT- predicted outer air register settings for air flow balancing

r3 4/30/2004

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

UNIT 2			Outer Air Register settings **initial**	r1 4/30/04 10:00	r2 4/30/04 15:30	r3 5/3/04 9:00
Front	Pulv	1	8.1	6.5	6.0	**5.7**
		2	7.8	6.0	5.3	**5.1**
	min	3	7.6	5.6	5.0	**4.9**
	E	4	7.6	5.8	5.1	**4.9**
		5	7.8	6.1	5.5	**5.1**
		6	8.1	6.8	6.3	**5.7**
	Pulv	1	8.7	7.4	6.9	**7.0**
		2	8.4	6.8	6.1	**6.3**
	A	3	8.2	6.4	5.7	**5.9**
		4	8.2	6.6	5.8	**5.9**
		5	8.4	7.0	6.3	**6.3**
		6	8.7	7.7	7.2	**7.0**
	Pulv	1	8.5	6.7	6.2	**5.6**
		2	8.1	6.1	5.5	**5.1**
	F	3	8.0	5.8	5.1	**4.8**
		4	8.0	5.9	5.3	**4.8**
		5	8.1	6.3	5.7	**5.1**
		6	8.5	7.0	6.5	**5.6**
	Pulv	1	9.7	8.4	8.7	**8.8**
		2	9.3	7.7	7.7	**7.9**
	B	3	9.1	7.3	7.2	**7.5**
		4	9.1	7.4	7.4	**7.5**
		5	9.3	7.9	7.9	**7.9**
		6	9.7	8.8	9.1	**8.8**
	ave (front)		8.4	6.8	6.4	6.2

			Outer Air Register settings **initial**	r1 4/30/04 10:00	r2 4/30/04 15:30	r3 5/3/04 9:00
Rear	Pulv	1	9.2	7.4	7.1	**7.0**
		2	8.8	6.8	6.2	**6.3**
	D	3	8.6	6.4	5.8	**5.9**
		4	8.6	6.6	6.0	**5.9**
		5	8.8	7.0	6.5	**6.3**
		6	9.2	7.7	7.4	**7.0**
	Pulv	1	9.9	8.4	8.2	**8.5**
		2	9.5	7.7	7.2	**7.7**
	H	3	9.3	7.3	6.7	**7.2**
		4	9.3	7.4	6.9	**7.2**
		5	9.5	7.9	7.4	**7.7**
		6	9.9	8.8	8.5	**8.5**
	Pulv	1	9.6	7.6	6.2	**5.8**
		2	9.2	6.9	5.5	**5.2**
	C	3	9.0	6.6	5.1	**4.9**
		4	9.0	6.7	5.3	**4.9**
		5	9.2	7.1	5.7	**5.2**
		6	9.6	7.9	6.5	**5.8**
	Pulv	1	11.0	9.6	9.6	**10.5**
		2	10.6	8.7	8.5	**9.5**
	G	3	10.3	8.3	7.9	**8.9**
		4	10.3	8.5	8.1	**8.9**
		5	10.6	9.0	8.7	**9.5**
	max	6	11.0	10.0	10.0	**10.5**
		ave (rear)	9.6	7.8	7.1	7.3
		ave (total)	9.0	7.3	6.8	**6.7**

INPUTS:

Initial Outer Register Setting Refe		initial	r1	r2	r3
(max setting on rear- 1st, row, ou		11.0	10.0	10.0	**10.0**
BIAS:		r0	r1	r2	r3
Front to Rear BIAS	Front	0.88	0.88	0.85	**0.82**
push to rear wall	Rear	1.00	1.00	1.00	1.00

	outer (1/ 6)	inner (2/ 5)	center (3/4)	
Inner to Outer Burn	1.00	0.96	0.94	r0
w/ baffles	1.00	0.95	0.92	r1
	1.00	0.92	0.88	r2
	1.00	**0.90**	**0.85**	r3

	6 (west)	5	4	3	2	1 (east)	
Side to Side Bias	1.00	1.00	1.00	1.00	1.00	1.00	r0
push from east to we	1.00	0.95	0.92	0.90	0.92	0.96	r1
	1.00	0.95	0.92	0.90	0.92	0.96	r2
	1.00	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	r3

		initial	r1	r2	r3
Top to Bottom BIAS	4th- E/ D	0.88	0.86	0.82	0.82
push to bottom	3rd- A/ H	0.90	0.88	0.85	0.85
	2nd- F/ C	0.92	0.88	0.85	0.85
	1st- B/ G	1.00	1.00	1.00	1.00
Windbox Sizing Bia	2nd & 4th	0.95	0.90	0.90	**0.85**
	1st& 3rd	1.00	1.00	1.00	1.00
Extra Bias based o	Pulv 2C (r-2nd)			0.85	**0.80**
	Pulv 2F (f-2nd)				**0.95**
	Pulv 2B (f-1st)			1.07	1.07
	Pulv 2G (r-1st)				**1.05**

Burner Settings:

Spin Vane	1.5" 8 notches sho 3 open (1.5
	r2
Inner Air	3 3/4
Backwall/ 6th burner	3 1/4
D6, H6, C6 & G6	

r0
r1
r2- bias east to west
r3- take out east to west bias, pinch more
r4

IP7_032826

ABT- predicted outer air register settings for air flow balancing

r4 5/03/2004

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

#4

UNIT 2			Outer Air Register settings **initial**	r1 4/30/04 10:00	r2 4/30/04 15:30	r3 5/3/04 9:00
Front	Pulv	1	8.1	6.5	6.0	**5.1**
		2	7.8	6.0	5.3	**4.6**
	min	3	7.6	5.6	5.0	**4.4**
	E	4	7.6	5.8	5.1	**4.4**
		5	7.8	6.1	5.5	**4.6**
		6	8.1	6.8	6.3	**5.1**
	Pulv	1	8.7	7.4	6.9	**6.3**
		2	8.4	6.8	6.1	**5.6**
	A	3	8.2	6.4	5.7	**5.3**
		4	8.2	6.6	5.8	**5.3**
		5	8.4	7.0	6.3	**5.6**
		6	8.7	7.7	7.2	**6.3**
	Pulv	1	8.5	6.7	6.2	**5.1**
		2	8.1	6.1	5.5	**4.6**
	F	3	8.0	5.8	5.1	**4.3**
		4	8.0	5.9	5.3	**4.3**
		5	8.1	6.3	5.7	**4.6**
		6	8.5	7.0	6.5	**5.1**
	Pulv	1	9.7	8.4	8.7	**7.9**
		2	9.3	7.7	7.7	**7.1**
	B	3	9.1	7.3	7.2	**6.7**
		4	9.1	7.4	7.4	**6.7**
		5	9.3	7.9	7.9	**7.1**
		6	9.7	8.8	9.1	**7.9**
	ave (front)		8.4	6.8	6.4	5.6

#4

			Outer Air Register settings **initial**	r1 4/30/04 10:00	r2 4/30/04 15:30	r3 5/3/04 9:00
Rear	Pulv	1	9.2	7.4	7.1	**6.3**
		2	8.8	6.8	6.2	**5.6**
	D	3	8.6	6.4	5.8	**5.3**
		4	8.6	6.6	6.0	**5.3**
		5	8.8	7.0	6.5	**5.6**
		6	9.2	7.7	7.4	**6.3**
	Pulv	1	9.9	8.4	8.2	**7.7**
		2	9.5	7.7	7.2	**6.9**
	H	3	9.3	7.3	6.7	**6.5**
		4	9.3	7.4	6.9	**6.5**
		5	9.5	7.9	7.4	**6.9**
		6	9.9	8.8	8.5	**7.7**
	Pulv	1	9.6	7.6	6.2	**5.2**
		2	9.2	6.9	5.5	**4.7**
	C	3	9.0	6.6	5.1	**4.4**
		4	9.0	6.7	5.3	**4.4**
		5	9.2	7.1	5.7	**4.7**
		6	9.6	7.9	6.5	**5.2**
	Pulv	1	11.0	9.6	9.6	**9.5**
		2	10.6	8.7	8.5	**8.5**
	G	3	10.3	8.3	7.9	**8.0**
		4	10.3	8.5	8.1	**8.0**
		5	10.6	9.0	8.7	**8.5**
	max	6	11.0	10.0	10.0	**9.5**
		ave (rear)	9.6	7.8	7.1	6.5
		ave (total)	9.0	7.3	6.8	**6.1**

INPUTS:

		initial	r1	r2	r3	r4
...itial Outer Register Setting Ref...						
(max setting on rear- 1st, row, ou		11.0	10.0	10.0	10.0	**9.0**
BIAS:		r0	r1	r2	r3	r4
Front to Rear BIAS	Front	0.88	0.88	0.85	0.82	**0.82**
push to rear wall	Rear	1.00	1.00	1.00	1.00	1.00

	outer (1/ 6)	inner (2/ 5)	center (3/4)	
Inner to Outer Burn	1.00	0.96	0.94	r0
w/ baffles	1.00	0.95	0.92	r1
	1.00	0.92	0.88	r2
	1.00	0.90	0.85	r3
	1.00	0.90	0.85	r4

	6 (west)	5	4	3	2	1 (east)	
Side to Side Bias	1.00	1.00	1.00	1.00	1.00	1.00	r0
push from east to we	1.00	0.95	0.92	0.90	0.92	0.96	r1
	1.00	0.95	0.92	0.90	0.92	0.96	r2
	1.00	1.00	1.00	1.00	1.00	1.00	r3
	1.00	1.00	1.00	1.00	1.00	1.00	r4

		initial	r1	r2	r3	r4
Top to Bottom BIA	4th- E/ D	0.88	0.86	0.82	0.82	0.82
push to bottom	3rd- A/ H	0.90	0.88	0.85	0.85	0.85
	2nd- F/ C	0.92	0.88	0.85	0.85	0.85
	1st- B/ G	1.00	1.00	1.00	1.00	1.00
Windbox Sizing Bia	2nd & 4th	0.95	0.90	0.90	0.85	0.85
	1st& 3rd	1.00	1.00	1.00	1.00	1.00
Extra Bias based o	Pulv 2C (r-2nd)			0.85	0.80	0.80
	Pulv 2F (f-2nd)				0.95	0.95
	Pulv 2B (f-1st)			1.07	1.07	1.07
	Pulv 2G (r-1st)				1.05	1.05

Burner Settings:

Spin Vane	1.5" 8 notches sho 3 open (1.5
	r2
Inner Air	3 3/4
Backwall/ 6th burner	3 1/4
D6, H6, C6 & G6	

Changes:

r0
r1
r2- bias east to west
r3- take out east to west bias, pinch more
r4- throttling back

IP7_032827

ABT- predicted outer air register settings for air flow balancing

r4 5/03/2004

#5

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

	UNIT 2		Outer Air Register settings **initial**	r1 4/30/04 10:00	r2 4/30/04 15:30	r3 5/3/04 9:00
Front	Pulv	1	8.1	6.5	6.0	**4.6**
		2	7.8	6.0	5.3	**4.1**
	min	3	7.6	5.6	5.0	**3.9**
	E	4	7.6	5.8	5.1	**3.9**
		5	7.8	6.1	5.5	**4.1**
		6	8.1	6.8	6.3	**4.6**
	Pulv	1	8.7	7.4	6.9	**5.6**
		2	8.4	6.8	6.1	**5.0**
	A	3	8.2	6.4	5.7	**4.7**
		4	8.2	6.6	5.8	**4.7**
		5	8.4	7.0	6.3	**5.0**
		6	8.7	7.7	7.2	**5.6**
	Pulv	1	8.5	6.7	6.2	**4.5**
		2	8.1	6.1	5.5	**4.1**
	F	3	8.0	5.8	5.1	**3.8**
		4	8.0	5.9	5.3	**3.8**
		5	8.1	6.3	5.7	**4.1**
		6	8.5	7.0	6.5	**4.5**
	Pulv	1	9.7	8.4	8.7	**7.0**
		2	9.3	7.7	7.7	**6.3**
	B	3	9.1	7.3	7.2	**6.0**
		4	9.1	7.4	7.4	**6.0**
		5	9.3	7.9	7.9	**6.3**
		6	9.7	8.8	9.1	**7.0**
	ave (front)		8.4	6.8	6.4	5.0

			Outer Air Register settings **initial**	r1 4/30/04 10:00	r2 4/30/04 15:30	r3 5/3/04 9:00
Rear	Pulv	1	9.2	7.4	7.1	**5.6**
		2	8.8	6.8	6.2	**5.0**
	D	3	8.6	6.4	5.8	**4.7**
		4	8.6	6.6	6.0	**4.7**
		5	8.8	7.0	6.5	**5.0**
		6	9.2	7.7	7.4	**5.6**
	Pulv	1	9.9	8.4	8.2	**6.8**
		2	9.5	7.7	7.2	**6.1**
	H	3	9.3	7.3	6.7	**5.8**
		4	9.3	7.4	6.9	**5.8**
		5	9.5	7.9	7.4	**6.1**
		6	9.9	8.8	8.5	**6.8**
	Pulv	1	9.6	7.6	6.2	**4.6**
		2	9.2	6.9	5.5	**4.2**
	C	3	9.0	6.6	5.1	**3.9**
		4	9.0	6.7	5.3	**3.9**
		5	9.2	7.1	5.7	**4.2**
		6	9.6	7.9	6.5	**4.6**
	Pulv	1	11.0	9.6	9.6	**8.4**
		2	10.6	8.7	8.5	**7.6**
	G	3	10.3	8.3	7.9	**7.1**
		4	10.3	8.5	8.1	**7.1**
		5	10.6	9.0	8.7	**7.6**
	max	6	11.0	10.0	10.0	**8.4**
		ave (rear)	9.6	7.8	7.1	5.8
		ave (total)	9.0	7.3	6.8	**5.4**

INPUTS:

		initial	r1	r2	r3	r4
ıitial Outer Regıster Setting Refe						
(max setting on rear- 1st, row, ou		11.0	10.0	10.0	10.0	**8.0**
BIAS:		r0	r1	r2	r3	r4
Front to Rear BIAS	Front	0.88	0.88	0.85	0.82	**0.82**
push to rear wall	Rear	1.00	1.00	1.00	1.00	1.00

	outer (1/ 6)	ınner (2/ 5)	center (3/4)	
Inner to Outer Burn	1.00	0.96	0.94	r0
w/ baffles	1.00	0.95	0.92	r1
	1.00	0.92	0.88	r2
	1.00	0.90	0.85	r3
	1.00	0.90	0.85	r4

	6 (west)	5	4	3	2	1 (east)	
Side to Side Bias	1.00	1.00	1.00	1.00	1.00	1.00	r0
push from east to we	1.00	0.95	0.92	0.90	0.92	0.96	r1
	1.00	0.95	0.92	0.90	0.92	0.96	r2
	1.00	1.00	1.00	1.00	1.00	1.00	r3
	1.00	1.00	1.00	1.00	1.00	1.00	r4

		initial	r1	r2	r3	r4
Top to Bottom BIA	4th- E/ D	0.88	0.86	0.82	0.82	0.82
push to bottom	3rd- A/ H	0.90	0.88	0.85	0.85	0.85
	2nd- F/ C	0.92	0.88	0.85	0.85	0.85
	1st- B/ G	1.00	1.00	1.00	1.00	1.00
Windbox Sizing Bia	2nd & 4th	0.95	0.90	0.90	0.85	0.85
	1st& 3rd	1.00	1.00	1.00	1.00	1.00
Extra Bias based o	Pulv 2C (r-2nd)			0.85	0.80	0.80
	Pulv 2F (f-2nd)				0.95	0.95
	Pulv 2B (f-1st)			1.07	1.07	1.07
	Pulv 2G (r-1st)				1.05	1.05

Burner Settings:

Spin Vane	1.5" 8 notches sho 3 open (1.5
	r2
Inner Air	3 3/4
Backwall/ 6th burner	3 1/4
D6, H6, C6 & G6	

Changes:

r0
r1
r2- bias east to west
r3- take out east to west bias, pinch more
r4- throttling back

IP7_032828

Test # 1

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
10:10:02	15.66	2.84	219.92	13.83	4.45	101.77
10:10:22	15.70	2.79	272.31	13.76	4.55	95.21
10:10:42	15.72	2.78	276.18	13.72	4.59	95.21
10:11:02	15.67	2.84	243.32	13.64	4.68	89.21
10:11:22	15.62	2.89	210.94	13.65	4.68	109.07
10:11:42	15.64	2.90	194.87	13.78	4.48	206.74
10:12:02	15.61	2.95	196.45	13.83	4.42	210.65
10:12:22	15.55	3.02	184.06	13.87	4.40	154.05
10:12:42	15.48	3.07	171.92	13.94	4.31	151.85
10:13:02	15.48	3.06	163.23	13.97	4.28	153.75
10:13:22	15.55	2.96	219.35	13.94	4.33	142.60
10:13:42	15.56	2.95	222.14	14.04	4.21	146.35
10:14:02	15.52	3.01	191.22	13.99	4.29	132.35
10:14:22	15.53	2.99	179.32	13.82	4.52	110.95
10:14:42	15.59	2.93	201.69	13.69	4.67	131.34
10:15:02	15.62	2.89	220.75	13.55	4.85	119.99
10:15:22	15.65	2.87	234.90	13.42	5.00	118.84
10:15:42	15.64	2.86	230.32	13.39	5.01	116.61
10:16:02	15.66	2.82	203.02	13.44	4.93	115.71
10:16:22	15.71	2.80	178.20	13.49	4.88	113.08
10:16:42	15.71	2.82	165.77	13.50	4.84	95.61
10:17:02	15.68	2.84	149.56	13.46	4.87	83.07
10:17:22	15.66	2.84	152.32	13.42	4.94	79.48
10:17:42	15.64	2.88	141.91	13.32	5.11	67.14
10:18:02	15.58	2.94	131.36	13.31	5.10	59.75
10:18:22	15.58	2.91	164.29	13.39	5.03	56.19
10:18:42	15.58	2.94	172.58	13.41	4.99	55.33
10:19:02	15.57	2.95	174.45	13.46	4.92	51.08
10:19:22	15.57	2.96	177.92	13.55	4.76	74.47
10:19:42	15.57	2.98	173.91	13.58	4.76	70.67
10:20:02	15.57	2.96	173.84	13.58	4.77	61.71
10:20:22	15.56	2.93	202.42	13.55	4.79	77.46
10:20:42	15.57	2.90	194.55	13.56	4.77	73.52
10:21:02	15.62	2.87	169.61	13.51	4.89	62.27
10:21:22	15.65	2.84	155.01	13.43	4.95	64.13
10:21:42	15.65	2.83	155.71	13.38	5.00	69.07
10:22:02	15.56	2.95	140.93	13.51	4.80	84.21
10:22:22	15.47	3.10	109.73	13.70	4.57	87.13
10:22:42	15.41	3.17	96.36	13.77	4.49	87.12
10:23:02	15.42	3.15	88.84	13.79	4.49	85.78
10:23:22	15.50	3.07	93.97	13.76	4.51	89.46
10:23:42	15.54	3.01	110.81	13.77	4.52	108.33
10:24:02	15.53	3.01	132.54	13.72	4.59	103.95
10:24:22	15.47	3.09	136.07	13.71	4.57	74.79
10:24:42	15.37	3.24	113.86	13.79	4.49	69.60
10:25:02	15.23	3.41	96.66	13.88	4.37	84.26
10:25:22	15.09	3.53	77.10	13.89	4.40	119.75
10:25:42	15.03	3.57	66.34	13.90	4.38	115.38
10:26:02	15.04	3.58	60.35	13.92	4.33	104.81
10:26:22	15.07	3.54	60.35	13.84	4.43	83.14
10:26:42	15.27	3.32	98.45	13.77	4.51	69.34
10:27:02	15.45	3.07	162.15	13.76	4.55	63.68
10:27:22	15.59	2.87	224.54	13.76	4.54	67.07
10:27:42	15.72	2.70	410.58	13.77	4.55	53.75

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
10:28:02	15.80	2.62	483.72	13.77	4.54	48.49
10:28:22	15.82	2.57	472.49	13.73	4.62	38.15
10:28:42	15.87	2.53	474.57	13.63	4.75	35.14
10:29:02	15.88	2.51	456.09	13.44	5.00	34.38
10:29:22	15.81	2.62	382.63	13.29	5.18	30.02
10:29:42	15.65	2.86	279.97	12.95	5.59	20.97
10:30:02	15.47	3.11	191.08	12.78	5.79	13.72
10:30:22	15.32	3.27	142.05	12.78	5.78	9.49
10:30:42	15.24	3.37	113.35	12.87	5.66	8.93
10:31:02	15.26	3.29	158.53	13.04	5.45	12.41
10:31:22	15.43	3.04	380.84	13.22	5.25	16.50
10:31:42	15.59	2.82	616.07	13.28	5.17	21.26
10:32:02	15.66	2.73	607.99	13.20	5.26	20.84
10:32:22	15.69	2.74	506.32	13.14	5.33	18.09
10:32:42	15.65	2.80	383.36	13.10	5.40	16.38
10:33:02	15.61	2.88	288.20	13.10	5.38	15.63
10:33:22	15.56	2.93	234.45	13.11	5.36	12.51
10:33:42	15.54	2.97	198.73	13.09	5.40	11.25
10:34:02	15.50	3.04	154.30	13.04	5.44	10.25
10:34:22	15.46	3.09	126.83	12.98	5.52	9.77
10:34:42	15.45	3.11	104.29	12.91	5.60	10.74
10:35:02	15.42	3.15	90.76	12.89	5.63	10.07
10:35:22	15.45	3.12	91.01	12.87	5.61	9.23
10:35:42	15.51	3.03	124.05	12.94	5.54	9.13
10:36:02	15.56	2.97	140.75	12.95	5.53	8.41
10:36:22	15.59	2.97	125.01	12.96	5.53	8.04
10:36:42	15.55	3.03	100.80	12.95	5.55	7.80
10:37:02	15.46	3.10	76.01	12.96	5.54	7.62
10:37:22	15.38	3.17	58.72	12.89	5.61	7.27
10:37:42	15.37	3.18	57.60	12.79	5.74	8.54
10:38:02	15.37	3.20	49.39	12.71	5.85	8.87
10:38:22	15.37	3.23	42.02	12.67	5.86	7.63
10:38:42	15.40	3.20	37.95	12.76	5.77	6.92
10:39:02	15.44	3.14	47.75	12.84	5.66	7.38
10:39:22	15.55	3.04	70.83	12.95	5.53	7.97
10:39:42	15.64	2.99	82.72	13.04	5.44	8.38
10:40:02	15.65	2.97	81.87	13.08	5.39	8.72
10:40:22	15.73	2.90	83.38	13.16	5.28	13.27
10:40:42	15.78	2.84	119.43	13.25	5.18	17.90
10:41:02	15.78	2.79	156.89	13.32	5.09	19.57
10:41:22	15.79	2.74	191.82	13.38	5.04	21.10
10:41:42	15.75	2.74	187.18	13.41	4.99	21.23
10:42:02	15.77	2.73	182.52	13.50	4.91	24.80
10:42:22	15.82	2.71	173.68	13.47	4.95	23.23
10:42:42	15.80	2.72	153.48	13.38	5.04	24.63
10:43:02	15.82	2.72	136.25	13.34	5.09	29.38
10:43:22	15.85	2.69	130.50	13.35	5.07	28.26
10:43:42	15.91	2.62	142.25	13.41	5.01	25.47
10:44:02	15.91	2.60	175.20	13.42	5.01	20.91
10:44:22	15.93	2.57	198.55	13.38	5.06	18.19
10:44:42	15.93	2.60	189.48	13.30	5.17	18.76
10:45:02	15.87	2.67	158.08	13.20	5.26	21.19
10:45:22	15.85	2.69	131.64	13.25	5.19	21.53
10:45:42	15.87	2.67	142.29	13.29	5.15	17.58

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
10:46:02	15.92	2.64	151.52	13.27	5.18	14.28
10:46:22	15.91	2.64	148.01	13.27	5.17	12.00
10:46:42	15.90	2.69	124.26	13.26	5.18	11.23
10:47:02	15.90	2.70	115.71	13.30	5.13	11.05
10:47:22	15.88	2.74	107.23	13.33	5.11	13.15
10:47:42	15.82	2.79	90.55	13.28	5.17	17.32
10:48:02	15.77	2.83	85.76	13.26	5.19	21.92
10:48:22	15.76	2.85	88.64	13.29	5.14	28.82
10:48:42	15.78	2.83	88.33	13.31	5.12	25.23
10:49:02	15.78	2.82	102.02	13.31	5.14	18.02
10:49:22	15.78	2.84	99.11	13.27	5.16	15.19
10:49:42	15.77	2.84	85.10	13.25	5.22	14.59
10:50:02	15.73	2.86	71.90	13.22	5.25	14.68
10:50:22	15.74	2.85	73.98	13.22	5.25	14.86
10:50:42	15.70	2.88	67.50	13.19	5.27	14.51
10:51:02	15.62	2.97	53.91	13.20	5.27	17.94
10:51:22	15.57	3.05	47.52	13.19	5.28	20.41
10:51:42	15.56	3.06	46.56	13.18	5.29	21.30
10:52:02	15.55	3.07	41.72	13.24	5.20	22.00
10:52:22	15.54	3.06	48.03	13.29	5.14	21.77
10:52:42	15.56	3.02	59.72	13.30	5.13	22.28
10:53:02	15.65	2.96	80.75	13.34	5.08	23.53
10:53:22	15.70	2.92	81.84	13.36	5.05	23.64
10:53:42	15.72	2.88	81.14	13.41	5.00	24.10
10:54:02	15.78	2.82	84.22	13.43	4.97	26.69
10:54:22	15.80	2.81	87.52	13.42	5.00	26.52
10:54:42	15.76	2.81	88.87	13.34	5.08	33.40
10:55:02	15.79	2.77	90.49	13.26	5.17	35.48
10:55:22	15.80	2.77	98.05	13.24	5.20	31.18
10:55:42	15.81	2.76	121.57	13.24	5.20	26.87
10:56:02	15.80	2.77	114.22	13.29	5.14	25.31
10:56:22	15.80	2.76	109.64	13.29	5.15	27.48
10:56:42	15.82	2.75	105.00	13.25	5.19	26.60
10:57:02	15.83	2.75	104.76	13.23	5.24	24.60
10:57:22	15.76	2.79	94.27	13.26	5.19	26.05
10:57:42	15.77	2.81	82.94	13.29	5.13	23.88
10:58:02	15.75	2.82	74.18	13.30	5.15	22.10
10:58:22	15.74	2.83	78.62	13.25	5.21	24.19
10:58:42	15.77	2.81	87.12	13.31	5.12	27.27
10:59:02	15.80	2.78	90.44	13.36	5.06	28.36
10:59:22	15.83	2.72	100.98	13.36	5.04	30.02
10:59:42	15.88	2.69	112.09	13.37	5.04	26.75
11:00:02	15.88	2.72	105.84	13.34	5.07	21.57
11:00:22	15.82	2.78	99.77	13.36	5.07	18.42
11:00:42	15.81	2.80	102.04	13.39	5.03	17.32
11:01:02	15.81	2.79	89.16	13.39	5.02	16.84
11:01:22	15.79	2.80	74.71	13.37	5.05	16.37
11:01:42	15.75	2.83	62.81	13.35	5.07	16.03
11:02:02	15.78	2.78	67.77	13.34	5.09	16.93
11:02:22	15.86	2.74	83.42	13.37	5.05	16.76
11:02:42	15.88	2.67	90.69	13.44	4.97	15.33
11:03:02	15.90	2.63	92.77	13.46	4.92	14.11
11:03:22	15.93	2.61	94.21	13.44	4.95	14.31
11:03:42	15.93	2.63	85.89	13.43	4.98	16.23

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:04:02	15.91	2.64	83.45	13.41	5.01	18.90
11:04:22	15.93	2.64	88.56	13.44	4.95	19.87
11:04:42	15.93	2.63	110.35	13.49	4.89	22.72
11:05:02	15.95	2.62	114.07	13.54	4.81	26.64
11:05:22	15.95	2.61	105.64	13.63	4.74	22.83
11:05:42	15.99	2.59	102.68	13.59	4.80	19.16
11:06:02	15.96	2.62	90.51	13.49	4.91	19.34
11:06:22	15.93	2.64	82.53	13.45	4.95	20.71
11:06:42	15.93	2.62	90.42	13.44	4.96	17.74
11:07:02	15.98	2.56	129.06	13.44	4.96	14.96
11:07:22	16.01	2.52	139.02	13.46	4.93	14.97
11:07:42	16.02	2.55	128.14	13.42	4.97	14.25
11:08:02	15.97	2.57	121.00	13.44	4.96	15.42
11:08:22	15.99	2.58	125.01	13.46	4.91	15.84
11:08:42	15.96	2.61	111.29	13.47	4.90	17.78
11:09:02	15.96	2.62	110.29	13.49	4.90	21.92
11:09:22	15.96	2.61	104.22	13.46	4.95	23.36
11:09:42	15.97	2.60	104.20	13.38	5.03	20.17
11:10:02	15.96	2.64	91.83	13.39	5.02	18.30
11:10:22	15.98	2.63	98.01	13.43	4.94	16.19
11:10:42	15.99	2.60	107.52	13.47	4.89	16.29
11:11:02	16.03	2.55	108.80	13.48	4.90	18.52
11:11:22	16.05	2.51	110.44	13.46	4.92	18.74
11:11:42	16.07	2.51	104.74	13.49	4.89	16.89
11:12:02	16.05	2.56	85.81	13.52	4.87	15.67
11:12:22	15.98	2.61	73.49	13.51	4.85	15.66
11:12:42	15.90	2.66	64.84	13.55	4.80	15.48
11:13:02	15.88	2.68	58.56	13.60	4.75	14.67
11:13:22	15.90	2.65	60.95	13.61	4.75	13.15
11:13:42	15.97	2.61	91.37	13.56	4.79	16.39
11:14:02	15.95	2.65	98.30	13.50	4.88	23.66
11:14:22	15.91	2.67	96.52	13.51	4.86	30.71
11:14:42	15.95	2.62	125.63	13.56	4.80	30.60
11:15:02	16.01	2.52	179.51	13.58	4.76	31.99
11:15:22	16.06	2.42	216.21	13.58	4.77	32.84
11:15:42	16.06	2.39	253.57	13.55	4.80	31.04
11:16:02	16.08	2.38	260.11	13.61	4.71	35.89
11:16:22	16.08	2.38	227.83	13.68	4.65	35.40
11:16:42	16.10	2.37	220.78	13.63	4.70	31.61
11:17:02	16.07	2.42	201.82	13.62	4.75	29.27
11:17:22	16.00	2.51	174.72	13.55	4.81	27.19
11:17:42	15.97	2.53	167.16	13.53	4.84	23.81
11:18:02	15.98	2.52	163.11	13.49	4.89	23.80
11:18:22	16.00	2.52	146.36	13.51	4.85	22.08
11:18:42	16.04	2.46	150.57	13.56	4.82	20.44
11:19:02	16.08	2.41	187.14	13.55	4.83	22.12
11:19:22	16.12	2.37	209.18	13.53	4.83	25.27
11:19:42	16.10	2.40	198.05	13.49	4.88	30.43
11:20:02	16.06	2.43	197.35	13.43	4.95	31.68
11:20:22	16.04	2.44	205.48	13.44	4.93	34.97
11:20:42	16.05	2.41	241.95	13.43	4.95	35.01
11:21:02	16.06	2.41	269.30	13.35	5.05	33.09
11:21:22	16.06	2.43	270.07	13.37	5.02	31.85
11:21:42	16.03	2.46	236.80	13.44	4.92	26.99

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:22:02	15.99	2.50	187.50	13.49	4.87	22.73
11:22:22	15.99	2.50	167.27	13.47	4.88	31.96
11:22:42	16.12	2.49	162.18	13.48	4.87	33.85
11:23:02	16.11	2.51	142.15	13.50	4.86	31.31
11:23:22	16.11	2.52	128.36	13.46	4.91	25.18
11:23:42	16.12	2.52	134.81	13.45	4.93	22.37
11:24:02	16.11	2.54	127.56	13.46	4.91	23.27
11:24:22	16.06	2.61	121.49	13.38	5.03	29.73
11:24:42	16.01	2.66	119.11	13.34	5.06	41.99
11:25:02	15.98	2.71	113.66	13.39	4.95	46.04
11:25:22	15.95	2.74	98.85	13.45	4.90	40.27
11:25:42	15.99	2.68	124.24	13.45	4.89	33.91
11:26:02	15.99	2.64	162.74	13.46	4.89	27.85
11:26:22	16.00	2.63	185.76	13.44	4.92	25.89
11:26:42	16.03	2.59	188.04	13.46	4.92	26.95
11:27:02	16.04	2.56	167.59	13.44	4.93	24.92
11:27:22	16.04	2.55	159.00	13.46	4.92	22.34
11:27:42	16.07	2.52	168.27	13.51	4.86	22.40
11:28:02	16.07	2.53	168.38	13.51	4.84	24.22
11:28:22	16.06	2.52	199.87	13.52	4.81	23.49
11:28:42	16.07	2.51	225.41	13.52	4.82	27.81
11:29:02	16.11	2.45	253.29	13.52	4.84	27.45
11:29:22	16.16	2.43	241.53	13.53	4.82	23.35
11:29:42	16.18	2.40	223.63	13.55	4.80	24.42
11:30:02	16.18	2.42	208.08	13.56	4.77	29.57
11:30:22	16.18	2.43	184.30	13.59	4.75	28.04
11:30:42	16.20	2.40	191.91	13.56	4.77	30.21
11:31:02	16.18	2.42	189.42	13.52	4.83	35.14
11:31:22	16.13	2.47	176.37	13.46	4.89	29.05
11:31:42	16.12	2.49	158.99	13.43	4.95	24.13
11:32:02	16.12	2.50	170.91	13.43	4.94	31.12
11:32:22	16.09	2.57	156.31	13.47	4.89	34.21
11:32:42	16.06	2.60	139.05	13.45	4.90	31.82
11:33:02	16.05	2.62	125.02	13.48	4.87	28.97
11:33:22	16.02	2.62	128.41	13.49	4.86	28.03
11:33:42	16.03	2.58	144.37	13.47	4.90	26.64
11:34:02	16.06	2.58	137.78	13.49	4.87	32.58
11:34:22	16.04	2.60	134.36	13.52	4.82	31.63
11:34:42	16.05	2.61	139.49	13.53	4.81	24.67
11:35:02	16.04	2.60	132.21	13.55	4.82	24.38
11:35:22	16.08	2.59	123.12	13.47	4.89	32.11
11:35:42	16.08	2.60	113.61	13.46	4.89	37.97
11:36:02	16.06	2.60	134.24	13.49	4.86	34.08
11:36:22	16.07	2.58	166.13	13.52	4.83	41.22
11:36:42	16.05	2.58	166.83	13.51	4.82	47.63
11:37:02	16.05	2.57	164.95	13.48	4.87	43.33
11:37:22	16.09	2.55	162.25	13.44	4.90	36.38
11:37:42	16.09	2.59	137.83	13.50	4.84	34.47
11:38:02	16.07	2.63	108.86	13.51	4.82	32.09
11:38:22	16.08	2.61	116.68	13.48	4.87	27.32
11:38:42	16.10	2.54	147.37	13.51	4.84	31.95
11:39:02	16.14	2.45	195.41	13.49	4.86	35.74
11:39:22	16.16	2.46	208.45	13.40	4.97	32.03
11:39:42	16.08	2.54	194.91	13.36	5.02	31.33

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:40:02	16.05	2.58	182.30	13.33	5.03	42.96
11:40:22	16.01	2.62	168.45	13.33	5.05	43.94
11:40:42	15.97	2.65	169.02	13.35	5.02	37.89
11:41:02	16.01	2.61	188.36	13.41	4.98	32.52
11:41:22	16.04	2.58	198.36	13.39	5.00	27.27
11:41:42	16.04	2.56	209.04	13.34	5.04	28.21
11:42:02	16.04	2.55	233.06	13.40	4.98	32.62
11:42:22	16.08	2.50	233.39	13.42	4.94	41.77
11:42:42	16.15	2.45	263.92	13.45	4.91	39.54
11:43:02	16.16	2.43	285.95	13.50	4.85	32.51
11:43:22	16.15	2.45	251.53	13.47	4.89	32.36
11:43:42	16.10	2.50	223.68	13.45	4.91	33.83
11:44:02	16.07	2.56	194.77	13.45	4.91	32.00
11:44:22	16.04	2.60	177.77	13.40	4.97	30.45
11:44:42	16.03	2.63	149.29	13.42	4.96	34.17
11:45:02	16.03	2.60	154.40	13.45	4.92	33.71
11:45:22	16.07	2.56	186.12	13.47	4.89	27.36
11:45:42	16.07	2.53	206.18	13.43	4.96	26.09
11:46:02	16.08	2.53	212.52	13.38	5.00	33.88
11:46:22	16.07	2.57	186.41	13.38	5.01	41.56
11:46:42	16.05	2.59	160.41	13.41	4.93	49.63
11:47:02	16.04	2.59	168.33	13.43	4.92	48.55
11:47:22	16.02	2.60	174.57	13.46	4.86	52.42
11:47:42	16.01	2.63	164.12	13.46	4.87	49.26
11:48:02	16.01	2.63	159.80	13.39	4.97	43.41
11:48:22	16.04	2.60	180.07	13.36	4.99	46.08
11:48:42	16.09	2.53	217.77	13.38	4.99	43.73
11:49:02	16.12	2.50	236.67	13.38	4.96	54.25
11:49:22	16.09	2.53	232.30	13.39	4.95	55.73
11:49:42	16.10	2.51	252.64	13.45	4.90	48.89
11:50:02	16.13	2.47	268.53	13.47	4.86	47.43
11:50:22	16.20	2.39	283.83	13.48	4.87	41.44
11:50:42	16.22	2.37	287.58	13.46	4.90	35.23
11:51:02	16.20	2.40	255.69	13.44	4.94	31.97
11:51:22	16.18	2.40	247.90	13.47	4.89	32.06
11:51:42	16.16	2.41	246.51	13.50	4.83	33.31
11:52:02	16.15	2.46	220.63	13.52	4.83	29.26
11:52:22	16.11	2.49	182.41	13.48	4.86	24.70
11:52:42	16.08	2.53	168.25	13.45	4.93	24.36
11:53:02	16.05	2.58	155.10	13.40	4.97	28.07
11:53:22	16.04	2.63	139.37	13.38	4.99	29.40
11:53:42	16.00	2.65	156.12	13.40	4.98	34.92
11:54:02	16.02	2.62	174.78	13.39	4.97	33.14
11:54:22	16.06	2.57	187.57	13.43	4.93	30.96
11:54:42	16.09	2.52	200.78	13.43	4.92	29.12
11:55:02	16.09	2.54	209.60	13.40	4.96	30.06
11:55:22	16.05	2.58	223.21	13.40	4.97	31.80
11:55:42	16.00	2.64	216.95	13.41	4.94	33.35
11:56:02	15.99	2.66	202.68	13.40	4.96	36.31
11:56:22	16.00	2.65	199.07	13.37	4.98	46.04
11:56:42	16.01	2.63	181.06	13.36	4.97	48.02
11:57:02	16.01	2.62	188.45	13.39	4.94	45.32
11:57:22	16.03	2.62	176.35	13.38	4.98	42.26
11:57:42	16.03	2.63	179.18	13.37	4.99	40.47

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
11:58:02	15.96	2.70	173.63	13.43	4.92	33.89	
11:58:22	15.95	2.71	172.70	13.49	4.86	30.47	
11:58:42	15.97	2.69	156.81	13.50	4.84	34.77	
11:59:02	15.98	2.67	149.88	13.47	4.85	47.20	
11:59:22	15.99	2.64	163.75	13.43	4.92	44.83	
11:59:42	16.02	2.60	177.10	13.39	4.98	38.53	
12:00:02	16.03	2.58	187.37	13.38	4.97	41.57	
12:00:22	16.01	2.60	173.77	13.40	4.94	42.85	
12:00:42	15.97	2.61	171.95	13.47	4.86	37.50	
12:01:02	15.96	2.58	215.15	13.47	4.86	38.99	
12:01:22	15.98	2.60	218.84	13.47	4.87	44.29	
12:01:42	15.96	2.64	192.87	13.46	4.84	51.69	
12:02:02	15.95	2.63	223.58	13.45	4.88	48.61	
12:02:22	15.93	2.64	229.45	13.50	4.84	48.18	
12:02:42	15.97	2.63	233.79	13.49	4.84	50.28	
12:03:02	15.93	2.65	221.64	13.49	4.84	47.02	
12:03:22	15.91	2.68	204.60	13.46	4.86	46.39	
12:03:42	15.91	2.68	208.86	13.43	4.92	36.32	
12:04:02	15.88	2.71	197.37	13.44	4.90	29.88	
12:04:22	15.86	2.74	177.68	13.43	4.92	30.10	
12:04:42	15.87	2.74	159.29	13.43	4.94	27.18	
12:05:02	15.89	2.72	157.49	13.40	4.98	23.48	
12:05:22	15.89	2.70	193.44	13.40	5.00	23.27	
12:05:42	15.91	2.70	194.83	13.41	4.98	27.42	
12:06:02	15.90	2.72	187.98	13.39	4.97	33.26	
12:06:22	15.87	2.75	163.73	13.47	4.88	38.73	
12:06:42	15.90	2.73	168.48	13.52	4.82	39.93	
12:07:02	15.91	2.72	178.10	13.47	4.85	48.66	
12:07:22	15.92	2.69	177.69	13.46	4.86	56.60	
12:07:42	15.93	2.72	158.23	13.48	4.85	48.19	
12:08:02	15.92	2.74	162.72	13.44	4.90	47.01	
12:08:22	15.86	2.81	167.94	13.45	4.89	38.92	
12:08:42	15.84	2.81	190.64	13.52	4.83	30.53	
12:09:02	15.85	2.76	200.75	13.56	4.79	32.23	
12:09:22	15.90	2.70	219.11	13.56	4.76	41.46	
12:09:42	15.91	2.68	237.51	13.52	4.81	44.62	
average	15.86	2.72	163.09	13.42	4.96	37.93	Test 1
minimum	15.03	2.37	37.95	12.67	4.21	6.92	
maximum	16.22	3.58	616.07	14.04	5.86	210.65	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:00:02	14.72	3.72	59.11	14.37	3.62	262.21	Test 2
14:00:22	14.64	3.83	56.32	14.34	3.67	310.46	
14:00:42	14.56	3.91	53.60	14.30	3.68	399.37	
14:01:02	14.54	3.97	49.37	14.27	3.70	389.34	
14:01:22	14.50	4.01	49.91	14.28	3.73	313.25	
14:01:42	14.47	4.04	50.44	14.26	3.73	265.55	
14:02:02	14.46	4.07	51.07	14.28	3.70	230.60	
14:02:22	14.42	4.13	51.72	14.35	3.62	252.18	
14:02:42	14.36	4.18	56.09	14.32	3.62	353.16	
14:03:02	14.37	4.18	59.79	14.25	3.70	338.14	
14:03:22	14.37	4.16	61.06	14.42	3.51	422.66	
14:03:42	14.41	4.10	60.51	14.50	3.41	370.45	
14:04:02	14.43	4.06	61.69	14.55	3.36	353.46	
14:04:22	14.47	3.99	63.82	14.55	3.34	393.81	
14:04:42	14.51	3.98	61.46	14.54	3.33	411.06	
14:05:02	14.51	3.98	58.60	14.56	3.30	457.75	
14:05:22	14.50	3.98	55.07	14.56	3.28	619.13	
14:05:42	14.52	3.97	52.82	14.59	3.18	987.87	
14:06:02	14.53	3.95	53.64	14.47	3.37	712.67	
14:06:22	14.54	3.94	50.98	14.46	3.41	608.24	
14:06:42	14.56	3.91	48.33	14.46	3.41	585.90	
14:07:02	14.57	3.90	47.05	14.44	3.46	491.45	
14:07:22	14.57	3.89	47.04	14.41	3.56	358.10	
14:07:42	14.58	3.88	47.21	14.37	3.57	271.27	
14:08:02	14.63	3.84	52.83	14.45	3.46	270.04	
14:08:22	14.63	3.83	56.26	14.51	3.41	285.68	
14:08:42	14.64	3.82	60.11	14.51	3.38	252.83	
14:09:02	14.67	3.79	61.34	14.58	3.34	311.66	
14:09:22	14.72	3.71	61.83	14.49	3.46	309.70	
14:09:42	14.75	3.67	64.30	14.45	3.48	214.30	
14:10:02	14.72	3.74	61.70	14.58	3.34	188.34	
14:10:22	14.63	3.85	59.04	14.57	3.38	203.97	
14:10:42	14.59	3.88	57.01	14.45	3.53	189.07	
14:11:02	14.58	3.92	54.23	14.35	3.68	144.42	
14:11:22	14.51	3.94	51.08	14.26	3.81	114.98	
14:11:42	14.56	3.91	49.14	14.25	3.77	121.93	
14:12:02	14.59	3.88	48.34	14.27	3.77	108.04	
14:12:22	14.61	3.84	47.18	14.25	3.79	94.89	
14:12:42	14.63	3.82	47.55	14.25	3.79	119.23	
14:13:02	14.67	3.79	46.89	14.24	3.81	119.06	
14:13:22	14.64	3.81	44.87	14.25	3.79	164.67	
14:13:42	14.63	3.83	43.02	14.16	3.83	219.92	
14:14:02	14.63	3.86	41.93	14.24	3.73	216.42	
14:14:22	14.59	3.92	41.11	14.36	3.62	213.87	
14:14:42	14.55	3.95	38.47	14.44	3.54	178.85	
14:15:02	14.52	3.99	37.75	14.39	3.56	205.76	
14:15:22	14.49	4.02	37.03	14.42	3.53	207.13	
14:15:42	14.49	4.05	35.94	14.39	3.59	167.25	
14:16:02	14.42	4.10	35.26	14.34	3.66	145.13	
14:16:22	14.46	4.06	34.89	14.42	3.58	151.69	
14:16:42	14.43	4.02	34.72	14.38	3.64	186.13	
14:17:02	14.44	4.05	35.05	14.37	3.58	315.85	
14:17:22	14.40	4.11	36.10	14.43	3.52	311.07	
14:17:42	14.38	4.15	36.75	14.46	3.46	337.20	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:18:02	14.32	4.15	38.02	14.46	3.50	292.48	
14:18:22	14.30	4.08	41.71	14.32	3.67	241.37	
14:18:42	14.43	3.96	44.81	14.30	3.68	259.82	
14:19:02	14.55	3.88	48.77	14.37	3.55	356.97	
14:19:22	14.60	3.85	54.91	14.40	3.54	355.32	
14:19:42	14.62	3.84	61.39	14.38	3.59	285.36	
14:20:02	14.64	3.85	67.51	14.36	3.58	253.82	
14:20:22	14.65	3.85	70.67	14.42	3.53	218.52	
14:20:42	14.67	3.83	72.21	14.45	3.54	156.08	
14:21:02	14.68	3.84	75.22	14.46	3.52	123.65	
14:21:22	14.67	3.87	77.06	14.53	3.40	237.46	
14:21:42	14.62	3.90	75.08	14.55	3.38	280.74	
14:22:02	14.59	3.94	72.02	14.44	3.51	282.84	
14:22:22	14.63	3.94	71.96	14.39	3.52	361.92	
14:22:42	14.63	3.93	71.90	14.38	3.54	392.82	
14:23:02	14.64	3.92	69.45	14.34	3.61	386.49	
14:23:22	14.61	3.94	73.74	14.35	3.60	341.89	
14:23:42	14.60	3.97	74.16	14.42	3.49	369.53	
14:24:02	14.63	3.96	78.30	14.42	3.48	321.79	
14:24:22	14.63	3.96	79.31	14.34	3.61	211.14	
14:24:42	14.61	3.97	78.23	14.36	3.67	143.56	
14:25:02	14.58	4.00	78.41	14.36	3.66	115.89	
14:25:22	14.59	4.01	76.80	14.40	3.61	117.19	
14:25:42	14.56	3.99	73.92	14.42	3.56	121.89	
14:26:02	14.59	3.98	72.71	14.41	3.56	128.20	
14:26:22	14.60	3.97	71.25	14.42	3.59	169.56	
14:26:42	14.59	3.98	65.68	14.33	3.64	230.34	
14:27:02	14.57	3.98	61.36	14.28	3.70	217.10	
14:27:22	14.57	4.01	58.62	14.30	3.66	257.76	
14:27:42	14.56	4.02	57.13	14.29	3.67	274.25	
14:28:02	14.58	4.01	53.68	14.34	3.64	278.87	
14:28:22	14.58	3.99	53.28	14.33	3.66	279.55	
14:28:42	14.57	4.02	55.28	14.33	3.59	335.38	
14:29:02	14.57	4.02	56.61	14.42	3.50	352.33	
14:29:22	14.57	3.99	55.86	14.43	3.50	268.80	
14:29:42	14.66	3.91	57.89	14.29	3.72	220.82	
average	14.56	3.95	56.26	14.39	3.57	282.99	Test 2
minimum	14.30	3.67	34.72	14.16	3.18	94.89	
maximum	14.75	4.18	79.31	14.59	3.83	987.87	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:30:02	13.52	3.39	89.40	14.23	3.76	89.88	Test 3
15:30:22	13.54	3.38	94.57	14.24	3.75	78.40	
15:30:42	13.48	3.40	88.03	14.29	3.72	60.90	
15:31:02	13.41	3.43	68.59	14.31	3.71	59.90	
15:31:22	13.38	3.44	61.41	14.37	3.63	113.30	
15:31:42	13.30	3.46	66.98	14.31	3.66	126.13	
15:32:02	13.38	3.47	61.19	14.39	3.54	134.75	
15:32:22	13.33	3.46	49.33	14.55	3.36	167.43	
15:32:42	13.32	3.44	51.99	14.57	3.33	209.38	
15:33:02	13.34	3.46	57.34	14.46	3.47	216.91	
15:33:22	13.34	3.46	55.64	14.38	3.59	147.67	
15:33:42	13.34	3.44	47.55	14.37	3.58	200.13	
15:34:02	13.28	3.45	53.11	14.42	3.55	195.63	
15:34:22	13.39	3.43	74.90	14.38	3.59	121.51	
15:34:42	13.37	3.47	74.28	14.31	3.63	88.78	
15:35:02	13.18	3.54	66.56	14.29	3.74	58.15	
15:35:22	13.17	3.57	57.61	14.28	3.71	91.44	
15:35:42	13.10	3.61	45.26	14.42	3.51	290.71	
15:36:02	13.11	3.59	65.94	14.32	3.63	225.36	
15:36:22	13.20	3.58	71.34	14.33	3.62	160.61	
15:36:42	13.08	3.57	70.26	14.40	3.54	215.64	
15:37:02	13.06	3.56	89.35	14.45	3.48	265.82	
15:37:22	12.93	3.51	83.55	14.40	3.51	207.56	
15:37:42	13.02	3.50	58.87	14.44	3.50	179.89	
15:38:02	12.96	3.61	37.52	14.53	3.38	234.58	
15:38:22	12.97	3.64	24.33	14.31	3.66	196.78	
15:38:42	12.98	3.65	17.47	14.22	3.79	196.24	
15:39:02	13.25	3.59	15.66	14.30	3.62	266.89	
15:39:22	13.31	3.56	14.59	14.42	3.50	192.56	
15:39:42	13.36	3.53	15.76	14.48	3.48	129.38	
15.40:02	13.46	3.46	19.72	14.44	3.50	132.40	
15:40:22	13.52	3.42	27.51	14.57	3.30	297.06	
15:40:42	13.62	3.39	28.18	14.66	3.15	497.62	
15:41:02	13.64	3.45	26.98	14.62	3.21	478.91	
15:41:22	13.72	3.52	27.14	14.57	3.30	332.44	
15:41:42	13.75	3.59	25.24	14.62	3.24	388.24	
15:42:02	13.62	3.61	22.19	14.57	3.33	341.09	
15:42:22	13.57	3.62	19.90	14.52	3.40	233.39	
15:42:42	13.42	3.64	17.83	14.50	3.42	237.78	
15:43:02	13.44	3.70	18.39	14.41	3.51	195.85	
15:43:22	13.27	3.72	16.84	14.41	3.54	155.22	
15:43:42	13.28	3.70	16.56	14.49	3.46	191.00	
15:44:02	13.29	3.73	16.99	14.49	3.43	258.51	
15:44:22	13.23	3.76	20.16	14.49	3.41	302.06	
15:44:42	13.19	3.80	22.74	14.50	3.41	345.24	
15:45:02	13.18	3.83	22.95	14.47	3.46	259.89	
15:45:22	13.03	3.86	23.50	14.54	3.36	253.50	
15:45:42	12.98	3.85	25.62	14.54	3.34	255.41	
15:46:02	12.95	3.83	27.62	14.55	3.33	341.18	
15:46:22	12.91	3.84	27.33	14.61	3.31	297.61	
15:46:42	12.85	3.83	28.06	14.64	3.24	341.78	
15:47:02	12.78	3.84	28.65	14.64	3.20	470.80	
15:47:22	12.71	3.85	27.71	14.59	3.21	515.40	
15:47:42	12.73	3.82	27.07	14.56	3.31	353.26	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:48:02	12.71	3.75	28.02	14.54	3.37	238.00	
15:48:22	12.75	3.74	27.40	14.68	3.17	452.55	
15:48:42	12.81	3.74	27.26	14.56	3.26	518.38	
15:49:02	12.68	3.77	26.51	14.50	3.41	371.23	
15:49:22	12.48	3.87	24.92	14.51	3.42	277.11	
15:49:42	12.48	3.94	23.12	14.55	3.34	346.28	
15:50:02	12.49	3.94	23.56	14.59	3.29	357.56	
15:50:22	12.57	3.93	26.53	14.53	3.36	302.51	
15:50:42	12.63	3.93	29.52	14.55	3.36	324.23	
15:51:02	12.62	3.91	29.78	14.68	3.19	443.92	
15:51:22	12.63	3.87	30.08	14.62	3.24	327.45	
15:51:42	12.64	3.86	32.17	14.66	3.27	309.54	
15:52:02	12.72	3.88	30.54	14.70	3.30	310.83	
15:52:22	12.75	3.90	30.81	14.67	3.37	309.57	
15:52:42	12.60	3.94	29.89	14.67	3.44	309.73	
15:53:02	12.86	4.02	31.92	14.67	3.54	309.94	
15:53:22	12.97	4.12	32.34	14.67	3.64	309.81	
15:53:42	12.97	4.24	32.68	14.67	3.74	310.63	
15:54:02	12.98	4.38	32.08	14.66	3.85	309.47	
15:54:22	12.97	4.49	32.73	14.65	3.95	309.39	
15:54:42	13.06	4.62	33.24	14.67	4.04	309.86	
15:55:02	13.06	4.75	32.96	14.66	4.15	309.36	
15:55:22	13.05	4.86	33.35	14.67	4.24	309.82	
15:55:42	12.93	4.98	32.40	14.67	4.33	309.56	
15:56:02	12.98	5.11	32.46	14.63	4.43	308.53	
15:56:22	12.74	5.22	31.44	14.65	4.53	310.01	
15:56:42	12.63	5.33	29.97	14.67	4.62	309.76	
15:57:02	12.68	5.44	30.19	14.63	4.71	308.79	
15:57:22	12.82	5.56	32.10	14.62	4.80	309.18	
15:57:42	12.78	5.67	31.72	14.62	4.88	309.58	
15:58:02	12.71	5.79	30.94	14.64	4.97	309.25	
15:58:22	12.53	5.90	29.55	14.63	5.06	309.23	
15:58:42	12.52	6.01	29.10	14.61	5.15	308.60	
15:59:02	12.61	6.11	30.28	14.61	5.24	308.30	
15:59:22	12.71	6.22	31.07	14.61	5.31	308.64	
15:59:42	12.70	6.32	30.95	14.61	5.40	308.98	
16:00:02	12.67	6.42	30.97	14.61	5.48	308.94	
average	13.04	4.04	37.45	14.52	3.71	268.16	Test 3
minimum	12.48	3.38	14.59	14.22	3.15	58.15	
maximum	13.75	6.42	94.57	14.70	5.48	518.38	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
8:30:09	18.55	3.57	109.75	14.52	3.40	998.55	Test 4
8:30:29	18.55	3.61	106.89	14.51	3.43	968.54	
8:30:49	18.62	3.64	106.13	14.50	3.46	894.02	
8:31:09	18.65	3.66	102.07	14.53	3.44	815.68	
8:31:29	18.60	3.69	96.14	14.55	3.41	750.55	
8:31:49	18.62	3.66	94.12	14.47	3.48	682.92	
8:32:09	18.61	3.67	88.48	14.44	3.50	646.84	
8:32:29	18.61	3.67	83.36	14.46	3.50	644.14	
8:32:49	18.61	3.65	80.07	14.52	3.44	676.60	
8:33:09	18.68	3.63	85.18	14.59	3.37	724.23	
8:33:29	18.63	3.68	82.84	14.62	3.30	781.78	
8:33:49	18.65	3.69	85.06	14.66	3.26	861.96	
8:34:09	18.67	3.68	90.98	14.63	3.27	871.04	
8:34:29	18.67	3.67	91.29	14.61	3.31	843.41	
8:34:49	18.58	3.65	96.97	14.60	3.36	815.68	
8:35:09	18.58	3.66	94.34	14.60	3.33	898.00	
8:35:29	18.61	3.70	87.31	14.58	3.34	911.15	
8:35:49	18.63	3.69	85.40	14.60	3.35	928.46	
8:36:09	18.66	3.63	86.08	14.61	3.33	908.18	
8:36:29	18.66	3.60	82.06	14.61	3.34	828.72	
8:36:49	18.60	3.59	80.73	14.59	3.40	762.20	
8:37:09	18.66	3.59	79.96	14.53	3.44	728.27	
8:37:29	18.43	3.58	83.80	14.51	3.47	707.04	
8:37:49	18.71	3.56	83.68	14.54	3.46	696.80	
8:38:09	18.67	3.57	74.49	14.56	3.41	709.66	
8:38:29	18.62	3.63	68.65	14.60	3.34	794.28	
8:38:49	18.55	3.71	67.17	14.62	3.28	957.44	
8:39:09	18.53	3.75	67.62	14.67	3.24	1055.13	
8:39:29	18.57	3.74	73.46	14.69	3.21	1118.26	
8:39:49	18.59	3.73	80.15	14.68	3.22	1104.05	
8:40:09	18.61	3.71	88.35	14.72	3.18	1048.43	
8:40:29	18.61	3.74	88.24	14.74	3.16	1015.79	
8:40:49	18.58	3.77	83.63	14.74	3.15	1039.29	
8:41:09	18.59	3.74	83.63	14.73	3.15	1053.86	
8:41:29	18.65	3.68	92.04	14.71	3.18	1083.25	
8:41:49	18.69	3.62	98.76	14.67	3.22	1069.62	
8:42:09	18.73	3.56	108.35	14.65	3.29	984.21	
8:42:29	18.78	3.53	109.27	14.61	3.30	995.91	
8:42:49	18.78	3.53	99.03	14.63	3.27	1071.23	
8:43:09	18.77	3.54	85.92	14.67	3.24	1095.42	
8:43:29	18.73	3.54	76.52	14.67	3.25	1064.66	
8:43:49	18.74	3.53	73.94	14.72	3.19	1125.60	
8:44:09	18.71	3.56	71.87	14.77	3.13	1219.73	
8:44:29	18.72	3.54	77.21	14.75	3.13	1225.74	
8:44:49	18.75	3.51	82.88	14.74	3.18	1222.79	
8:45:09	18.74	3.55	81.20	14.75	3.17	1201.76	
8:45:29	18.67	3.65	72.69	14.73	3.13	1087.06	
8:45:49	18.62	3.70	62.66	14.76	3.11	982.50	
8:46:09	18.61	3.70	57.10	14.80	3.07	948.35	
8:46:29	18.59	3.75	52.94	14.80	3.08	993.65	
8:46:49	18.55	3.81	49.20	14.79	3.08	1100.16	
8:47:09	18.53	3.84	47.23	14.80	3.07	1138.65	
8:47:29	18.53	3.84	46.62	14.74	3.12	1082.63	
8:47:49	18.53	3.84	46.64	14.75	3.15	1037.60	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
8:48:09	18.55	3.85	45.66	14.71	3.17	1021.10
8:48:29	18.53	3.87	45.00	14.73	3.17	1008.49
8:48:49	18.36	3.92	43.15	14.77	3.10	1078.37
8:49:09	18.33	3.96	43.53	14.76	3.10	1069.95
8:49:29	18.41	3.96	43.63	14.73	3.16	986.57
8:49:49	18.41	3.97	43.46	14.67	3.21	957.38
8:50:09	18.39	3.95	44.66	14.67	3.21	972.35
8:50:29	18.39	3.90	49.79	14.71	3.19	992.01
8:50:49	18.38	3.86	52.20	14.74	3.16	997.41
8:51:09	18.40	3.82	55.39	14.70	3.20	975.57
8:51:29	18.40	3.76	70.63	14.66	3.24	989.27
8:51:49	18.42	3.76	78.35	14.68	3.20	1082.37
8:52:09	18.46	3.74	77.39	14.74	3.16	1149.31
8:52:29	18.43	3.72	82.94	14.76	3.16	1176.34
8:52:49	18.49	3.69	94.26	14.75	3.18	1178.43
8:53:09	18.57	3.64	118.09	14.74	3.15	1225.56
8:53:29	18.64	3.53	155.70	14.81	3.10	1228.63
8:53:49	18.70	3.47	190.77	14.82	3.08	1173.90
8:54:09	18.63	3.50	184.86	14.78	3.09	1067.15
8:54:29	18.52	3.59	150.97	14.80	3.08	1024.65
8:54:49	18.52	3.62	124.61	14.76	3.12	940.53
8:55:09	18.50	3.65	105.86	14.75	3.15	913.52
8:55:29	18.49	3.68	95.87	14.73	3.15	944.77
8:55:49	18.47	3.69	94.32	14.71	3.15	980.45
8:56:09	18.45	3.70	90.03	14.73	3.17	1026.74
8:56:29	18.44	3.73	83.72	14.72	3.20	1032.75
8:56:49	18.46	3.71	83.20	14.72	3.17	1075.68
8:57:09	18.49	3.67	90.09	14.73	3.15	1092.15
8:57:29	18.48	3.67	111.34	14.73	3.16	1085.53
8:57:49	18.44	3.66	129.76	14.74	3.15	1091.09
8:58:09	18.33	3.62	147.91	14.72	3.19	1034.77
8:58:29	18.09	3.70	139.65	14.70	3.20	1000.17
8:58:49	17.91	3.73	119.98	14.68	3.22	962.20
8:59:09	17.99	3.75	105.70	14.66	3.27	894.51
8:59:29	18.38	3.77	98.37	14.63	3.30	863.25
8:59:49	18.59	3.75	94.38	14.60	3.29	890.86
9:00:09	18.60	3.71	98.58	14.65	3.25	932.54
9:00:29	18.63	3.70	97.90	14.67	3.22	976.22
9:00:49	18.63	3.75	89.50	14.68	3.22	949.12
9:01:09	18.53	3.85	78.56	14.66	3.28	877.95
9:01:29	18.47	3.93	68.61	14.56	3.37	760.86
9:01:49	18.44	3.96	64.12	14.49	3.47	619.10
9:02:09	18.44	3.96	65.58	14.51	3.53	505.77
9:02:29	18.46	3.96	65.45	14.51	3.53	459.67
9:02:49	18.43	3.97	59.61	14.55	3.46	509.00
9:03:09	18.41	3.98	55.11	14.54	3.40	647.60
9:03:29	18.26	3.97	51.24	14.60	3.36	750.50
9:03:49	18.10	4.01	48.22	14.64	3.31	835.37
9:04:09	17.99	4.05	46.16	14.64	3.26	916.35
9:04:29	17.94	4.07	44.85	14.66	3.26	927.23
9:04:49	17.96	4.08	44.31	14.65	3.29	886.14
9:05:09	17.98	4.12	44.11	14.62	3.31	850.53
9:05:29	18.01	4.13	43.70	14.60	3.35	766.82
9:05:49	17.87	4.13	42.02	14.50	3.44	656.34

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
9:06:09	17.81	4.09	42.63	14.49	3.53	602.42
9:06:29	17.81	4.08	43.48	14.52	3.53	558.52
9:06:49	17.79	4.09	42.98	14.53	3.47	532.52
9:07:09	17.82	4.10	43.56	14.58	3.42	544.95
9:07:29	17.84	4.07	43.05	14.59	3.41	543.66
9:07:49	17.89	4.05	42.60	14.64	3.37	576.32
9:08:09	17.86	4.08	42.18	14.67	3.31	600.57
9:08:29	17.83	4.12	41.28	14.65	3.33	556.59
9:08:49	17.83	4.15	42.94	14.63	3.36	530.96
9:09:09	17.82	4.15	49.02	14.60	3.43	530.91
9:09:29	17.84	4.12	65.24	14.60	3.46	548.26
9:09:49	17.89	4.05	75.21	14.54	3.47	606.79
9:10:09	17.81	4.06	71.07	14.48	3.48	674.47
9:10:29	17.83	4.10	63.86	14.51	3.47	763.04
9:10:49	17.82	4.09	60.36	14.49	3.50	788.59
9:11:09	17.82	4.11	59.69	14.50	3.51	715.57
9:11:29	17.83	4.08	64.14	14.46	3.55	599.11
9:11:49	17.86	4.03	67.57	14.44	3.62	483.64
9:12:09	17.90	3.99	71.02	14.42	3.67	391.82
9:12:29	18.00	3.92	81.34	14.43	3.67	358.47
9:12:49	18.03	3.90	83.23	14.43	3.66	400.59
9:13:09	18.00	3.94	76.72	14.43	3.65	449.88
9:13:29	17.86	4.05	67.70	14.40	3.73	414.56
9:13:49	17.81	4.10	64.31	14.35	3.78	371.30
9:14:09	17.85	4.07	63.53	14.32	3.78	367.48
9:14:29	18.04	3.97	61.47	14.30	3.82	361.79
9:14:49	18.12	3.93	61.94	14.32	3.80	364.05
9:15:09	18.14	3.94	66.13	14.34	3.79	362.86
9:15:29	18.13	3.96	76.99	14.34	3.80	365.71
9:15:49	18.14	3.98	75.77	14.34	3.78	358.17
9:16:09	18.10	4.01	67.16	14.35	3.79	321.65
9:16:29	18.11	4.00	59.43	14.32	3.85	270.44
9:16:49	18.11	4.02	54.02	14.35	3.82	239.28
9:17:09	18.11	4.06	49.08	14.39	3.76	211.76
9:17:29	18.12	4.07	46.22	14.40	3.72	195.98
9:17:49	18.10	4.08	44.44	14.44	3.69	241.89
9:18:09	18.07	4.12	42.62	14.46	3.64	377.93
9:18:29	18.08	4.13	42.89	14.46	3.66	444.71
9:18:49	18.08	4.13	42.12	14.43	3.72	429.12
9:19:09	18.09	4.12	41.81	14.43	3.70	410.51
9:19:29	18.10	4.11	42.01	14.43	3.69	393.92
9:19:49	18.06	4.15	41.70	14.41	3.75	417.38
9:20:09	18.05	4.19	41.81	14.34	3.79	444.47
9:20:29	18.02	4.21	41.88	14.36	3.78	432.55
9:20:49	18.00	4.18	41.40	14.39	3.74	404.09
9:21:09	18.01	4.16	41.82	14.42	3.68	377.24
9:21:29	18.00	4.19	41.20	14.47	3.66	345.64
9:21:49	17.96	4.23	41.01	14.48	3.65	294.52
9:22:09	17.95	4.24	41.29	14.46	3.68	253.09
9:22:29	17.90	4.29	41.35	14.42	3.72	218.65
9:22:49	17.94	4.30	42.56	14.40	3.77	195.85
9:23:09	18.16	4.28	42.98	14.40	3.77	194.27
9:23:29	18.18	4.31	43.88	14.35	3.83	193.56
9:23:49	18.12	4.37	43.34	14.33	3.86	187.70

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
9:24:09	18.10	4.42	43.18	14.32	3.88	202.67
9:24:29	18.07	4.45	43.87	14.26	3.92	212.25
9:24:49	18.06	4.48	43.88	14.23	3.95	213.77
9:25:09	18.04	4.49	43.67	14.25	3.93	239.80
9:25:29	18.03	4.48	43.40	14.29	3.87	316.58
9:25:49	18.07	4.46	43.05	14.33	3.83	378.27
9:26:09	18.10	4.46	42.94	14.36	3.80	380.74
9:26:29	18.13	4.43	42.83	14.34	3.83	336.82
9:26:49	18.15	4.37	43.33	14.35	3.82	278.43
9:27:09	18.17	4.36	44.81	14.36	3.80	247.82
9:27:29	18.20	4.35	44.57	14.39	3.78	233.97
9:27:49	18.19	4.37	44.25	14.45	3.72	252.53
9:28:09	18.10	4.35	43.64	14.42	3.73	259.05
9:28:29	18.13	4.36	43.26	14.40	3.78	241.36
9:28:49	18.16	4.37	44.02	14.33	3.87	211.54
9:29:09	18.15	4.40	43.85	14.27	3.95	184.36
9:29:29	18.12	4.45	44.12	14.23	4.01	149.67
9:29:49	18.15	4.41	44.04	14.19	4.06	127.90
9:30:09	18.19	4.34	44.12	14.21	4.07	117.14
9:30:29	18.21	4.32	43.93	14.17	4.09	98.90
9:30:49	18.22	4.32	44.51	14.12	4.11	91.38
9:31:09	18.24	4.34	44.95	14.13	4.10	94.46
9:31:29	18.17	4.38	43.74	14.15	4.10	100.75
9:31:49	18.15	4.41	44.02	14.13	4.13	97.68
9:32:09	18.18	4.37	44.11	14.10	4.11	86.58
9:32:29	18.17	4.40	44.60	14.16	4.05	96.14
9:32:49	18.06	4.54	43.64	14.27	3.95	144.58
9:33:09	17.99	4.62	43.74	14.25	3.97	148.79
9:33:29	17.99	4.62	43.88	14.21	4.03	121.86
9:33:49	18.01	4.59	44.79	14.14	4.07	99.52
9:34:09	18.03	4.54	44.38	14.14	4.07	96.56
9:34:29	18.06	4.49	44.33	14.23	4.00	147.69
9:34:49	18.14	4.44	44.70	14.26	3.94	215.17
9:35:09	18.12	4.44	43.68	14.28	3.91	256.92
9:35:29	18.11	4.46	43.65	14.28	3.87	305.52
9:35:49	18.07	4.47	43.80	14.33	3.84	348.30
9:36:09	18.08	4.49	44.12	14.39	3.76	390.73
9:36:29	18.05	4.48	43.58	14.42	3.70	391.79
9:36:49	18.08	4.44	43.39	14.43	3.71	368.96
9:37:09	18.10	4.41	43.64	14.45	3.70	379.30
9:37:29	18.14	4.37	43.00	14.43	3.69	386.43
9:37:49	18.16	4.33	43.33	14.40	3.65	490.44
9:38:09	18.21	4.30	43.74	14.44	3.63	589.02
9:38:29	18.15	4.34	43.30	14.42	3.61	691.12
9:38:49	18.12	4.35	43.20	14.46	3.58	856.15
9:39:09	18.17	4.36	43.73	14.46	3.54	1018.89
9:39:29	18.19	4.34	43.69	14.47	3.54	1022.48
9:39:49	18.20	4.32	48.51	14.43	3.61	868.67
9:40:09	18.19	4.35	50.17	14.40	3.67	707.77
9:40:29	18.18	4.35	50.98	14.37	3.74	582.33
9:40:49	18.19	4.29	50.83	14.33	3.77	523.13
9:41:09	18.24	4.19	53.19	14.35	3.76	470.51
9:41:29	18.29	4.14	55.82	14.41	3.73	428.83
9:41:49	18.31	4.17	54.42	14.40	3.73	396.11

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
9:42:09	18.29	4.22	51.15	14.36	3.76	362.04	
9:42:29	18.23	4.29	48.21	14.33	3.83	327.40	
9:42:49	18.19	4.35	46.96	14.30	3.85	325.75	
9:43:09	18.12	4.45	47.17	14.35	3.83	302.76	
9:43:29	18.06	4.53	46.14	14.29	3.90	254.91	
9:43:49	18.01	4.56	46.14	14.22	3.95	228.61	
9:44:09	18.00	4.57	45.98	14.22	3.97	228.51	
9:44:29	18.01	4.55	45.56	14.21	3.96	227.57	
9:44:49	18.01	4.56	44.70	14.24	3.96	214.31	
average	18.27	4.01	65.15	14.51	3.52	644.32	Test 4
minimum	17.79	3.47	41.01	14.10	3.07	86.58	
maximum	18.78	4.62	190.77	14.82	4.13	1228.63	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:15:09	18.29	4.24	47.43	14.78	3.29	401.74	Test 5
10:15:29	18.23	4.31	46.03	14.79	3.28	462.98	
10:15:49	18.18	4.39	45.15	14.74	3.34	532.16	
10:16:09	18.18	4.39	44.68	14.70	3.40	554.57	
10:16:29	18.18	4.38	44.25	14.64	3.45	558.39	
10:16:49	18.20	4.35	44.29	14.59	3.51	529.22	
10:17:09	18.25	4.29	44.48	14.62	3.46	571.99	
10:17:29	18.24	4.31	45.53	14.56	3.43	649.73	
10:17:49	18.21	4.36	45.92	14.59	3.43	629.16	
10:18:09	18.19	4.35	46.73	14.63	3.48	530.99	
10:18:29	18.24	4.29	46.89	14.60	3.53	427.32	
10:18:49	18.27	4.27	47.60	14.59	3.57	332.46	
10:19:09	18.27	4.26	47.78	14.59	3.59	260.87	
10:19:29	18.28	4.27	47.90	14.59	3.56	210.50	
10:19:49	18.28	4.26	47.01	14.67	3.51	172.84	
10:20:09	18.26	4.27	46.70	14.71	3.46	151.61	
10:20:29	18.26	4.28	47.84	14.70	3.47	141.55	
10:20:49	18.25	4.31	47.04	14.71	3.46	150.86	
10:21:09	18.17	4.39	46.01	14.73	3.42	176.39	
10:21:29	18.13	4.44	44.51	14.73	3.43	172.63	
10:21:49	18.14	4.44	44.21	14.71	3.45	187.44	
10:22:09	18.15	4.42	44.15	14.67	3.48	315.15	
10:22:29	18.15	4.42	43.87	14.61	3.53	394.54	
10:22:49	18.15	4.43	43.54	14.62	3.51	409.60	
10:23:09	18.20	4.36	43.35	14.60	3.53	379.18	
10:23:29	18.23	4.33	43.20	14.62	3.51	340.04	
10:23:49	18.24	4.32	43.27	14.67	3.45	304.53	
10:24:09	18.26	4.29	43.28	14.68	3.48	276.84	
10:24:29	18.28	4.26	44.59	14.61	3.56	240.84	
10:24:49	18.28	4.24	48.41	14.58	3.59	273.88	
10:25:09	18.27	4.26	54.36	14.56	3.61	313.32	
10:25:29	18.24	4.31	56.18	14.54	3.60	324.42	
10:25:49	18.18	4.39	57.06	14.56	3.60	321.13	
10:26:09	18.17	4.40	55.94	14.58	3.56	441.69	
10:26:29	18.21	4.38	55.08	14.58	3.52	533.86	
10:26:49	18.19	4.36	55.30	14.58	3.51	524.36	
10:27:09	18.25	4.30	56.95	14.59	3.52	570.21	
10:27:29	18.27	4.27	55.87	14.53	3.49	626.58	
10:27:49	18.27	4.26	54.59	14.68	3.34	713.96	
10:28:09	18.23	4.28	53.38	14.73	3.27	682.65	
10:28:29	18.25	4.27	54.20	14.74	3.21	636.20	
10:28:49	18.27	4.24	56.10	14.78	3.25	541.91	
10:29:09	18.30	4.21	59.39	14.67	3.39	472.00	
10:29:29	18.30	4.21	58.02	14.59	3.54	376.00	
10:29:49	18.27	4.26	54.74	14.54	3.67	284.33	
10:30:09	18.19	4.32	53.27	14.39	3.82	210.18	
10:30:29	18.20	4.33	53.91	14.34	3.92	156.68	
10:30:49	18.20	4.33	54.89	14.34	3.93	120.11	
10:31:09	18.21	4.32	55.75	14.28	3.97	96.28	
10:31:29	18.24	4.28	58.20	14.24	4.03	73.91	
10:31:49	18.28	4.24	56.80	14.25	4.05	56.12	
10:32:09	18.26	4.24	56.78	14.22	4.10	48.31	
10:32:29	18.27	4.26	54.63	14.23	4.06	51.22	
10:32:49	18.22	4.29	53.56	14.28	3.97	110.12	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
10:33:09	18.23	4.32	52.91	14.34	3.91	163.90
10:33:29	18.24	4.30	50.73	14.32	3.90	183.87
10:33:49	18.28	4.26	48.95	14.35	3.87	186.07
10:34:09	18.28	4.26	47.00	14.38	3.83	177.34
10:34:29	18.29	4.24	45.65	14.39	3.83	164.33
10:34:49	18.33	4.20	45.77	14.41	3.80	152.95
10:35:09	18.31	4.22	45.83	14.50	3.71	148.60
10:35:29	18.24	4.30	45.10	14.58	3.60	151.02
10:35:49	18.20	4.35	44.77	14.62	3.53	166.45
10:36:09	18.22	4.34	44.79	14.65	3.52	162.29
10:36:29	18.27	4.27	46.32	14.64	3.56	140.45
10:36:49	18.29	4.23	47.86	14.59	3.61	129.74
10:37:09	18.28	4.25	54.49	14.59	3.58	177.19
10:37:29	18.28	4.25	67.81	14.65	3.49	278.30
10:37:49	18.28	4.25	72.50	14.61	3.51	372.36
10:38:09	18.22	4.26	70.53	14.55	3.53	503.46
10:38:29	18.17	4.29	64.46	14.52	3.52	621.35
10:38:49	18.15	4.32	59.36	14.54	3.44	661.61
10:39:09	18.16	4.32	59.02	14.58	3.40	640.28
10:39:29	18.15	4.32	58.25	14.63	3.40	690.93
10:39:49	18.15	4.35	56.81	14.59	3.43	693.32
10:40:09	18.14	4.38	54.09	14.60	3.46	707.40
10:40:29	18.14	4.38	52.83	14.58	3.47	692.10
10:40:49	18.10	4.35	53.32	14.55	3.45	630.15
10:41:09	18.14	4.33	53.54	14.61	3.46	591.73
10:41:29	18.17	4.30	52.26	14.57	3.53	544.62
10:41:49	18.16	4.31	51.88	14.54	3.55	517.84
10:42:09	18.17	4.34	50.40	14.55	3.53	491.24
10:42:29	18.13	4.38	49.07	14.61	3.52	437.10
10:42:49	18.14	4.38	50.80	14.58	3.54	399.35
10:43:09	18.15	4.34	54.81	14.59	3.54	398.50
10:43:29	18.20	4.31	55.13	14.51	3.64	400.74
10:43:49	18.24	4.24	54.31	14.44	3.73	421.78
10:44:09	18.28	4.21	53.03	14.42	3.74	448.79
10:44:29	18.26	4.20	54.61	14.37	3.81	438.58
10:44:49	18.27	4.19	61.80	14.35	3.83	437.82
10:45:09	18.26	4.20	66.18	14.33	3.85	441.34
10:45:29	18.27	4.22	63.90	14.34	3.85	405.34
10:45:49	18.23	4.24	59.23	14.35	3.82	374.61
10:46:09	18.24	4.24	55.42	14.37	3.82	409.53
10:46:29	18.28	4.20	50.79	14.38	3.84	425.62
10:46:49	18.34	4.14	49.17	14.36	3.83	429.58
10:47:09	18.36	4.11	48.13	14.32	3.83	452.52
10:47:29	18.39	4.10	46.50	14.33	3.82	459.70
10:47:49	18.40	4.09	46.29	14.37	3.76	511.57
10:48:09	18.40	4.09	46.10	14.38	3.76	578.46
10:48:29	18.44	4.06	45.44	14.35	3.77	595.51
10:48:49	18.46	4.03	45.97	14.38	3.76	570.48
10:49:09	18.51	3.96	46.06	14.45	3.68	556.17
10:49:29	18.51	3.96	45.67	14.54	3.56	557.72
10:49:49	18.50	3.98	45.49	14.56	3.52	494.82
10:50:09	18.50	4.00	45.75	14.59	3.52	406.12
10:50:29	18.48	4.04	44.70	14.56	3.57	337.70
10:50:49	18.41	4.12	44.34	14.57	3.56	308.28

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:51:09	18.38	4.16	44.22	14.59	3.54	318.96	
10:51:29	18.30	4.26	44.23	14.59	3.51	366.86	
10:51:49	18.18	4.32	42.82	14.59	3.53	399.25	
10:52:09	18.18	4.36	42.81	14.56	3.59	421.65	
10:52:29	18.14	4.38	42.94	14.51	3.63	402.77	
10:52:49	18.17	4.38	42.47	14.51	3.62	332.48	
10:53:09	18.17	4.32	42.77	14.52	3.64	291.01	
10:53:29	18.20	4.30	43.48	14.51	3.64	354.91	
10:53:49	18.22	4.34	43.07	14.52	3.60	525.52	
10:54:09	18.17	4.36	43.22	14.53	3.59	576.45	
10:54:29	18.17	4.38	43.26	14.54	3.56	584.70	
10:54:49	18.19	4.36	42.81	14.56	3.55	570.96	
10:55:09	18.19	4.33	42.77	14.57	3.53	545.38	
10:55:29	18.18	4.34	43.20	14.60	3.51	551.98	
10:55:49	18.11	4.40	42.92	14.63	3.46	578.70	
10:56:09	18.12	4.41	42.73	14.61	3.47	572.60	
10:56:29	18.13	4.41	42.98	14.56	3.54	558.51	
10:56:49	18.13	4.40	42.94	14.53	3.59	574.62	
10:57:09	18.15	4.38	43.83	14.47	3.66	549.74	
10:57:29	18.18	4.37	44.12	14.45	3.69	537.22	
10:57:49	18.21	4.32	43.86	14.41	3.71	489.01	
10:58:09	18.23	4.28	43.61	14.45	3.69	424.74	
10:58:29	18.29	4.25	43.66	14.45	3.71	384.21	
10:58:49	18.30	4.23	44.08	14.46	3.72	344.62	
10:59:09	18.29	4.26	43.41	14.47	3.69	437.85	
10:59:29	18.26	4.29	45.64	14.41	3.72	498.26	
10:59:49	18.20	4.34	44.72	14.40	3.73	557.31	
average	18.24	4.28	49.62	14.53	3.60	401.59	Test 5
minimum	18.10	3.96	42.47	14.22	3.21	48.31	
maximum	18.51	4.44	72.50	14.79	4.10	713.96	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
11:30:09	18.36	4.29	54.42	14.35	3.83	345.04	Test 6
11:30:29	18.36	4.27	53.84	14.35	3.84	406.39	
11:30:49	18.37	4.26	52.76	14.29	3.91	389.04	
11:31:09	18.34	4.29	50.66	14.28	3.93	344.44	
11:31:29	18.32	4.30	50.50	14.26	3.95	291.85	
11:31:49	18.33	4.29	49.41	14.32	3.89	285.04	
11:32:09	18.35	4.28	50.49	14.37	3.83	299.69	
11:32:29	18.35	4.28	51.55	14.35	3.86	266.17	
11:32:49	18.29	4.33	50.82	14.31	3.91	226.19	
11:33:09	18.29	4.36	49.81	14.30	3.92	206.83	
11:33:29	18.30	4.37	48.90	14.34	3.87	272.40	
11:33:49	18.30	4.34	48.88	14.34	3.88	297.34	
11:34:09	18.33	4.31	49.84	14.32	3.90	277.60	
11:34:29	18.25	4.30	49.38	14.30	3.92	276.41	
11:34:49	18.23	4.33	48.40	14.32	3.90	257.87	
11:35:09	18.22	4.34	47.48	14.28	3.94	219.29	
11:35:29	18.26	4.32	47.64	14.18	4.06	185.33	
11:35:49	18.26	4.31	49.97	14.16	4.12	154.69	
11:36:09	18.26	4.29	51.99	14.20	4.08	136.33	
11:36:29	18.28	4.28	51.53	14.23	4.03	130.94	
11:36:49	18.27	4.26	50.22	14.26	3.98	130.74	
11:37:09	18.31	4.22	48.84	14.26	3.99	118.42	
11:37:29	18.33	4.21	48.98	14.27	3.99	117.70	
11:37:49	18.30	4.23	48.79	14.28	3.97	129.38	
11:38:09	18.28	4.28	51.56	14.34	3.90	147.29	
11:38:29	18.26	4.28	53.19	14.36	3.87	164.06	
11:38:49	18.27	4.24	54.00	14.36	3.87	158.13	
11:39:09	18.32	4.19	53.93	14.38	3.86	154.34	
11:39:29	18.33	4.19	51.55	14.31	3.91	155.09	
11:39:49	18.34	4.17	49.06	14.29	3.96	177.36	
11:40:09	18.31	4.21	47.55	14.33	3.89	221.49	
11:40:29	18.27	4.29	46.64	14.36	3.86	209.93	
11:40:49	18.23	4.33	45.70	14.38	3.83	206.51	
11:41:09	18.23	4.35	45.84	14.42	3.78	242.03	
11:41:29	18.20	4.35	45.84	14.48	3.69	324.54	
11:41:49	18.19	4.35	45.57	14.51	3.65	326.25	
11:42:09	18.18	4.36	46.02	14.54	3.63	321.30	
11:42:29	18.18	4.36	45.68	14.57	3.56	369.13	
11:42:49	18.12	4.44	44.90	14.61	3.50	458.43	
11:43:09	18.01	4.51	44.38	14.60	3.46	501.68	
11:43:29	17.99	4.51	44.57	14.58	3.53	444.77	
11:43:49	18.06	4.44	47.24	14.53	3.62	384.01	
11:44:09	18.14	4.32	53.91	14.45	3.73	326.93	
11:44:29	18.23	4.22	62.11	14.38	3.84	291.25	
11:44:49	18.23	4.20	60.80	14.36	3.86	307.28	
11:45:09	18.26	4.20	57.11	14.36	3.86	321.05	
11:45:29	18.26	4.22	54.35	14.35	3.87	302.04	
11:45:49	18.29	4.19	54.77	14.40	3.81	280.52	
11:46:09	18.27	4.21	55.89	14.39	3.81	240.81	
11:46:29	18.30	4.24	56.36	14.44	3.73	239.57	
11:46:49	18.34	4.26	54.68	14.50	3.66	237.50	
11:47:09	18.33	4.29	52.66	14.51	3.64	228.61	
11:47:29	18.30	4.33	51.20	14.50	3.66	215.94	
11:47:49	18.33	4.30	52.42	14.51	3.66	234.52	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:48:09	18.40	4.26	55.33	14.54	3.63	299.09
11:48:29	18.48	4.22	58.20	14.52	3.62	339.23
11:48:49	18.53	4.17	60.76	14.58	3.55	423.66
11:49:09	18.61	4.09	63.07	14.56	3.54	465.28
11:49:29	18.60	4.11	61.62	14.54	3.60	403.29
11:49:49	18.55	4.16	59.62	14.50	3.66	344.17
11:50:09	18.54	4.17	60.73	14.47	3.71	283.47
11:50:29	18.55	4.17	61.66	14.46	3.71	254.53
11:50:49	18.59	4.13	64.63	14.51	3.67	282.79
11:51:09	18.55	4.19	63.31	14.54	3.60	332.15
11:51:29	18.51	4.26	60.33	14.59	3.53	411.82
11:51:49	18.53	4.23	56.66	14.61	3.52	419.48
11:52:09	18.52	4.25	53.41	14.62	3.52	409.44
11:52:29	18.49	4.29	51.34	14.62	3.51	452.78
11:52:49	18.46	4.34	49.84	14.58	3.55	410.21
11:53:09	18.45	4.35	49.32	14.54	3.60	364.40
11:53:29	18.48	4.33	49.57	14.52	3.65	288.32
11:53:49	18.50	4.29	49.42	14.50	3.66	237.27
11:54:09	18.46	4.27	49.34	14.54	3.61	233.43
11:54:29	18.45	4.30	48.49	14.55	3.60	248.13
11:54:49	18.44	4.32	48.07	14.49	3.67	242.09
11:55:09	18.44	4.34	47.17	14.46	3.72	255.46
11:55:29	18.45	4.33	46.53	14.48	3.69	282.59
11:55:49	18.47	4.33	46.59	14.53	3.61	339.85
11:56:09	18.42	4.36	46.39	14.54	3.60	324.18
11:56:29	18.40	4.41	46.79	14.53	3.62	296.88
11:56:49	18.40	4.40	48.01	14.48	3.70	252.12
11:57:09	18.42	4.41	48.61	14.47	3.70	231.27
11:57:29	18.40	4.42	49.30	14.52	3.67	263.84
11:57:49	18.44	4.38	48.74	14.46	3.70	252.21
11:58:09	18.48	4.33	48.09	14.38	3.80	218.14
11:58:29	18.47	4.31	48.51	14.37	3.83	197.65
11:58:49	18.49	4.29	48.51	14.49	3.66	308.77
11:59:09	18.48	4.31	48.94	14.50	3.63	341.53
11:59:29	16.54	4.34	34.60	14.54	3.60	303.44
11:59:49	16.95	4.36	37.17	14.58	3.54	289.93
12:00:09	16.97	4.39	37.76	14.61	3.53	286.28
12:00:29	16.80	4.39	36.41	14.59	3.54	269.35
12:00:49	16.92	4.41	35.82	14.63	3.50	303.74
12:01:09	16.84	4.43	35.88	14.62	3.50	266.34
12:01:29	16.74	4.46	34.66	14.68	3.44	243.58
12:01:49	16.68	4.47	33.91	14.67	3.42	229.37
12:02:09	16.87	4.47	35.44	14.66	3.45	218.66
12:02:29	16.82	4.48	34.66	14.66	3.46	192.60
12:02:49	16.76	4.50	34.20	14.61	3.57	158.11
12:03:09	16.68	4.52	33.33	14.51	3.67	128.98
12:03:29	16.71	4.53	33.80	14.51	3.68	158.46
12:03:49	16.81	4.53	34.97	14.51	3.68	166.44
12:04:09	16.92	4.50	36.01	14.50	3.69	154.72
12:04:29	16.90	4.47	36.27	14.53	3.64	147.50
12:04:49	16.78	4.49	36.04	14.54	3.61	166.16
12:05:09	16.79	4.52	36.43	14.57	3.54	220.97
12:05:29	16.98	4.50	37.31	14.57	3.53	234.47
12:05:49	16.92	4.46	37.19	14.55	3.59	203.05

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
12:06:09	16.88	4.45	36.46	14.54	3.63	155.26	
12:06:29	16.90	4.42	35.91	14.55	3.64	135.27	
12:06:49	16.77	4.43	35.21	14.61	3.50	220.35	
12:07:09	16.79	4.44	34.36	14.63	3.45	306.47	
12:07:29	16.81	4.44	34.91	14.65	3.41	461.18	
12:07:49	16.87	4.45	35.04	14.62	3.42	541.27	
12:08:09	16.97	4.41	35.96	14.52	3.55	497.11	
12:08:29	17.11	4.34	37.27	14.41	3.73	377.13	
12:08:49	17.28	4.30	39.20	14.35	3.83	274.85	
12:09:09	17.96	4.29	44.29	14.33	3.86	215.51	
12:09:29	18.41	4.28	47.82	14.33	3.87	190.34	
12:09:49	18.48	4.21	48.21	14.38	3.80	192.96	
12:10:09	18.50	4.20	49.50	14.39	3.78	193.40	
12:10:29	18.51	4.19	49.99	14.41	3.72	230.58	
12:10:49	18.46	4.21	51.06	14.44	3.70	312.43	
12:11:09	18.42	4.25	50.16	14.44	3.68	355.68	
12:11:29	18.40	4.28	50.65	14.46	3.67	374.31	
12:11:49	18.40	4.31	49.12	14.42	3.71	327.23	
12:12:09	18.40	4.32	49.13	14.44	3.71	282.50	
12:12:29	18.40	4.31	48.72	14.41	3.75	248.14	
12:12:49	18.41	4.31	48.55	14.39	3.77	236.55	
12:13:09	18.40	4.34	47.61	14.37	3.81	204.96	
12:13:29	18.39	4.36	47.24	14.37	3.84	170.62	
12:13:49	18.35	4.38	47.09	14.38	3.83	153.87	
12:14:09	18.34	4.41	47.00	14.37	3.83	144.00	
12:14:29	18.36	4.40	46.79	14.38	3.83	166.65	
12:14:49	18.37	4.38	46.46	14.36	3.82	189.17	
average	18.03	4.32	47.68	14.45	3.72	267.90	Test 6
minimum	16.54	4.09	33.33	14.16	3.41	117.70	
maximum	18.61	4.53	64.63	14.68	4.12	541.27	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
12:45:09	18.56	4.14	50.29	14.30	3.87	181.49	Test 7
12:45:29	18.54	4.13	52.05	14.28	3.93	138.39	
12:45:49	18.52	4.18	53.26	14.27	3.93	119.64	
12:46:09	18.47	4.24	52.95	14.33	3.88	126.20	
12:46:29	18.43	4.30	51.93	14.35	3.83	127.77	
12:46:49	18.41	4.35	50.33	14.38	3.78	192.73	
12:47:09	18.41	4.37	49.54	14.41	3.70	406.28	
12:47:29	18.37	4.43	49.15	14.48	3.61	571.67	
12:47:49	18.32	4.49	48.30	14.51	3.56	545.93	
12:48:09	18.32	4.48	47.58	14.53	3.58	440.20	
12:48:29	18.32	4.47	47.73	14.46	3.66	340.28	
12:48:49	18.35	4.43	47.67	14.38	3.79	252.39	
12:49:09	18.37	4.42	47.91	14.28	3.89	186.63	
12:49:29	18.35	4.43	48.22	14.29	3.91	152.40	
12:49:49	18.33	4.46	47.65	14.30	3.91	138.70	
12:50:09	18.28	4.51	47.68	14.34	3.87	167.66	
12:50:29	18.28	4.53	47.75	14.37	3.82	175.52	
12:50:49	18.28	4.51	47.65	14.38	3.79	178.57	
12:51:09	18.33	4.47	48.76	14.38	3.77	203.52	
12:51:29	18.37	4.42	48.99	14.35	3.81	209.27	
12:51:49	18.41	4.36	51.10	14.32	3.85	230.77	
12:52:09	18.46	4.33	53.03	14.32	3.85	263.62	
12:52:29	18.48	4.30	57.42	14.28	3.89	232.76	
12:52:49	18.48	4.29	58.33	14.27	3.92	197.51	
12:53:09	18.50	4.29	57.88	14.33	3.84	210.00	
12:53:29	18.49	4.31	57.33	14.41	3.73	248.98	
12:53:49	18.48	4.30	55.94	14.51	3.59	449.59	
12:54:09	18.46	4.36	53.95	14.46	3.53	620.90	
12:54:29	18.42	4.39	53.56	14.51	3.50	701.45	
12:54:49	18.39	4.43	51.76	14.45	3.53	629.29	
12:55:09	18.40	4.42	50.48	14.48	3.58	536.65	
12:55:29	18.43	4.40	50.20	14.45	3.67	455.91	
12:55:49	18.44	4.37	50.27	14.40	3.73	391.12	
12:56:09	18.47	4.35	49.86	14.36	3.81	307.68	
12:56:29	18.49	4.34	49.87	14.33	3.83	252.49	
12:56:49	18.47	4.34	50.79	14.33	3.83	231.76	
12:57:09	18.45	4.38	50.64	14.36	3.81	206.87	
12:57:29	18.42	4.41	49.82	14.36	3.82	188.40	
12:57:49	18.44	4.39	49.34	14.39	3.79	177.27	
12:58:09	18.46	4.39	48.72	14.42	3.75	187.97	
12:58:29	18.42	4.42	48.75	14.45	3.71	263.64	
12:58:49	18.43	4.43	48.58	14.47	3.64	465.65	
12:59:09	18.37	4.49	48.65	14.54	3.55	570.94	
12:59:29	18.34	4.57	48.72	14.59	3.48	547.58	
12:59:49	18.32	4.58	47.97	14.55	3.49	485.25	
13:00:09	18.35	4.55	48.18	14.48	3.61	355.44	
13:00:29	18.39	4.51	48.37	14.46	3.68	307.18	
13:00:49	18.36	4.50	47.97	14.48	3.64	393.87	
13:01:09	18.31	4.55	47.20	14.49	3.61	444.45	
13:01:29	18.25	4.59	46.92	14.47	3.66	380.44	
13:01:49	18.30	4.56	47.01	14.41	3.75	282.34	
13:02:09	18.34	4.50	46 90	14.35	3.82	215.11	
13:02:29	18.35	4.48	46.82	14.37	3.84	167.62	
13:02:49	18.36	4.47	47.09	14.35	3.86	138.38	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:03:09	18.40	4.44	48.12	14.37	3.84	123.94	
13:03:29	18.40	4.43	48.17	14.38	3.85	115.79	
13:03:49	18.40	4.43	47.86	14.38	3.84	128.83	
13:04:09	18.41	4.44	47.37	14.37	3.81	237.01	
13:04:29	18.06	4.46	44.72	14.40	3.77	329.04	
13:04:49	15.96	4.49	29.21	14.37	3.79	301.91	
13:05:09	15.57	4.48	26.97	14.33	3.85	239.71	
13:05:29	15.01	4.50	23.80	14.31	3.87	197.64	
13:05:49	15.00	4.52	24.19	14.30	3.90	167.41	
13:06:09	15.19	4.50	24.09	14.28	3.95	132.52	
13:06:29	15.18	4.46	23.76	14.25	4.00	102.51	
13:06:49	15.64	4.40	28.39	14.32	3.94	114.60	
13:07:09	14.91	4.40	22.65	14.35	3.86	124.86	
13:07:29	14.63	4.33	19.70	14.33	3.89	125.47	
13:07:49	14.52	4.27	19.06	14.34	3.90	123.59	
13:08:09	14.48	4.27	20.74	14.32	3.93	120.94	
13:08:29	14.43	4.28	20.04	14.34	3.89	136.17	
13:08:49	14.37	4.31	19.38	14.37	3.83	167.83	
13:09:09	14.36	4.31	20.15	14.38	3.83	161.02	
13:09:29	14.39	4.30	19.34	14.38	3.82	168.57	
13:09:49	14.37	4.29	18.06	14.37	3.83	178.29	
13:10:09	14.23	4.33	16.39	14.38	3.81	185.76	
13:10:29	14.22	4.35	14.99	14.39	3.77	217.20	
13:10:49	14.23	4.36	14.46	14.40	3.76	222.57	
13:11:09	14.15	4.36	14.28	14.36	3.81	199.13	
13:11:29	13.91	4.35	11.89	14.32	3.88	177.25	
13:11:49	13.92	4.35	12.54	14.32	3.91	147.70	
13:12:09	14.08	4.39	13.27	14.33	3.90	150.00	
13:12:29	13.90	4.40	12.56	14.36	3.83	183.92	
13:12:49	13.79	4.39	11.60	14.40	3.76	219.76	
13:13:09	13.81	4.37	11.37	14.44	3.70	315.75	
13:13:29	13.81	4.34	11.60	14.51	3.57	488.37	
13:13:49	13.98	4.34	12.85	14.60	3.48	563.18	
13:14:09	14.62	4.31	18.53	14.54	3.42	647.27	
13:14:29	14.64	4.33	18.20	14.58	3.37	649.02	
13:14:49	15.13	4.34	22.45	14.71	3.27	719.15	
average	17.06	4.40	39.08	14.39	3.76	279.75	Test 7
minimum	13.79	4.13	11.37	14.25	3.27	102.51	
maximum	18.56	4.59	58.33	14.71	4.00	719.15	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:00:09	18.75	4.06	68.00	14.21	4.04	55.02	Test 8
14:00:29	18.74	4.08	66.41	14.23	4.02	51.82	
14:00:49	18.72	4.08	62.85	14.22	4.04	50.77	
14:01:09	18.74	4.08	59.25	14.17	4.05	60.39	
14:01:29	18.74	4.07	60.12	14.16	4.07	60.95	
14:01:49	18.76	4.07	60.14	14.14	4.12	52.78	
14:02:09	18.75	4.07	62.44	14.13	4.15	48.99	
14:02:29	18.77	4.06	64.42	14.15	4.11	50.12	
14:02:49	18.79	4.03	64.10	14.13	4.16	47.58	
14:03:09	18.84	3.97	62.63	14.12	4.18	46.74	
14:03:29	18.87	3.94	61.79	14.14	4.17	48.32	
14:03:49	18.88	3.92	64.09	14.14	4.14	57.67	
14:04:09	18.88	3.92	64.46	14.16	4.09	73.42	
14:04:29		3.94	62.05	14.18	4.04	83.31	
14:04:49	18.87	3.97	61.03	14.21	4.04	74.65	
14:05:09	18.79	4.00	61.65	14.21	4.03	64.54	
14:05:29	18.80	4.01	60.59	14.19	4.07	54.77	
14:05:49	18.78	4.02	59.88	14.15	4.14	46.49	
14:06:09	18.77	4.02	58.87	14.13	4.18	39.96	
14:06:29	18.76	4.06	56.14	14.17	4.14	34.20	
14:06:49	18.75	4.06	54.47	14.16	4.13	35.84	
14:07:09	18.71	4.12	53.19	14.17	4.09	41.40	
14:07:29	18.74	4.09	52.49	14.21	4.04	52.51	
14:07:49	18.75	4.08	53.39	14.24	4.00	52.31	
14:08:09	18.74	4.11	54.27	14.28	3.96	49.66	
14:08:29	18.74	4.10	55.08	14.27	3.99	47.54	
14:08:49	18.74	4.07	55.56	14.22	4.04	50.09	
14:09:09	18.77	4.05	55.32	14.15	4.13	55.90	
14:09:29	18.80	4.01	57.13	14.10	4.17	60.07	
14:09:49	18.81	4.01	62.24	14.06	4.18	62.80	
14:10:09	18.76	4.04	66.04	14.07	4.14	66.80	
14:10:29	18.75	4.03	66.30	14.10	4.12	68.67	
14:10:49	18.74	4.04	64.63	14.17	4.04	78.65	
14:11:09	18.75	4.03	63.68	14.24	3.96	105.01	
14:11:29	18.74	4.09	64.81	14.28	3.95	126.16	
14:11:49	18.72	4.11	65.98	14.22	4.01	123.85	
14:12:09	18.67	4.18	62.70	14.20	4.07	113.35	
14:12:29	18.65	4.21	60.59	14.16	4.08	124.22	
14:12:49	18.64	4.24	58.65	14.15	4.09	130.97	
14:13:09	18.61	4.25	58.60	14.15	4.07	127.27	
14:13:29	18.57	4.29	59.52	14.18	4.04	122.20	
14:13:49	18.56	4.29	61.38	14.19	4.03	126.90	
14:14:09	18.55	4.30	61.56	14.21	4.00	131.90	
14:14:29	18.55	4.29	60.63	14.22	3.99	141.85	
14:14:49	18.60	4.26	61.33	14.22	3.99	141.28	
14:15:09	18.65	4.21	61.54	14.26	3.93	182.15	
14:15:29	18.68	4.14	58.52	14.24	3.92	187.09	
14:15:49	18.71	4.13	58.89	14.24	3.93	177.27	
14:16:09	18.70	4.14	59.33	14.23	3.96	153.54	
14:16:29	18.69	4.13	60.70	14.23	3.98	120.73	
14:16:49	18.72	4.14	59.30	14.19	4.02	95.81	
14:17:09	18.69	4.14	61.06	14.17	4.06	80.60	
14:17:29	18.69	4.17	60.09	14.18	4.08	70.44	
14:17:49	18.69	4.15	60.00	14.12	4.12	76.22	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:18:09	18.71	4.13	61.79	14.08	4.16	71.96	
14:18:29	18.72	4.17	60.93	14.11	4.12	62.29	
14:18:49	18.71	4.17	59.42	14.10	4.16	50.50	
14:19:09	18.71	4.17	57.75	14.04	4.26	44.27	
14:19:29	18.69	4.20	55.19	13.99	4.33	40.54	
14:19:49	18.65	4.24	55.32	13.98	4.30	40.15	
14:20:09	18.63	4.27	55.39	14.05	4.24	45.26	
14:20:29	18.66	4.25	56.44	14.06	4.23	54.85	
14:20:49	18.70	4.19	60.03	14.02	4.27	59.88	
14:21:09	18.71	4.18	62.83	14.08	4.17	87.33	
14:21:29	18.67	4.20	61.69	14.15	4.06	107.64	
14:21:49	18.68	4.20	58.37	14.13	4.06	93.95	
14:22:09	18.67	4.21	56.95	14.09	4.11	76.73	
14:22:29	18.65	4.24	57.95	14.05	4.16	71.53	
14:22:49	18.66	4.21	59.18	14.04	4.20	61.56	
14:23:09	18.74	4.11	61.85	14.04	4.23	56.70	
14:23:29	18.80	4.05	62.95	13.99	4.28	55.69	
14:23:49	18.84	3.98	65.73	13.96	4.31	54.63	
14:24:09	18.89	3.92	70.17	13.94	4.36	60.01	
14:24:29	18.94	3.88	69.49	13.96	4.34	61.81	
14:24:49	18.92	3.90	69.53	13.98	4.29	61.32	
14:25:09	18.92	3.91	68.31	14.04	4.25	63.12	
14:25:29	18.89	3.96	65.15	14.00	4.24	83.99	
14:25:49	18.83	4.02	62.06	14.06	4.20	102.64	
14:26:09	18.82	4.05	61.20	14.06	4.18	99.35	
14:26:29	18.83	4.05	65.55	14.06	4.19	92.82	
14:26:49	18.84	4.03	66.54	14.07	4.16	86.31	
14:27:09	18.84	4.04	65.42	14.08	4.14	76.77	
14:27:29	18.83	4.04	62.66	14.06	4.19	70.71	
14:27:49	18.79	4.03	63.03	14.02	4.20	62.14	
14:28:09	18.78	4.05	63.38	14.07	4.19	52.33	
14:28:29	18.74	4.10	63.27	14.15	4.10	51.71	
14:28:49	18.73	4.14	63.40	14.18	4.04	62.74	
14:29:09	18.72	4.16	65.29	14.17	4.07	65.83	
14:29:29	18.72	4.17	66.54	14.15	4.08	69.58	
14:29:49	18.70	4.16	64.14	14.14	4.09	64.46	
average	18.74	4.10	61.28	14.13	4.11	76.74	Test 8
minimum	18.55	3.88	52.49	13.94	3.92	34.20	
maximum	18.94	4.30	70.17	14.28	4.36	187.09	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:15:09	18.75	4.10	64.74	14.16	4.08	72.97	Test 9
15:15:29	18.81	4.04	65.86	14.20	3.99	73.40	
15:15:49	18.85	3.98	65.75	14.22	3.97	73.02	
15:16:09	18.86	3.96	65.77	14.19	4.01	69.93	
15:16:29	18.89	3.96	64.59	14.18	4.01	88.63	
15:16:49	18.87	3.98	65.17	14.22	3.98	98.02	
15:17:09	18.84	4.03	64.51	14.24	3.95	101.71	
15:17:29	18.82	4.05	63.70	14.22	3.96	95.91	
15:17:49	18.84	4.04	64.88	14.20	4.00	82.60	
15:18:09	18.82	4.03	65.27	14.19	4.04	69.46	
15:18:29	18.82	4.05	66.29	14.15	4.13	56.57	
15:18:49	18.80	4.05	65.43	14.07	4.21	50.86	
15:19:09	18.80	4.05	63.03	14.05	4.23	48.57	
15:19:29	18.77	4.09	62.15	14.03	4.24	47.22	
15:19:49	18.81	4.07	68.78	13.99	4.30	48.43	
15:20:09	18.88	3.97	73.87	13.99	4.32	49.24	
15:20:29	18.90	3.97	77.40	13.99	4.31	55.17	
15:20:49	18.90	4.00	76.74	14.00	4.26	64.01	
15:21:09	18.90	4.04	76.93	14.00	4.25	65.06	
15:21:29	18.91	4.11	77.08	14.05	4.19	61.38	
15:21:49				14.14	4.12	54.72	
15:22:09				14.17	4.06	62.36	
15:22:29				14.16	4.05	75.90	
15:22:49				14.14	4.08	75.05	
15:23:09				14.15	4.08	68.52	
15:23:29				14.17	4.08	63.83	
15:23:49				14.17	4.06	71.04	
15:24:09				14.16	4.07	71.36	
15:24:29				14.22	4.01	66.43	
15:24:49				14.24	3.99	60.05	
15:25:09				14.26	3.96	57.23	
15:25:29				14.23	3.99	50.01	
15:25:49				14.18	4.08	44.29	
15:26:09				14.17	4.08	47.56	
15:26:29				14.26	3.97	49.65	
15:26:49				14.34	3.87	54.77	
15:27:09				14.36	3.82	60.74	
15:27:29				14.34	3.82	64.85	
15:27:49				14.34	3.81	69.11	
15:28:09				14.38	3.77	75.55	
15:28:29				14.40	3.74	77.91	
15:28:49				14.36	3.80	78.18	
15:29:09				14.29	3.88	81.20	
15:29:29	14.23	4.07	18.36	14.23	3.98	73.46	
15:29:49	14.25	4.06	15.36	14.16	4.07	66.03	
15:30:09	14.26	4.06	17.04	14.13	4.12	63.89	
15:30:29	14.22	4.06	23.97	14.13	4.12	60.43	
15:30:49	14.22	4.05	25.53	14.07	4.19	58.40	
15:31:09	14.25	4.04	25.99	14.00	4.26	58.69	
15:31:29	14.26	4.02	26.04	13.95	4.30	59.03	
15:31:49	14.28	4.01	22.03	13.99	4.31	54.86	
15:32:09	14.28	4.02	18.48	13.98	4.32	48.19	
15:32:29	14.29	4.01	15.19	13.97	4.32	47.34	
15:32:49	14.28	4.03	12.12	13.95	4.31	50.53	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
15:33:09	14.25	4.07	10.97	13.99	4.29	47.29
15:33:29	14.21	4.10	11.41	14.09	4.20	40.25
15:33:49	14.23	4.08	11.86	14.15	4.16	35.29
15:34:09	14.21	4.07	15.51	14.06	4.23	34.46
15:34:29	14.26	4.02	21.46	14.02	4.28	34.79
15:34:49	14.27	4.00	26.19	14.03	4.27	33.98
15:35:09	14.28	3.98	29.29	14.01	4.30	30.30
15:35:29	14.30	3.94	31.67	13.98	4.33	31.26
15:35:49	14.31	3.92	33.90	13.98	4.33	35.08
15:36:09	14.31	3.90	38.65	13.98	4.26	51.28
15:36:29	14.32	3.93	39.97	14.00	4.26	51.87
15:36:49	14.32	3.94	40.38	14.03	4.26	48.74
15:37:09	14.29	3.95	36.53	14.00	4.28	49.99
15:37:29	14.33	3.91	40.34	14.01	4.25	58.04
15:37:49	14.32	3.91	39.34	14.00	4.22	64.48
15:38:09	14.38	3.83	42.02	13.99	4.23	79.92
15:38:29	14.43	3.79	41.59	13.99	4.23	94.47
15:38:49	14.41	3.81	36.60	13.98	4.23	91.18
15:39:09	14.38	3.87	30.26	13.97	4.25	79.99
15:39:29	14.38	3.86	27.56	14.05	4.17	77.40
15:39:49	14.37	3.90	25.90	14.07	4.11	71.87
15:40:09	14.37	3.91	27.78	14.08	4.12	65.20
15:40:29	14.35	3.92	28.05	14.09	4.19	56.14
15:40:49	14.35	3.93	27.62	14.09	4.19	49.43
15:41:09	14.36	3.92	26.36	14.05	4.22	46.89
15:41:29	14.40	3.86	23.79	14.03	4.22	47.35
15:41:49	14.41	3.85	20.91	13.99	4.28	42.83
15:42:09	14.40	3.90	22.21	14.01	4.32	39.24
15:42:29	14.40	3.89	22.86	14.00	4.34	34.76
15:42:49	14.38	3.91	20.97	13.98	4.35	30.15
15:43:09	14.37	3.93	17.64	13.95	4.35	26.25
15:43:29	14.37	3.93	17.32	14.00	4.33	27.11
15:43:49	14.34	3.99	16.30	13.99	4.33	26.34
15:44:09	14.29	4.05	15.22	14.00	4.30	23.37
15:44:29	14.28	4.07	14.72	14.03	4.27	21.06
15:44:49	14.30	4.06	14.87	14.05	4.25	21.84
15:45:09	14.31	4.04	15.83	14.07	4.25	25.56
15:45:29	14.31	4.03	16.67	14.05	4.24	29.31
15:45:49	14.34	4.02	16.37	14.06	4.24	31.36
15:46:09	14.32	4.04	15.06	14.07	4.22	41.61
15:46:29	14.30	4.03	14.29	14.08	4.19	47.61
15:46:49	14.32	4.00	13.89	14.13	4.13	54.36
15:47:09	14.32	4.02	14.09	14.12	4.13	49.22
15:47:29	14.35	3.96	18.93	14.06	4.20	45.25
15:47:49	14.37	3.94	21.79	13.98	4.29	51.48
15:48:09	14.39	3.91	21.80	13.95	4.31	51.73
15:48:29	14.38	3.92	20.04	14.02	4.25	54.74
15:48:49	14.40	3.90	16.88	14.06	4.17	62.36
15:49:09	14.42	3.88	16.09	14.07	4.13	67.32
15:49:29	14.42	3.88	18.49	14.10	4.08	79.73
15:49:49	14.39	3.91	21.46	14.12	4.07	95.63
15:50:09	14.38	3.94	21.59	14.10	4.11	108.54
15:50:29	14.36	3.95	19.67	14.06	4.15	110.61
15:50:49	14.31	3.98	21.72	14.00	4.19	93.59

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:51:09	14.29	4.00	21.96	13.99	4.21	84.49	
15:51:29	14.30	4.01	18.56	14.01	4.19	80.39	
15:51:49	14.31	4.01	15.23	13.99	4.22	85.87	
15:52:09	14.30	4.02	13.47	13.94	4.28	81.33	
15:52:29	14.32	4.00	11.55	13.98	4.24	73.16	
15:52:49	14.33	4.00	14.08	13.99	4.22	61.82	
15:53:09	14.32	4.00	14.18	14.03	4.19	59.10	
15:53:29	14.34	3.97	15.73	14.05	4.19	57.52	
15:53:49	14.31	3.99	18.50	14.06	4.19	54.59	
15:54:09	14.34	3.94	25.49	14.04	4.19	47.39	
15:54:29	14.32	3.94	32.74	14.06	4.19	44.47	
15:54:49	14.34	3.92	33.05	14.06	4.19	50.34	
15:55:09	14.38	3.87	29.40	14.03	4.24	55.18	
15:55:29	14.37	3.90	25.55	13.96	4.31	55.92	
15:55:49	14.36	3.93	20.94	13.95	4.34	55.85	
15:56:09	14.35	3.96	17.37	13.92	4.30	62.03	
15:56:29	14.33	4.00	14.60	13.93	4.34	66.02	
15:56:49	14.36	3.98	13.62	13.87	4.38	65.91	
15:57:09	14.33	3.93	17.25	13.85	4.42	63.40	
15:57:29	14.16	3.88	17.30	13.83	4.43	58.71	
15:57:49	14.14	3.87	17.16	13.84	4.43	52.24	
15:58:09	14.11	3.94	18.55	13.87	4.41	51.94	
15:58:29	14.25	4.00	18.05	13.88	4.39	57.06	
15:58:49	14.21	4.06	15.28	13.91	4.39	57.39	
15:59:09	14.17	4.07	21.15	13.89	4.36	65.90	
15:59:29	14.18	4.06	28.56	13.86	4.33	83.20	
15:59:49	14.22	4.01	31.03	13.92	4.28	84.50	
average	15.12	3.98	30.28	14.07	4.18	59.33	Test 9
minimum	14.11	3.79	10.97	13.83	3.74	21.06	
maximum	18.91	4.11	77.40	14.40	4.43	110.61	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:15:19	13.85	4.46	18.34	14.17	4.02	41.52	Test 10
10:15:39	13.86	4.45	19.06	14.19	4.02	39.60	
10:15:59	13.86	4.44	19.89	14.17	4.01	36.90	
10:16:19	13.89	4.40	21.79	14.19	3.97	39.79	
10:16:39	13.93	4.39	25.77	14.22	3.94	39.44	
10:16:59	13.92	4.37	30.36	14.26	3.94	35.03	
10:17:19	13.95	4.34	35.15	14.20	4.00	29.10	
10:17:39	13.96	4.32	37.46	14.20	4.01	31.61	
10:17:59	14.00	4.29	38.61	14.16	4.01	30.73	
10:18:19	14.00	4.28	37.36	14.15	4.04	26.96	
10:18:39	14.00	4.29	35.89	14.12	4.08	26.34	
10:18:59	13.99	4.30	33.63	14.12	4.08	29.16	
10:19:19	13.96	4.33	32.63	14.18	4.05	35.44	
10:19:39	13.94	4.37	32.41	14.15	4.06	39.63	
10:19:59	13.92	4.40	32.36	14.14	4.08	36.77	
10:20:19	13.91	4.42	30.34	14.09	4.12	31.60	
10:20:39	13.92	4.41	28.80	14.10	4.10	30.31	
10:20:59	13.91	4.40	28.86	14.11	4.06	41.73	
10:21:19	13.92	4.40	29.67	14.10	4.07	52.28	
10:21:39	13.92	4.40	30.02	14.12	4.07	48.78	
10:21:59	13.91	4.41	30.06	14.12	4.08	42.96	
10:22:19	13.90	4.43	30.28	14.13	4.09	41.31	
10:22:39	13.88	4.43	28.79	14.11	4.10	44.97	
10:22:59	13.88	4.44	26.93	14.08	4.11	45.52	
10:23:19	13.87	4.45	24.66	14.09	4.06	41.72	
10:23:39	13.84	4.46	21.92	14.15	3.99	44.33	
10:23:59	13.87	4.44	19.85	14.21	3.94	45.13	
10:24:19	13.87	4.42	18.09	14.24	3.90	45.86	
10:24:39	13.89	4.40	16.93	14.26	3.87	51.00	
10:24:59	13.90	4.39	14.99	14.26	3.86	51.63	
10:25:19	13.90	4.39	13.33	14.28	3.82	53.98	
10:25:39	13.92	4.38	12.46	14.29	3.82	57.33	
10:25:59	13.90	4.38	12.16	14.29	3.83	61.04	
10:26:19	13.92	4.37	11.44	14.29	3.77	91.46	
10:26:39	13.91	4.37	11.50	14.36	3.76	109.49	
10:26:59	13.92	4.38	11.51	14.30	3.82	106.12	
10:27:19	13.91	4.39	11.08	14.25	3.88	108.08	
10:27:39	13.91	4.37	10.49	14.23	3.89	119.31	
10:27:59	13.92	4.37	10.53	14.24	3.87	127.79	
10:28:19	13.93	4.36	10.10	14.28	3.84	130.25	
10:28:39	13.95	4.33	9.86	14.26	3.85	124.35	
10:28:59	13.96	4.30	9.69	14.26	3.84	119.83	
10:29:19	14.00	4.27	9.33	14.24	3.87	106.79	
10:29:39	14.02	4.24	9.60	14.21	3.93	87.70	
10:29:59	14.04	4.22	10.76	14.17	3.95	78.95	
10:30:19	14.04	4.22	12.24	14.18	3.94	80.09	
10:30:39	14.04	4.23	13.86	14.21	3.93	78.31	
10:30:59	14.02	4.26	14.32	14.19	3.93	73.58	
10:31:19	14.00	4.29	13.96	14.19	3.95	67.40	
10:31:39	13.96	4.32	12.98	14.19	3.93	63.22	
10:31:59	13.94	4.35	12.81	14.22	3.90	59.28	
10:32:19	13.92	4.37	12.35	14.25	3.91	51.16	
10:32:39	13.91	4.39	12.82	14.25	3.94	43.37	
10:32:59	13.88	4.41	12.98	14.21	4.01	37.58	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:33:19	13.89	4.42	13.04	14.15	4.08	37.05	
10:33:39	13.87	4.43	12.33	14.13	4.09	35.55	
10:33:59	13.86	4.44	11.36	14.12	4.07	32.90	
10:34:19	13.84	4.45	10.41	14.14	4.07	32.43	
10:34:39	13.84	4.46	10.04	14.14	4.07	32.47	
10:34:59	13.82	4.48	9.00	14.15	4.06	31.08	
10:35:19	13.83	4.48	8.59	14.14	4.05	26.92	
10:35:39	13.83	4.47	7.36	14.15	4.04	25.12	
10:35:59	13.83	4.47	6.67	14.16	4.02	25.04	
10:36:19	13.80	4.47	5.66	14.16	4.05	23.75	
10:36:39	13.81	4.46	6.32	14.14	4.06	24.37	
10:36:59	13.81	4.48	5.23	14.15	4.06	30.09	
10:37:19	13.80	4.48	5.21	14.14	4.08	31.15	
10:37:39	13.79	4.50	4.82	14.13	4.07	27.16	
10:37:59	13.80	4.50	5.24	14.15	4.06	25.96	
10:38:19	13.80	4.51	5.04	14.15	4.05	29.28	
10:38:39	13.80	4.50	4.79	14.15	4.01	32.15	
10:38:59	13.80	4.50	4.51	14.19	3.98	32.22	
10:39:19	13.81	4.49	4.78	14.21	3.94	30.77	
10:39:39	13.81	4.49	4.50	14.26	3.89	32.23	
10:39:59	13.82	4.46	5.00	14.31	3.83	32.66	
10:40:19	13.85	4.42	5.21	14.31	3.81	39.43	
10:40:39	13.88	4.40	5.53	14.32	3.80	55.45	
10:40:59	13.92	4.36	6.65	14.31	3.78	65.31	
10:41:19	13.93	4.33	6.87	14.34	3.74	62.26	
10:41:39	13.97	4.29	8.50	14.36	3.69	59.30	
10:41:59	14.02	4.25	9.79	14.42	3.65	58.82	
10:42:19	14.05	4.20	12.61	14.41	3.64	65.13	
10:42:39	14.06	4.18	16.02	14.41	3.64	76.16	
10:42:59	14.08	4.16	19.04	14.39	3.66	74.05	
10:43:19	14.09	4.14	19.78	14.38	3.71	64.52	
10:43:39	14.10	4.14	21.29	14.35	3.71	56.96	
10:43:59	14.11	4.13	22.24	14.37	3.70	55.30	
10:44:19	14.10	4.11	22.89	14.42	3.63	54.46	
10:44:39	14.13	4.10	22.94	14.47	3.59	57.19	
10:44:59	14.13	4.10	23.14	14.48	3.60	55.89	
average	13.92	4.37	16.51	14.22	3.93	52.71	Test 10
minimum	13.79	4.10	4.50	14.08	3.59	23.75	
maximum	14.13	4.51	38.61	14.48	4.12	130.25	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
11:30:19	14.25	3.88	49.15	13.87	4.35	39.17	Test 11
11:30:39	14.24	3.89	47.42	13.89	4.30	42.06	
11:30:59	14.24	3.90	47.54	13.90	4.31	49.84	
11:31:19	14.26	3.91	47.61	13.82	4.35	48.37	
11:31:39	14.24	3.90	48.75	13.84	4.35	48.05	
11:31:59	14.25	3.89	50.39	13.83	4.36	47.00	
11:32:19	14.24	3.89	51.53	13.83	4.38	43.97	
11:32:39	14.23	3.88	51.87	13.86	4.36	46.03	
11:32:59	14.25	3.87	52.20	13.88	4.30	52.29	
11:33:19	14.27	3.87	53.45	13.86	4.28	74.63	
11:33:39	14.27	3.86	54.18	13.85	4.28	84.59	
11:33:59	14.27	3.85	53.38	13.84	4.31	80.00	
11:34:19	14.27	3.83	54.74	13.83	4.35	72.65	
11:34:39	14.28	3.82	57.48	13.83	4.36	65.58	
11:34:59	14.30	3.79	62.49	13.83	4.36	60.87	
11:35:19	14.30	3.78	67.10	13.83	4.32	58.12	
11:35:39	14.28	3.77	70.22	13.86	4.30	52.80	
11:35:59	14.29	3.78	70.41	13.88	4.31	49.86	
11:36:19	14.30	3.76	69.50	13.87	4.32	51.09	
11:36:39	14.31	3.75	69.60	13.89	4.27	64.46	
11:36:59	14.31	3.76	69.03	13.89	4.23	76.65	
11:37:19	14.30	3.76	66.13	13.91	4.21	89.06	
11:37:39	14.29	3.78	63.67	13.91	4.22	100.79	
11:37:59	14.29	3.79	59.51	13.96	4.20	111.75	
11:38:19	14.30	3.80	56.72	13.93	4.21	108.52	
11:38:39	14.29	3.79	55.16	13.91	4.21	100.64	
11:38:59	14.29	3.80	57.45	13.86	4.27	91.23	
11:39:19	14.29	3.80	59.95	13.83	4.32	81.55	
11:39:39	14.29	3.79	63.68	13.84	4.37	73.09	
11:39:59	14.29	3.78	67.60	13.83	4.36	70.21	
11:40:19	14.29	3.78	69.16	13.86	4.30	74.37	
11:40:39	14.30	3.77	69.00	13.83	4.32	73.71	
11:40:59	14.29	3.78	68.29	13.86	4.32	72.76	
11:41:19	14.29	3.79	67.36	13.86	4.31	70.73	
11:41:39	14.29	3.79	65.34	13.90	4.31	64.84	
11:41:59	14.28	3.81	64.92	13.86	4.31	59.44	
11:42:19	14.27	3.81	62.13	13.90	4.27	60.35	
11:42:39	14.28	3.83	61.56	13.91	4.27	61.71	
11:42:59	14.27	3.85	60.50	13.90	4.28	66.44	
11:43:19	14.27	3.87	57.96	13.86	4.34	60.57	
11:43:39	14.25	3.88	54.93	13.85	4.36	54.60	
11:43:59	14.23	3.90	53.21	13.90	4.28	52.36	
11:44:19	14.24	3.89	51.67	13.94	4.27	45.63	
11:44:39	14.24	3.91	52.90	13.97	4.23	38.81	
11:44:59	14.24	3.90	54.36	13.95	4.25	40.80	
11:45:19	14.24	3.90	55.65	13.92	4.32	43.98	
11:45:39	14.25	3.88	57.32	13.86	4.36	42.93	
11:45:59	14.25	3.89	57.48	13.88	4.32	47.66	
11:46:19	14.24	3.87	57.95	13.89	4.29	59.92	
11:46:39	14.25	3.87	58.85	13.90	4.27	73.57	
11:46:59	14.26	3.87	60.52	13.88	4.26	81.03	
11:47:19	14.24	3.85	64.33	13.88	4.28	78.73	
11:47:39	14.26	3.83	70.92	13.88	4.26	73.62	
11:47:59	14.29	3.82	77.73	13.89	4.28	70.30	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:48:19	14.30	3.81	83.43	13.84	4.31	71.00
11:48:39	14.30	3.78	87.99	13.84	4.34	68.16
11:48:59	14.33	3.76	94.92	13.82	4.35	67.50
11:49:19	14.36	3.74	98.91	13.83	4.32	68.78
11:49:39	14.39	3.74	101.16	13.87	4.28	63.65
11:49:59	14.37	3.75	99.80	13.85	4.35	53.55
11:50:19	14.35	3.76	97.85	13.82	4.41	48.63
11:50:39	14.34	3.76	94.73	13.80	4.46	43.30
11:50:59	14.32	3.79	90.68	13.77	4.50	39.35
11:51:19	14.29	3.82	86.43	13.73	4.51	35.44
11:51:39	14.28	3.83	81.80	13.80	4.46	35.82
11:51:59	14.29	3.83	78.24	13.79	4.46	37.40
11:52:19	14.27	3.84	76.50	13.77	4.47	34.59
11:52:39	14.26	3.85	75.40	13.77	4.47	29.42
11:52:59	14.25	3.86	73.55	13.78	4.49	26.53
11:53:19	14.25	3.88	70.80	13.78	4.52	24.67
11:53:39	14.24	3.89	66.01	13.73	4.54	23.77
11:53:59	14.23	3.90	65.40	13.71	4.55	25.85
11:54:19	14.21	3.91	65.16	13.73	4.51	27.95
11:54:39	14.21	3.92	62.98	13.79	4.46	38.14
11:54:59	14.20	3.93	61.17	13.80	4.44	42.82
11:55:19	14.19	3.94	59.39	13.75	4.52	36.07
11:55:39	14.18	3.95	57.03	13.71	4.59	31.42
11:55:59	14.18	3.97	56.61	13.67	4.62	27.06
11:56:19	14.17	3.98	55.07	13.68	4.59	24.26
11:56:39	14.16	3.99	54.96	13.67	4.60	23.36
11:56:59	14.16	3.99	53.22	13.62	4.62	28.76
11:57:19	14.17	3.98	51.85	13.67	4.60	31.35
11:57:39	14.19	3.96	50.68	13.70	4.52	33.95
11:57:59	14.23	3.93	50.66	13.73	4.53	34.22
11:58:19	14.24	3.90	51.01	13.68	4.56	34.18
11:58:39	14.25	3.87	51.81	13.69	4.56	38.25
11:58:59	14.27	3.84	52.81	13.74	4.54	38.90
11:59:19	14.30	3.82	55.08	13.74	4.52	35.11
11:59:39	14.31	3.80	59.87	13.77	4.47	31.49
11:59:59	14.30	3.79	64.73	13.76	4.47	27.72
12:00:19	14.29	3.79	66.06	13.74	4.51	26.52
12:00:39	14.30	3.78	67.58	13.78	4.50	27.99
12:00:59	14.31	3.77	69.21	13.78	4.48	28.62
12:01:19	14.32	3.76	70.39	13.75	4.52	28.84
12:01:39	14.33	3.76	71.25	13.73	4.54	28.08
12:01:59	14.32	3.76	73.29	13.71	4.54	26.62
12:02:19	14.33	3.75	74.52	13.78	4.50	27.63
12:02:39	14.34	3.75	73.80	13.74	4.54	26.49
12:02:59	14.35	3.73	69.79	13.68	4.61	23.70
12:03:19	14.35	3.72	65.72	13.65	4.61	24.01
12:03:39	14.37	3.71	64.42	13.65	4.59	23.64
12:03:59	14.37	3.70	63.92	13.69	4.61	23.01
12:04:19	14.37	3.71	64.57	13.67	4.60	21.53
12:04:39	14.35	3.73	63.17	13.63	4.65	23.25
12:04:59	14.32	3.75	62.24	13.62	4.67	25.92
12:05:19	14.32	3.77	60.19	13.60	4.65	27.44
12:05:39	14.30	3.81	58.57	13.66	4.63	29.43
12:05:59	14.29	3.82	59.34	13.65	4.60	29.03

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
12:06:19	14.26	3.83	60.61	13.68	4.55	29.89	
12:06:39	14.26	3.82	63.87	13.73	4.54	29.07	
12:06:59	14.28	3.82	67.69	13.69	4.57	27.29	
12:07:19	14.27	3.84	69.06	13.69	4.57	25.37	
12:07:39	14.24	3.85	69.89	13.72	4.53	27.65	
12:07:59	14.23	3.85	69.47	13.75	4.53	31.75	
12:08:19	14.25	3.85	69.64	13.71	4.55	35.29	
12:08:39	14.24	3.85	69.35	13.66	4.56	35.94	
12:08:59	14.24	3.85	69.57	13.69	4.56	46.33	
12:09:19	14.25	3.84	70.26	13.68	4.54	53.07	
12:09:39	14.27	3.83	69.34	13.66	4.57	50.92	
12:09:59	14.27	3.83	66.54	13.64	4.59	47.05	
12:10:19	14.26	3.85	63.83	13.66	4.57	42.64	
12:10:39	14.28	3.84	61.30	13.68	4.59	38.75	
12:10:59	14.28	3.83	60.51	13.64	4.60	32.84	
12:11:19	14.31	3.80	59.77	13.69	4.57	31.27	
12:11:39	14.32	3.79	59.41	13.70	4.55	30.36	
12:11:59	14.33	3.79	56.87	13.67	4.54	29.61	
12:12:19	14.33	3.77	53.83	13.71	4.55	34.35	
12:12:39	14.35	3.79	53.53	13.69	4.58	38.38	
12:12:59	14.34	3.78	50.59	13.61	4.63	37.52	
12:13:19	14.34	3.79	48.14	13.64	4.65	36.28	
12:13:39	14.33	3.80	47.12	13.63	4.61	36.19	
12:13:59	14.34	3.80	45.28	13.66	4.57	34.47	
12:14:19	14.33	3.81	44.51	13.69	4.58	33.71	
12:14:39	14.33	3.83	42.09	13.69	4.57	32.11	
12:14:59	14.30	3.85	40.77	13.68	4.58	30.47	
average	14.28	3.83	63.41	13.78	4.44	46.79	Test 11
minimum	14.16	3.70	40.77	13.60	4.20	21.53	
maximum	14.39	3.99	101.16	13.97	4.67	111.75	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:15:19	14.27	3.81	5.34	13.99	4.15	-0.20	Test 12
13:15:39	14.28	3.81	5.67	13.96	4.13	-0.75	
13:15:59	14.27	3.82	5.37	13.99	4.11	-0.73	
13:16:19	14.28	3.81	5.43	14.01	4.12	0.53	
13:16:39	14.27	3.82	5.40	13.97	4.17	0.22	
13:16:59	14.27	3.81	4.78	13.93	4.19	-0.45	
13:17:19	14.27	3.81	4.90	13.95	4.19	0.09	
13:17:39	14.30	3.80	5.10	13.92	4.19	-0.50	
13:17:59	14.29	3.81	4.89	13.92	4.18	-1.34	
13:18:19	14.27	3.82	4.87	14.00	4.14	-0.12	
13:18:39	14.28	3.83	5.53	14.01	4.12	-0.08	
13:18:59	14.27	3.83	5.47	14.00	4.12	-0.60	
13:19:19	14.28	3.82	4.92	14.02	4.11	-0.61	
13:19:39	14.27	3.82	5.56	14.00	4.12	-0.40	
13:19:59	14.29	3.83	5.81	14.00	4.11	-0.46	
13:20:19	14.27	3.82	5.81	14.05	4.07	-0.24	
13:20:39	14.28	3.81	5.48	14.05	4.03	-0.18	
13:20:59	14.30	3.79	6.07	14.09	4.02	0.20	
13:21:19	14.30	3.80	6.21	14.09	4.05	0.39	
13:21:39	14.31	3.80	6.25	14.05	4.05	-0.11	
13:21:59	14.30	3.80	6.29	14.08	4.03	-0.18	
13:22:19	14.31	3.79	5.66	14.10	4.02	0.09	
13:22:39	14.31	3.78	5.31	14.07	4.02	-0.20	
13:22:59	14.33	3.76	5.69	14.10	4.02	0.01	
13:23:19	14.35	3.74	6.49	14.06	4.03	-0.47	
13:23:39	14.34	3.74	6.45	14.06	4.05	-0.44	
13:23:59	14.34	3.75	6.37	14.05	4.06	-0.17	
13:24:19	14.35	3.74	6.83	14.07	4.05	-0.19	
13:24:39	14.36	3.74	6.59	14.05	4.06	-0.37	
13:24:59	14.34	3.74	6.77	14.01	4.11	-0.77	
13:25:19	14.33	3.75	6.10	14.00	4.12	-0.69	
13:25:39	14.31	3.77	6.05	14.01	4.13	-0.18	
13:25:59	14.32	3.78	6.03	13.99	4.15	-0.46	
13:26:19	14.30	3.80	5.16	13.93	4.18	-0.87	
13:26:39	14.30	3.80	5.47	13.92	4.16	-1.04	
13:26:59	14.28	3.81	5.24	13.98	4.14	-0.29	
13:27:19	14.27	3.83	5.17	14.01	4.12	-0.18	
13:27:39	14.26	3.85	5.19	14.01	4.09	-0.67	
13:27:59	14.23	3.89	4.73	14.01	4.10	-0.88	
13:28:19	14.19	3.93	4.68	13.99	4.13	-0.61	
13:28:39	14.17	3.95	4.29	14.01	4.15	0.10	
13:28:59	14.16	3.96	4.95	13.97	4.13	-0.27	
13:29:19	14.13	3.98	4.95	14.02	4.09	-0.29	
13:29:39	14.13	4.00	4.59	14.00	4.10	-0.73	
13:29:59	14.12	4.00	4.31	13.99	4.13	-0.46	
13:30:19	14.12	3.99	4.88	13.99	4.14	-0.45	
13:30:39	14.15	3.98	5.13	13.99	4.10	-0.59	
13:30:59	14.16	3.97	4.96	14.04	4.06	-0.85	
13:31:19	14.15	3.97	4.60	14.07	4.02	-0.63	
13:31:39	14.15	3.96	4.70	14.04	4.02	-0.70	
13:31:59	14.13	3.98	4.08	14.06	4.03	-0.03	
13:32:19	14.15	3.96	4.87	14.05	4.04	-0.39	
13:32:39	14.17	3.96	4.57	14.05	4.06	-0.35	
13:32:59	14.16	3.95	4.93	14.01	4.09	-0.54	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:33:19	14.17	3.94	4.61	13.97	4.14	-1.01
13:33:39	14.18	3.94	4.67	13.92	4.22	-0.61
13:33:59	14.18	3.94	4.74	13.87	4.28	-0.89
13:34:19	14.19	3.93	4.93	13.88	4.26	-0.66
13:34:39	14.21	3.90	4.89	13.90	4.22	-0.48
13:34:59	14.23	3.88	4.66	13.92	4.18	-1.11
13:35:19	14.23	3.86	4.80	13.97	4.13	-0.59
13:35:39	14.25	3.85	5.67	14.02	4.08	-0.41
13:35:59	14.27	3.83	5.30	14.06	4.04	-0.11
13:36:19	14.28	3.83	6.46	14.07	4.03	-0.08
13:36:39	14.29	3.82	6.77	14.03	4.03	-0.52
13:36:59	14.28	3.81	7.38	14.09	4.00	0.08
13:37:19	14.29	3.81	9.04	14.08	4.01	-0.07
13:37:39	14.32	3.79	9.44	14.09	4.00	0.31
13:37:59	14.32	3.79	9.15	14.07	4.04	-0.40
13:38:19	14.31	3.78	8.28	14.02	4.07	-0.58
13:38:39	14.32	3.76	8.43	14.02	4.07	0.08
13:38:59	14.35	3.77	8.65	14.02	4.08	0.08
13:39:19	14.35	3.76	7.26	14.01	4.10	-0.29
13:39:39	14.35	3.75	7.61	13.97	4.13	-0.33
13:39:59	14.34	3.75	7.08	13.95	4.17	-0.32
13:40:19	14.34	3.76	7.30	13.93	4.21	-0.20
13:40:39	14.35	3.77	7.22	13.89	4.19	-0.52
13:40:59	14.31	3.79	7.47	13.93	4.18	-0.60
13:41:19	14.30	3.79	7.20	13.97	4.17	-0.04
13:41:39	14.30	3.81	8.07	13.95	4.15	-0.40
13:41:59	14.30	3.82	8.33	13.98	4.10	-0.08
13:42:19	14.27	3.82	7.88	14.00	4.08	-0.32
13:42:39	14.27	3.81	7.88	14.04	4.06	-0.28
13:42:59	14.29	3.81	8.06	14.06	4.04	-0.35
13:43:19	14.30	3.81	7.72	14.05	4.01	-0.87
13:43:39	14.28	3.80	7.77	14.10	3.97	-0.48
13:43:59	14.29	3.81	6.92	14.09	3.97	-0.73
13:44:19	14.28	3.80	6.39	14.10	4.00	-0.53
13:44:39	14.30	3.82	6.07	14.04	4.04	-0.83
13:44:59	14.26	3.83	5.55	14.02	4.07	-0.98
13:45:19	14.26	3.83	5.26	14.05	4.08	-0.25
13:45:39	14.28	3.83	5.95	14.01	4.10	-1.11
13:45:59	14.27	3.84	5.21	13.98	4.13	-1.01
13:46:19	14.26	3.85	5.16	13.93	4.19	-0.89
13:46:39	14.25	3.86	5.19	13.93	4.20	-0.74
13:46:59	14.25	3.88	4.94	13.92	4.20	-0.36
13:47:19	14.23	3.89	5.22	13.88	4.22	-1.64
13:47:39	14.20	3.91	4.22	13.92	4.20	-0.31
13:47:59	14.20	3.93	5.05	13.92	4.21	-0.74
13:48:19	14.18	3.95	4.68	13.87	4.24	-1.22
13:48:39	14.15	3.97	4.61	13.89	4.25	-1.06
13:48:59	14.14	4.00	4.97	13.89	4.24	-1.15
13:49:19	14.12	4.02	4.87	13.91	4.23	-1.17
13:49:39	14.10	4.03	5.02	13.88	4.22	-1.34
13:49:59	14.10	4.04	4.89	13.90	4.23	-1.11
13:50:19	14.10	4.04	4.74	13.93	4.19	-0.77
13:50:39	14.10	4.03	5.69	13.94	4.14	-1.43
13:50:59	14.10	4.01	6.83	14.00	4.10	-1.41

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:51:19	14.14	3.98	8.69	14.01	4.09	-0.87	
13:51:39	14.17	3.95	9.12	14.00	4.11	-1.21	
13:51:59	14.19	3.93	8.27	13.93	4.19	-0.95	
13:52:19	14.19	3.91	7.61	13.89	4.22	-1.40	
13:52:39	14.21	3.89	7.94	13.92	4.22	-0.61	
13:52:59	14.23	3.88	7.71	13.92	4.18	-1.21	
13:53:19	14.23	3.87	7.13	13.95	4.15	-1.01	
13:53:39	14.24	3.85	7.90	13.97	4.12	-1.00	
13:53:59	14.24	3.84	7.90	14.00	4.12	-0.47	
13:54:19	14.27	3.84	8.49	13.96	4.12	-1.36	
13:54:39	14.27	3.82	7.90	13.99	4.10	-0.66	
13:54:59	14.29	3.79	8.50	13.99	4.12	-0.64	
13:55:19	14.31	3.79	8.51	13.97	4.14	-0.59	
13:55:39	14.32	3.76	9.32	13.98	4.15	-0.23	
13:55:59	14.32	3.76	9.13	13.94	4.16	-0.65	
13:56:19	14.34	3.75	9.56	13.96	4.13	-0.93	
13:56:39	14.33	3.75	9.10	13.98	4.13	-0.71	
13:56:59	14.34	3.74	8.94	13.97	4.15	-0.61	
13:57:19	14.33	3.76	8.77	13.96	4.17	-0.74	
13:57:39	14.35	3.77	9.58	13.92	4.19	-0.67	
13:57:59	14.34	3.77	9.84	13.89	4.20	-1.11	
13:58:19	14.33	3.78	9.20	13.90	4.22	-0.82	
13:58:39	14.32	3.79	8.98	13.90	4.22	-1.04	
13:58:59	14.30	3.79	8.29	13.89	4.25	-0.87	
13:59:19	14.31	3.80	8.82	13.86	4.27	-1.17	
13:59:39	14.29	3.81	7.95	13.86	4.29	-0.78	
13:59:59	14.28	3.83	7.83	13.83	4.30	-1.30	
average	14.26	3.85	6.40	13.98	4.12	-0.57	Test 12
minimum	14.10	3.74	4.08	13.83	3.97	-1.64	
maximum	14.36	4.04	9.84	14.10	4.30	0.53	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:30:19	13.99	4.23	10.22	14.19	3.79	94.71	Test 13
14:30:39	14.02	4.21	10.93	14.21	3.74	92.69	
14:30:59	14.00	4.21	10.46	14.25	3.73	78.22	
14:31:19	14.03	4.20	10.60	14.26	3.75	62.37	
14:31:39	14.03	4.20	10.84	14.25	3.80	47.33	
14:31:59	14.06	4.19	11.30	14.20	3.84	36.63	
14:32:19	14.07	4.18	11.79	14.19	3.86	31.96	
14:32:39	14.05	4.17	10.92	14.17	3.89	34.19	
14:32:59	14.03	4.18	10.80	14.17	3.88	35.22	
14:33:19	14.02	4.18	10.26	14.18	3.89	35.78	
14:33:39	14.04	4.18	10.03	14.18	3.89	36.65	
14:33:59	14.03	4.19	8.82	14.17	3.86	41.48	
14:34:19	14.03	4.18	9.30	14.23	3.80	38.58	
14:34:39	14.02	4.18	9.30	14.29	3.74	39.92	
14:34:59	14.02	4.18	9.04	14.31	3.70	44.79	
14:35:19	14.05	4.17	9.53	14.21	3.76	68.96	
14:35:39	14.04	4.18	8.97	14.17	3.80	75.10	
14:35:59	14.03	4.19	8.50	14.20	3.77	70.16	
14:36:19	14.02	4.21	8.48	14.23	3.76	60.71	
14:36:39	14.04	4.21	10.14	14.21	3.77	63.75	
14:36:59	14.06	4.18	11.70	14.21	3.76	63.98	
14:37:19	14.09	4.15	13.38	14.26	3.69	65.29	
14:37:39	14.10	4.13	14.95	14.36	3.62	63.98	
14:37:59	14.13	4.12	14.72	14.34	3.59	63.29	
14:38:19	14.14	4.10	14.35	14.40	3.51	69.96	
14:38:39	14.10	4.12	12.79	14.49	3.45	75.33	
14:38:59	14.13	4.12	12.52	14.50	3.43	70.26	
14:39:19	14.11	4.13	11.60	14.50	3.42	63.15	
14:39:39	14.10	4.14	10.34	14.49	3.44	61.01	
14:39:59	14.07	4.16	9.02	14.49	3.47	58.21	
14:40:19	14.08	4.16	9.42	14.46	3.50	50.58	
14:40:39	14.10	4.16	8.92	14.44	3.59	41.61	
14:40:59	14.10	4.12	9.12	14.34	3.66	34.00	
14:41:19	14.12	4.09	10.19	14.37	3.66	33.08	
14:41:39	14.14	4.07	10.87	14.40	3.59	50.75	
14:41:59	14.18	4.05	11.17	14.42	3.57	57.28	
14:42:19	14.16	4.06	10.52	14.38	3.58	56.52	
14:42:39	14.17	4.05	13.47	14.39	3.55	60.05	
14:42:59	14.16	4.06	15.10	14.43	3.53	59.69	
14:43:19	14.17	4.06	15.75	14.43	3.51	56.42	
14:43:39	14.15	4.09	14.09	14.45	3.50	52.96	
14:43:59	14.13	4.11	12.87	14.43	3.55	46.40	
14:44:19	14.11	4.13	11.96	14.43	3.55	56.29	
14:44:39	14.11	4.16	11.71	14.41	3.55	62.44	
14:44:59	14.10	4.18	10.63	14.38	3.55	59.51	
14:45:19	14.06	4.19	8.90	14.41	3.53	58.99	
14:45:39	14.04	4.22	8.23	14.44	3.49	69.32	
14:45:59	14.03	4.24	8.03	14.50	3.46	67.19	
14:46:19	14.04	4.27	8.14	14.48	3.46	55.87	
14:46:39	14.02	4.27	7.02	14.44	3.53	46.25	
14:46:59	14.01	4.28	6.28	14.44	3.55	46.18	
14:47:19	14.02	4.27	6.53	14.47	3.52	54.10	
14:47:39	14.05	4.24	6.82	14.43	3.50	60.99	
14:47:59	14.08	4.21	6.37	14.42	3.48	83.18	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:48:19	14.07	4.19	6.09	14.45	3.48	109.39	
14:48:39	14.12	4.16	7.58	14.44	3.48	129.63	
14:48:59	14.16	4.12	9.23	14.42	3.52	118.73	
14:49:19	14.19	4.09	11.67	14.38	3.56	100.83	
14:49:39	14.22	4.06	12.44	14.35	3.58	78.85	
14:49:59	14.24	4.04	12.63	14.36	3.60	70.08	
14:50:19	14.28	4.01	13.43	14.36	3.61	65.17	
14:50:39	14.30	4.00	14.43	14.31	3.64	69.19	
14:50:59	14.35	3.98	14.96	14.29	3.62	84.32	
14:51:19	14.34	3.96	15.13	14.37	3.58	81.35	
14:51:39	14.35	3.97	15.29	14.34	3.63	79.57	
14:51:59	14.37	3.99	14.46	14.32	3.65	70.69	
14:52:19	14.36	4.01	13.31	14.31	3.67	57.69	
14:52:39	14.35	4.01	13.05	14.33	3.63	50.79	
14:52:59	14.35	4.03	11.88	14.39	3.59	49.02	
14:53:19	14.37	4.05	11.56	14.38	3.63	50.08	
14:53:39	14.37	4.08	11.55	14.34	3.66	49.30	
14:53:59	14.38	4.10	10.31	14.29	3.71	45.07	
14:54:19	14.35	4.12	9.54	14.29	3.73	37.89	
14:54:39	14.37	4.13	9.18	14.27	3.79	28.94	
14:54:59	14.40	4.14	9.50	14.24	3.82	21.40	
14:55:19	14.45	4.15	9.95	14.21	3.83	21.37	
14:55:39	14.48	4.15	9.04	14.20	3.83	23.57	
14:55:59	14.50	4.16	9.10	14.25	3.80	21.42	
14:56:19	14.58	4.14	9.92	14.27	3.80	19.77	
14:56:39	14.65	4.14	10.28	14.29	3.79	24.19	
14:56:59	15.81	4.13	19.42	14.23	3.77	34.92	
14:57:19	19.80	4.10	47.69	14.28	3.73	40.59	
14:57:39	19.22	4.09	44.00	14.32	3.68	44.93	
14:57:59	18.82	4.08	42.26	14.34	3.67	39.97	
14:58:19	19.08	4.07	44.83	14.31	3.69	36.82	
14:58:39	19.70	4.09	49.76	14.30	3.68	37.70	
14:58:59	17.90	4.06	36.00	14.33	3.68	33.35	
14:59:19	17.24	4.05	31.97	14.35	3.67	37.28	
14:59:39	16.65	4.03	30.03	14.34	3.67	39.63	
14:59:59	15.85	4.02	25.93	14.33	3.67	33.87	
average	14.59	4.13	13.72	14.33	3.65	55.56	Test 13
minimum	13.99	3.96	6.09	14.17	3.42	19.77	
maximum	19.80	4.28	49.76	14.50	3.89	129.63	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
9:15:03	12.91	3.90	-12.66	14.15	4.23	0.08	Test 14
9:15:23	12.91	3.91	-12.86	14.17	4.20	0.76	
9:15:43	12.90	3.92	-12.87	14.20	4.16	4.27	
9:16:03	12.89	3.92	-12.90	14.20	4.14	3.84	
9:16:23	12.90	3.92	-13.32	14.21	4.12	2.75	
9:16:43	12.91	3.92	-12.47	14.24	4.09	1.11	
9:17:03	12.91	3.93	-12.10	14.29	4.04	0.59	
9:17:23	12.90	3.92	-12.50	14.30	4.01	-0.02	
9:17:43	12.91	3.93	-12.30	14.26	4.03	-0.87	
9:18:03	12.89	3.94	-12.56	14.29	4.03	-0.12	
9:18:23	12.88	3.95	-12.87	14.31	4.01	5.64	
9:18:43	12.88	3.94	-12.46	14.32	3.99	12.44	
9:19:03	12.88	3.94	-12.93	14.36	3.93	13.57	
9:19:23	12.90	3.91	-12.71	14.44	3.83	14.91	
9:19:43	12.91	3.90	-12.56	14.44	3.82	10.74	
9:20:03	12.92	3.90	-12.70	14.50	3.79	7.06	
9:20:23	12.92	3.90	-12.98	14.47	3.79	5.26	
9:20:43	12.91	3.93	-13.15	14.46	3.81	3.57	
9:21:03	12.90	3.95	-12.56	14.43	3.86	2.72	
9:21:23	12.90	3.97	-13.10	14.40	3.89	3.11	
9:21:43	12.87	3.99	-13.66	14.43	3.84	6.09	
9:22:03	12.87	4.00	-13.13	14.46	3.83	6.14	
9:22:23	12.85	4.01	-13.45	14.47	3.82	6.99	
9:22:43	12.86	4.02	-13.62	14.47	3.80	8.60	
9:23:03	12.87	4.00	-13.68	14.45	3.86	7.74	
9:23:23	12.86	4.00	-13.06	14.34	3.98	6.22	
9:23:43	12.87	4.00	-13.30	14.26	4.05	6.74	
9:24:03	12.87	3.99	-12.13	14.32	4.02	9.41	
9:24:23	12.88	4.01	-12.16	14.39	3.93	18.71	
9:24:43	12.88	4.02	-11.59	14.39	3.92	18.95	
9:25:03	12.86	4.02	-11.80	14.41	3.90	15.49	
9:25:23	12.86	4.03	-11.98	14.40	3.93	10.67	
9:25:43	12.86	4.03	-12.11	14.37	3.96	6.54	
9:26:03	12.87	4.03	-12.76	14.40	3.94	5.56	
9:26:23	12.86	4.01	-13.32	14.40	3.93	7.10	
9:26:43	12.89	4.00	-13.30	14.40	3.90	12.31	
9:27:03	12.89	4.00	-13.06	14.47	3.85	23.49	
9:27:23	12.89	4.00	-13.21	14.47	3.84	27.85	
9:27:43	12.90	3.99	-13.57	14.45	3.85	23.82	
9:28:03	12.91	3.99	-13.69	14.47	3.85	15.49	
9:28:23	12.89	3.99	-13.45	14.49	3.82	10.84	
9:28:43	12.90	4.00	-13.99	14.51	3.77	13.30	
9:29:03	12.91	4.00	-13 63	14.52	3.77	29.25	
9:29:23	12.91	3.99	-13.53	14.47	3.82	29.23	
9:29:43	12.90	4.01	-13.66	14.46	3.86	23.97	
9:30:03	12.88	4.03	-13.47	14.42	3.88	25.34	
9:30:23	12.84	4.05	-13.62	14.43	3.85	21.32	
9:30:43	12.84	4 05	-13.71	14.48	3.81	15.83	
9:31:03	12.83	4.05	-14.08	14.46	3.80	10.85	
9:31:23	12.83	4.06	-13.55	14.47	3.80	8.29	
9:31:43	12.83	4.04	-14.05	14.49	3.80	6.91	
9:32:03	12.85	4.03	-13.55	14.45	3.84	3.62	
9:32:23	12.84	4.03	-13.55	14.44	3.86	6.44	
9:32:43	12.82	4.03	-13.86	14.45	3.81	37.14	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
9:33:03	12.84	4.02	-13.86	14.51	3.74	45.36
9:33:23	12.82	4.02	-13.49	14.53	3.66	63.70
9:33:43	12.82	4.03	-12.71	14.57	3.59	71.51
9:34:03	12.82	4.04	-11.21	14.59	3.58	59.66
9:34:23	12.80	4.07	-11.01	14.63	3.61	49.02
9:34:43	12.77	4.09	-11.12	14.54	3.71	33.93
9:35:03	12.75	4.12	-10.99	14.50	3.80	22.32
9:35:23	12.73	4.11	-11.27	14.44	3.86	14.74
9:35:43	12.76	4.09	-11.28	14.39	3.92	9.82
9:36:03	12.76	4.09	-11.65	14.40	3.93	10.48
9:36:23	12.78	4.07	-11.80	14.39	3.94	10.61
9:36:43	12.80	4.03	-12.05	14.36	3.99	11.27
9:37:03	12.82	4.00	-12.44	14.36	3.97	18.83
9:37:23	12.86	3.97	-12.58	14.35	3.97	23.63
9:37:43	12.88	3.95	-13.12	14.34	3.99	26.90
9:38:03	12.87	3.95	-13.12	14.36	3.97	24.73
9:38:23	12.90	3.94	-13.29	14.32	4.00	15.32
9:38:43	12.89	3.93	-13.03	14.34	4.00	9.34
9:39:03	12.88	3.94	-13.61	14.38	3.91	9.00
9:39:23	12.89	3.94	-12.99	14.43	3.86	7.30
9:39:43	12.87	3.94	-13.15	14.45	3.86	7.68
9:40:03	12.88	3.93	-13.02	14.42	3.87	9.88
9:40:23	12.87	3.93	-13.49	14.43	3.87	9.15
9:40:43	12.88	3.93	-13.42	14.47	3.83	9.14
9:41:03	12.88	3.92	-13.70	14.44	3.85	8.43
9:41:23	12.90	3.91	-13.25	14.45	3.83	7.83
9:41:43	12.91	3.89	-14.04	14.43	3.88	4.96
9:42:03	12.92	3.89	-13.80	14.35	3.97	1.82
9:42:23	12.92	3.90	-13.70	14.32	4.01	2.18
9:42:43	12.90	3.91	-14.38	14.33	3.98	5.59
9:43:03	12.91	3.92	-14.07	14.36	3.94	5.92
9:43:23	12.90	3.92	-14.66	14.37	3.93	12.65
9:43:43	12.90	3.93	-14.67	14.39	3.91	14.71
9:44:03	12.89	3.94	-14.63	14.37	3.93	10.47
9:44:23	12.88	3.94	-14.74	14.36	3.96	9.78
9:44:43	12.88	3.95	-14.42	14.41	3.85	14.69
9:45:03	12.87	3.95	-14.75	14.48	3.77	20.76
9:45:23	12.87	3.95	-14.76	14.49	3.78	17.27
9:45:43	12.88	3.94	-14.55	14.44	3.83	10.54
9:46:03	12.86	3.94	-14.29	14.46	3.84	6.85
9:46:23	12.88	3.94	-14.35	14.42	3.85	5.15
9:46:43	12.89	3.93	-14.55	14.43	3.86	4.46
9:47:03	12.90	3.91	-14.41	14.43	3.85	4.25
9:47:23	12.90	3.91	-14.56	14.40	3.89	2.82
9:47:43	12.91	3.89	-14.19	14.40	3.89	2.92
9:48:03	12.94	3.88	-14.72	14.36	3.94	2.25
9:48:23	12.92	3.88	-13.73	14.30	4.03	1.58
9:48:43	12.85	3.86	-17.12	14.76	4.07	-29.76
9:49:03	12.94	3.85	-13.02	14.27	4.05	0.46
9:49:23	12.95	3.85	-13.33	14.27	4.06	1.98
9:49:43	12.95	3.85	-13.43	14.23	4.09	5.28
9:50:03	12.95	3.83	-14.33	14.25	4.11	5.90
9:50:23	12.95	3.81	-14.16	14.20	4.11	5.38
9:50:43	12.99	3.80	-14.14	14.25	4.09	7.88

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
9:51:03	12.98	3.79	-14.89	14.28	4.03	7.94	
9:51:23	12.99	3.78	-14.47	14.33	3.97	8.97	
9:51:43	12.99	3.78	-13.63	14.40	3.88	20.85	
9:52:03	13.00	3.78	-12.34	14.41	3.85	21.57	
9:52:23	13.01	3.79	-11.78	14.45	3.82	19.96	
9:52:43	12.99	3.81	-11.01	14.46	3.81	15.05	
9:53:03	12.98	3.82	-11.60	14.39	3.90	10.77	
9:53:23	12.99	3.81	-11.92	14.40	3.87	11.09	
9:53:43	13.00	3.79	-11.74	14.44	3.84	11.66	
9:54:03	13.01	3.77	-12.20	14.46	3.78	12.73	
9:54:23	13.04	3.76	-12.43	14.49	3.75	18.96	
9:54:43	13.05	3.74	-12.03	14.53	3.70	35.84	
9:55:03	13.05	3.72	-12.22	14.51	3.74	32.74	
9:55:23	13.06	3.71	-12.33	14.50	3.75	32.86	
9:55:43	13.08	3.71	-12.33	14.51	3.75	38.62	
9:56:03	13.05	3.72	-12.14	14.48	3.77	33.07	
9:56:23	13.06	3.71	-12.86	14.46	3.81	24.81	
9:56:43	13.08	3.72	-12.59	14.45	3.84	19.95	
9:57:03	13.05	3.72	-12.89	14.44	3.83	15.17	
9:57:23	13.07	3.73	-13.08	14.41	3.87	9.78	
9:57:43	13.05	3.73	-13.38	14.43	3.88	11.97	
9:58:03	13.04	3.74	-13.66	14.41	3.87	12.95	
9:58:23	13.05	3.75	-13.80	14.44	3.84	21.39	
9:58:43	13.02	3.77	-14.00	14.45	3.84	27.07	
9:59:03	13.00	3.79	-14.43	14.43	3.82	21.19	
9:59:23	13.00	3.80	-14.22	14.47	3.78	18.77	
9:59:43	12.98	3.82	-14.82	14.51	3.76	15.40	
average	12.91	3.92	-13.20	14.41	3.89	13.76	Test 14
minimum	12.73	3.71	-17.12	14.15	3.58	-29.76	
maximum	13.08	4.12	-10.99	14.76	4.23	71.51	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:30:03	14.46	3.87	7.15	14.63	3.53	79.75	Test 15
10:30:23	14.52	3.87	7.80	14.55	3.63	58.16	
10:30:43	14.85	3.88	10.59	14.55	3.68	43.73	
10:31:03	14.97	3.89	11.00	14.52	3.69	31.83	
10:31:23	14.97	3.90	11.75	14.56	3.67	24.57	
10:31:43	15.00	3.91	11.93	14.57	3.69	20.80	
10:32:03	15.06	3.92	12.38	14.54	3.70	16.41	
10:32:23	15.07	3.93	12.93	14.58	3.67	15.10	
10:32:43	15.11	3.93	13.35	14.58	3.64	16.78	
10:33:03	15.14	3.96	13.47	14.60	3.64	13.87	
10:33:23	15.36	3.97	15.64	14.61	3.64	11.70	
10:33:43	16.11	3.98	21.25	14.65	3.59	11.71	
10:34:03	16.69	3.99	25.89	14.64	3.60	9.91	
10:34:23	16.83	4.00	26.92	14.59	3.63	8.46	
10:34:43	16.62	4.00	25.82	14.60	3.61	23.96	
10:35:03	16.56	3.99	26.35	14.59	3.65	23.79	
10:35:23	16.79	3.98	28.72	14.56	3.68	20.09	
10:35:43	17.15	3.97	32.13	14.58	3.65	17.79	
10:36:03	17.09	3.98	31.83	14.59	3.62	15.36	
10:36:23	17.07	4.00	32.28	14.59	3.62	22.30	
10:36:43	17.69	4.02	36.06	14.62	3.58	38.23	
10:37:03	18.74	4.04	43.80	14.60	3.62	33.32	
10:37:23	19.12	4.04	46.99	14.54	3.71	25.42	
10:37:43	19.35	4.06	48.36	14.51	3.75	18.19	
10:38:03	19.52	4.09	49.52	14.48	3.77	14.03	
10:38:23	19.60	4.10	49.11	14.47	3.81	10.80	
10:38:43	19.61	4.08	49.80	14.46	3.78	9.58	
10:39:03	19.60	4.05	50.85	14.49	3.77	19.53	
10:39:23	19.61	4.02	51.30	14.48	3.75	19.66	
10:39:43	19.83	3.99	53.41	14.54	3.71	17.83	
10:40:03	20.03	3.96	54.96	14.56	3.69	27.08	
10:40:23	20.08	3.94	54.37	14.56	3.62	35.47	
10:40:43	20.26	3.94	56.19	14.58	3.61	38.86	
10:41:03	19.75	3.93	50.55	14.60	3.64	41.93	
10:41:23	19.38	3.91	46.85	14.55	3.65	47.35	
10:41:43	18.72	3.89	42.55	14.53	3.68	41.83	
10:42:03	19.46	3.88	47.13	14.54	3.70	36.05	
10:42:23	19.61	3.87	47.68	14.51	3.74	37.20	
10:42:43	19.83	3.87	48.98	14.46	3.78	61.06	
10:43:03	20.66	3.86	55.48	14.43	3.80	51.11	
10:43:23	21.06	3.87	57.52	14.50	3.76	34.13	
10:43:43	21.12	3.86	58.22	14.54	3.72	22.13	
10:44:03	20.55	3.85	54.06	14.53	3.73	19.04	
10:44:23	20.40	3.86	51.82	14.46	3.80	13.23	
10:44:43	20.33	3.86	51.39	14.46	3.84	8.07	
10:45:03	20.41	3.86	51.86	14.46	3.79	11.47	
10:45:23	20.48	3.87	53.04	14.48	3.77	12.05	
10:45:43	20.48	3.89	52.21	14.48	3.80	9.85	
10:46:03	20.44	3.90	51.81	14.46	3.81	15.55	
10:46:23	20.47	3.90	52.43	14.44	3.82	17.36	
10:46:43	20.47	3.88	52.84	14.46	3.84	15.21	
10:47:03	20.45	3.88	52.63	14.44	3.84	14.82	
10:47:23	20.42	3.87	52.70	14.43	3.84	15.47	
10:47:43	20.48	3.88	53.88	14.41	3.87	12.96	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:48:03	20.53	3.87	53.67	14.38	3.90	9.72	
10:48:23	20.48	3.87	52.51	14.44	3.85	9.19	
10:48:43	20.40	3.87	52.43	14.46	3.83	9.58	
10:49:03	20.40	3.89	52.37	14.41	3.86	6.83	
10:49:23	20.44	3.90	53.13	14.41	3.86	5.17	
10:49:43	20.42	3.91	52.67	14.45	3.84	5.90	
10:50:03	20.41	3.91	52.33	14.41	3.86	5.61	
10:50:23	20.42	3.94	53.83	14.40	3.88	4.87	
10:50:43	20.38	3.97	54.07	14.44	3.85	4.22	
10:51:03	20.39	3.99	53.21	14.45	3.81	3.13	
10:51:23	20.38	3.99	53.06	14.50	3.75	2.42	
10:51:43	20.34	3.99	52.41	14.52	3.73	0.97	
10:52:03	20.35	3.99	53.13	14.54	3.69	5.13	
10:52:23	20.37	4.00	52.47	14.57	3.69	8.78	
10:52:43	20.35	4.01	52.58	14.51	3.74	8.92	
10:53:03	20.34	4.01	52.70	14.49	3.74	9.56	
10:53:23	20.37	4.02	52.75	14.51	3.74	7.89	
10:53:43	20.37	4.03	52.45	14.47	3.80	4.95	
10:54:03	20.38	4.03	52.90	14.45	3.80	8.44	
10:54:23	20.40	4.03	53.60	14.50	3.72	17.90	
10:54:43	20.39	4.03	53.76	14.55	3.68	20.51	
10:55:03	20.39	4.01	53.02	14.53	3.72	15.24	
10:55:23	20.41	4.00	52.64	14.47	3.80	9.83	
10:55:43	20.41	3.99	52.85	14.40	3.90	6.34	
10:56:03	20.41	4.00	52.85	14.33	3.95	2.86	
10:56:23	20.43	3.99	52.40	14.38	3.91	4.29	
10:56:43	20.44	3.97	52.49	14.38	3.90	11.71	
10:57:03	20.46	3.95	52.07	14.37	3.89	14.13	
10:57:23	20.49	3.94	52.85	14.44	3.83	20.24	
10:57:43	20.50	3.92	52.27	14.45	3.79	33.38	
10:58:03	20.51	3.90	51.99	14.44	3.80	29.69	
10:58:23	20.50	3.88	52.36	14.48	3.77	30.18	
10:58:43	20.54	3.86	52.51	14.44	3.80	24.55	
10:59:03	20.55	3.84	52.79	14.42	3.84	19.30	
10:59:23	20.57	3.83	52.25	14.45	3.83	17.60	
10:59:43	20.57	3.82	52.09	14.52	3.72	21.32	
average	19.21	3.94	44.54	14.50	3.75	19.47	Test 15
minimum	14.46	3.82	7.15	14.33	3.53	0.97	
maximum	21.12	4.10	58.22	14.65	3.95	79.75	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
12:30:03	14.63	3.88	6.18	14.60	3.44	111.99	Test 16
12:30:23	14.63	3.86	6.02	14.61	3.42	149.39	
12:30:43	14.61	3.87	4.84	14.58	3.45	163.37	
12:31:03	14.63	3.85	4.81	14.51	3.51	166.89	
12:31:23	14.67	3.83	5.11	14.49	3.51	160.10	
12:31:43	14.69	3.82	5.85	14.55	3.47	154.53	
12:32:03	14.68	3.81	5.30	14.52	3.53	139.99	
12:32:23	14.68	3.79	4.42	14.45	3.62	124.60	
12:32:43	14.69	3.78	4.38	14.39	3.65	106.25	
12:33:03	14.72	3.77	6.20	14.38	3.67	81.30	
12:33:23	14.73	3.78	6.85	14.41	3.67	68.72	
12:33:43	14.70	3.80	6.33	14.40	3.68	61.75	
12:34:03	14.66	3.82	5.97	14.45	3.59	103.38	
12:34:23	14.63	3.86	6.34	14.51	3.49	148.40	
12:34:43	14.61	3.87	7.30	14.52	3.48	144.64	
12:35:03	14.62	3.87	6.85	14.52	3.52	122.85	
12:35:23	14.62	3.87	6.93	14.52	3.50	137.12	
12:35:43	14.62	3.88	7.18	14.50	3.50	155.58	
12:36:03	14.62	3.90	7.06	14.50	3.54	142.12	
12:36:23	14.61	3.89	6.93	14.49	3.59	109.81	
12:36:43	14.60	3.91	6.23	14.45	3.61	89.72	
12:37:03	14.56	3.95	5.99	14.40	3.65	76.89	
12:37:23	14.53	3.98	5.18	14.34	3.76	63.48	
12:37:43	14.51	4.04	5.38	14.28	3.85	53.97	
12:38:03	14.48	4.08	5.39	14.29	3.81	55.39	
12:38:23	14.45	4.09	5.29	14.33	3.75	58.77	
12:38:43	14.44	4.07	5.13	14.36	3.72	56.15	
12:39:03	14.45	4.07	5.11	14.35	3.74	57.47	
12:39:23	14.44	4.08	4.85	14.35	3.70	73.93	
12:39:43	14.46	4.06	5.53	14.35	3.69	77.30	
12:40:03	14.46	4.05	4.83	14.38	3.66	97.46	
12:40:23	14.47	4.04	4.80	14.44	3.62	120.09	
12:40:43	14.47	4.05	5.39	14.38	3.66	106.42	
12:41:03	14.49	4.05	4.80	14.34	3.68	90.08	
12:41:23	14.47	4.06	5.10	14.34	3.70	76.43	
12:41:43	14.47	4.05	4.83	14.39	3.65	80.59	
12:42:03	14.48	4.03	4.61	14.39	3.65	86.36	
12:42:23	14.48	4.02	4.65	14.41	3.62	93.02	
12:42:43	14.53	4.03	5.33	14.47	3.56	107.64	
12:43:03	14.51	4.03	5.10	14.48	3.57	117.82	
12:43:23	14.54	4.03	5.68	14.47	3.59	103.97	
12:43:43	14.52	4.03	4.91	14.46	3.59	95.86	
12:44:03	14.53	4.04	5.56	14.42	3.61	120.48	
12:44:23	14.55	4.05	5.42	14.44	3.56	183.23	
12:44:43	14.53	4.06	4.65	14.49	3.52	197.48	
12:45:03	14.53	4.05	4.81	14.52	3.50	176.55	
12:45:23	14.52	4.06	4.78	14.45	3.55	157.67	
12:45:43	14.50	4.07	4.62	14.43	3.57	153.88	
12:46:03	14.52	4.09	4.91	14.46	3.55	140.73	
12:46:23	14.48	4.11	4.01	14.52	3.50	149.26	
12:46:43	14.46	4.13	3.81	14.54	3.46	198.16	
12:47:03	14.45	4.14	3.91	14.44	3.52	238.15	
12:47:23	14.48	4.13	4.72	14.45	3.53	278.56	
12:47:43	14.49	4.12	4.87	14.55	3.43	341.63	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
12:48:03	14.48	4.12	4.75	14.57	3.38	353.05	
12:48:23	14.46	4.11	3.92	14.57	3.40	306.64	
12:48:43	14.49	4.11	4.43	14.52	3.42	232.68	
12:49:03	14.48	4.12	4.96	14.56	3.39	216.87	
12:49:23	14.49	4.10	4.89	14.59	3.41	210.40	
12:49:43	14.49	4.09	3.72	14.55	3.43	217.23	
12:50:03	14.46	4.07	3.92	14.50	3.51	185.14	
12:50:23	14.52	4.06	4.76	14.44	3.57	156.23	
12:50:43	14.54	4.06	4.87	14.41	3.64	121.93	
12:51:03	14.51	4.07	4.52	14.42	3.63	96.87	
12:51:23	14.50	4.06	4.29	14.45	3.58	87.07	
12:51:43	14.50	4.05	4.98	14.46	3.56	79.78	
12:52:03	14.52	4.05	5.07	14.39	3.63	72.32	
12:52:23	14.54	4.04	4.38	14.37	3.68	69.40	
12:52:43	14.54	4.06	4.61	14.33	3.74	78.39	
12:53:03	14.56	4.02	4.83	14.29	3.80	68.94	
12:53:23	14.59	3.99	5.32	14.23	3.83	67.85	
12:53:43	14.64	3.95	5.71	14.26	3.79	93.03	
12:54:03	14.67	3.91	5.30	14.33	3.72	97.36	
12:54:23	14.67	3.90	4.73	14.36	3.69	88.49	
12:54:43	14.68	3.90	4.66	14.31	3.71	88.08	
12:55:03	14.66	3.92	4.96	14.29	3.74	83.66	
12:55:23	14.67	3.94	5.10	14.28	3.79	89.62	
12:55:43	14.64	3.97	4.70	14.24	3.83	93.46	
12:56:03	14.60	4.00	4.69	14.24	3.81	97.88	
12:56:23	14.58	4.00	5.33	14.31	3.74	107.66	
12:56:43	14.59	3.99	4.94	14.36	3.69	115.75	
12:57:03	14.60	3.97	4.93	14.31	3.74	104.44	
12:57:23	14.63	3.93	4.47	14.28	3.75	95.48	
12:57:43	14.65	3.92	4.66	14.33	3.74	112.25	
12:58:03	14.65	3.91	4.50	14.33	3.74	121.31	
12:58:23	14.68	3.89	4.74	14.32	3.72	121.17	
12:58:43	14.66	3.88	4.12	14.32	3.71	100.09	
12:59:03	14.71	3.86	4.70	14.30	3.77	77.27	
12:59:23	14.60	3.85	3.90	14.33	3.74	68.35	
12:59:43	14.72	3.83	4.80	14.34	3.72	57.73	
average	14.57	3.98	5.11	14.42	3.62	124.01	Test 16
minimum	14.44	3.77	3.72	14.23	3.38	53.97	
maximum	14.73	4.14	7.30	14.61	3.85	353.05	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:45:03	12.49	4.84	-1.99	14.46	3.58	40.50	Test 17
14:45:23	12.39	4.64	-0.86	14.44	3.56	48.69	
14:45:43	12.60	4.47	-0.20	14.45	3.53	74.75	
14:46:03	12.60	4.32	-2.14	14.45	3.51	72.35	
14:46:23	12.61	4.18	-4.56	14.45	3.55	72.52	
14:46:43	12.68	4.04	-5.97	14.40	3.56	78.68	
14:47:03	12.74	3.95	-6.64	14.39	3.59	77.08	
14:47:23	12.51	3.89	-9.52	14.34	3.62	73.57	
14:47:43	12.68	3.83	-8.48	14.30	3.68	56.84	
14:48:03	12.77	3.80	-8.23	14.28	3.73	41.81	
14:48:23	12.71	3.78	-9.16	14.30	3.72	41.32	
14:48:43	12.73	3.78	-10.95	14.29	3.70	61.69	
14:49:03	12.78	3.77	-10.69	14.29	3.70	54.22	
14:49:23	12.88	3.71	-10.14	14.27	3.77	38.15	
14:49:43	12.95	3.64	-3.11	14.27	3.78	31.61	
14:50:03	13.06	3.55	3.60	14.31	3.73	33.83	
14:50:23	12.99	3.50	5.00	14.30	3.72	32.06	
14:50:43	12.99	3.45	4.57	14.33	3.71	39.57	
14:51:03	12.97	3.41	2.59	14.32	3.71	33.42	
14:51:23	13.01	3.39	0.39	14.34	3.69	41.54	
14:51:43	12.94	3.37	-2.35	14.33	3.68	41.56	
14:52:03	12.97	3.37	-4.28	14.39	3.65	44.70	
14:52:23	12.88	3.38	-6.76	14.38	3.59	50.72	
14:52:43	12.86	3.42	-7.54	14.43	3.54	80.65	
14:53:03	12.80	3.46	-10.05	14.43	3.52	92.16	
14:53:23	12.78	3.46	-9.23	14.44	3.51	74.52	
14:53:43	12.77	3.47	-10.29	14.46	3.53	51.56	
14:54:03	12.70	3.48	-11.75	14.44	3.56	38.31	
14:54:23	12.70	3.50	-11.88	14.37	3.62	34.57	
14:54:43	12.70	3.48	-11.99	14.31	3.69	58.29	
14:55:03	12.71	3.44	-12.22	14.26	3.75	52.47	
14:55:23	12.70	3.41	-11.48	14.25	3.78	41.02	
14:55:43	12.74	3.40	-10.38	14.27	3.80	33.18	
14:56:03	12.86	3.36	-6.37	14.30	3.76	28.92	
14:56:23	12.88	3.35	-6.68	14.35	3.69	29.80	
14:56:43	12.83	3.37	-8.48	14.39	3.62	38.15	
14:57:03	12.81	3.39	-10.18	14.38	3.64	33.54	
14:57:23	12.84	3.43	-10.50	14.37	3.65	26.11	
14:57:43	12.73	3.45	-10.74	14.45	3.58	37.74	
14:58:03	12.80	3.45	-10.43	14.42	3.61	40.13	
14:58:23	12.84	3.44	-11.27	14.33	3.70	34.31	
14:58:43	12.95	3.40	-10.54	14.30	3.74	23.94	
14:59:03	12.91	3.35	-5.11	14.27	3.77	16.85	
14:59:23	13.01	3.30	1.06	14.27	3.77	11.91	
14:59:43	12.95	3.28	1.51	14.29	3.75	9.15	
15:00:03	12.95	3.28	-0.01	14.31	3.74	8.48	
15:00:23	12.86	3.27	1.47	14.28	3.78	7.72	
15:00:43	12.88	3.26	3.30	14.28	3.81	8.98	
15:01:03	12.95	3.25	3.01	14.29	3.77	11.59	
15:01:23	13.03	3.24	0.42	14.34	3.74	15.19	
15:01:43	12.99	3.25	-2.38	14.34	3.70	15.36	
15:02:03	12.87	3.29	-6.01	14.33	3.69	12.24	
15:02:23	12.80	3.34	-8.63	14.29	3.74	9.74	
15:02:43	12.78	3.39	-10.35	14.30	3.75	12.86	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
15:03:03	12.69	3.43	-12.59	14.29	3.74	13.58
15:03:23	12.68	3.44	-13.18	14.29	3.77	14.81
15:03:43	12.73	3.40	-12.01	14.28	3.77	18.87
15:04:03	12.79	3.34	-10.53	14.32	3.68	50.48
15:04:23	12.67	3.31	-12.16	14.36	3.60	57.79
15:04:43	12.84	3.32	-11.43	14.39	3.55	59.21
15:05:03	12.81	3.36	-12.93	14.45	3.50	71.78
15:05:23	12.85	3.39	-12.88	14.40	3.52	70.23
15:05:43	12.87	3.41	-12.93	14.42	3.57	50.46
15:06:03	12.87	3.40	-13.17	14.40	3.60	35.70
15:06:23	12.94	3.39	-12.73	14.43	3.60	32.04
15:06:43	12.96	3.39	-12.91	14.37	3.64	25.80
15:07:03	12.88	3.38	-12.90	14.33	3.71	28.52
15:07:23	12.86	3.37	-11.63	14.32	3.73	32.26
15:07:43	12.92	3.33	-4.50	14.29	3.77	31.32
15:08:03	12.96	3.25	7.43	14.27	3.77	24.95
15:08:23	13.05	3.21	13.23	14.30	3.76	21.36
15:08:43	12.96	3.23	10.03	14.27	3.79	18.26
15:09:03	12.97	3.24	8.89	14.24	3.83	15.88
15:09:23	12.99	3.24	10.90	14.21	3.85	21.28
15:09:43	13.02	3.24	12.52	14.24	3.81	28.24
15:10:03	12.99	3.22	15.31	14.26	3.80	27.88
15:10:23	13.07	3.21	16.02	14.25	3.77	40.14
15:10:43	13.09	3.19	14.39	14.29	3.70	63.36
15:11:03	13.06	3.21	10.03	14.26	3.75	60.68
15:11:23				14.23	3.79	46.66
15:11:43				14.24	3.79	39.82
15:12:03				14.27	3.76	39.12
15:12:23				14.29	3.72	48.74
15:12:43				14.31	3.69	44.93
15:13:03				14.29	3.72	32.05
15:13:23				14.27	3.78	20.86
15:13:43				14.27	3.80	15.37
15:14:03				14.24	3.77	12.07
15:14:23				14.29	3.76	12.63
15:14:43				14.25	3.79	12.16
15:15:03				14.25	3.82	14.22
15:15:23				14.23	3.81	25.23
15:15:43				14.25	3.73	52.90
15:16:03				14.29	3.74	47.37
15:16:23				14.29	3.75	32.80
15:16:43				14.30	3.73	26.86
15:17:03				14.26	3.74	23.51
15:17:23				14.31	3.74	21.19
15:17:43				14.32	3.71	22.82
15:18:03				14.33	3.69	33.28
15:18:23	14.95	3.33	21.19	14.30	3.67	47.43
15:18:43	14.93	3.39	16.28	14.29	3.70	45.20
15:19:03	14.88	3.42	13.26	14.30	3.71	43.67
15:19:23	14.85	3.45	12.54	14.30	3.65	68.49
15:19:43	14.77	3.48	11.10	14.38	3.56	86.69
15:20:03	14.69	3.48	9.55	14.36	3.59	71.54
15:20:23	14.72	3.43	9.25	14.36	3.61	57.03
15:20:43	14.80	3.38	9.98	14.31	3.62	57.28

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
15:21:03	14.83	3.35	9.45	14.36	3.63	59.58
15:21:23	14.91	3.30	10.95	14.37	3.61	111.15
15:21:43	14.85	3.26	10.46	14.34	3.62	119.21
15:22:03	14.90	3.24	11.29	14.26	3.67	85.86
15:22:23	14.91	3.23	12.06	14.31	3.68	60.73
15:22:43	14.88	3.22	11.03	14.30	3.71	48.12
15:23:03	14.99	3.14	20.85	14.25	3.75	41.99
15:23:23	15.08	3.07	35.89	14.25	3.79	31.38
15:23:43	15.10	3.00	65.18	14.25	3.83	25.49
15:24:03	15.42	2.94	112.01	14.23	3.83	23.50
15:24:23	15.46	2.90	128.14	14.20	3.86	23.59
15:24:43	15.50	2.88	122.35	14.17	3.90	24.92
15:25:03	15.45	2.88	107.49	14.16	3.93	22.34
15:25:23	15.44	2.88	88.35	14.13	3.99	16.03
15:25:43	15.37	2.91	69.57	14.12	3.95	12.75
15:26:03	15.34	2.96	54.59	14.16	3.92	15.09
15:26:23	15.28	2.98	42.83	14.13	3.96	14.74
15:26:43	15.21	2.96	47.09	14.15	3.90	16.88
15:27:03	15.23	2.95	54.04	14.16	3.88	16.43
15:27:23	15.31	2.96	52.03	14.21	3.87	14.89
15:27:43	15.31	2.96	49.61	14.22	3.84	15.07
15:28:03	15.32	2.98	48.08	14.20	3.85	16.84
15:28:23	15.33	3.01	43.59	14.16	3.88	16.28
15:28:43	15.39	3.00	38.77	14.16	3.90	14.37
15:29:03	15.38	2.98	34.81	14.20	3.90	15.45
15:29:23	15.40	3.01	31.42	14.17	3.87	21.96
15:29:43	15.40	3.07	28.64	14.23	3.78	35.48
15:30:03	15.36	3.14	24.41	14.28	3.68	64.93
15:30:23	15.96	3.18	26.47	14.31	3.68	63.30
15:30:43	15.88	3.20	23.90	14.27	3.72	46.41
15:31:03	16.77	3.21	32.22	14.25	3.76	35.09
15:31:23	16.86	3.20	35.63	14.24	3.81	27.76
15:31:43	16.88	3.17	47.11	14.23	3.81	24.60
15:32:03	16.87	3.13	58.69	14.21	3.81	28.22
15:32:23	16.95	3.09	61.65	14.19	3.80	34.40
15:32:43	16.92	3.11	56.61	14.29	3.72	45.48
15:33:03	16.88	3.16	48.02	14.29	3.70	41.31
15:33:23	16.87	3.18	43.15	14.31	3.68	49.75
15:33:43	16.83	3.23	37.97	14.28	3.65	64.72
15:34:03	16.84	3.23	34.23	14.36	3.59	89.41
15:34:23	15.87	3.21	23.19	14.30	3.63	77.17
15:34:43	16.03	3.21	21.73	14.34	3.64	116.39
15:35:03	16.08	3.23	20.24	14.36	3.57	128.49
15:35:23	16.15	3.25	21.25	14.38	3.59	107.74
15:35:43	16.15	3.25	20.20	14.30	3.64	82.39
15:36:03	16.12	3.22	21.98	14.28	3.68	73.73
15:36:23	16.13	3.22	21.74	14.22	3.75	64.67
15:36:43	16.17	3.22	22.67	14.15	3.86	46.85
15:37:03	16.10	3.21	24.60	14.13	3.91	35.66
15:37:23	16.13	3.20	25.83	14.20	3.86	32.22
15:37:43	16.05	3.20	25.07	14.20	3.84	29.80
15:38:03	16.06	3.18	32.38	14.19	3.85	26.82
15:38:23	16.05	3.18	38.13	14.18	3.81	39.18
15:38:43	16.04	3.20	37.80	14.22	3.79	44.98

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:39:03	15.98	3.27	35.33	14.21	3.79	46.93	
15:39:23	15.92	3.32	30.89	14.20	3.81	56.61	
15:39:43	15.96	3.34	27.21	14.17	3.81	61.81	
15:40:03	15.81	3.35	24.58	14.17	3.84	54.83	
15:40:23	15.80	3.35	26.23	14.13	3.89	55.23	
15:40:43	15.78	3.31	29.89	14.10	3.93	54.32	
15:41:03	15.81	3.26	31.39	14.09	3.92	56.27	
15:41:23	15.75	3.25	28.60	14.17	3.84	54.09	
15:41:43	15.75	3.28	24.78	14.23	3.77	48.19	
15:42:03	15.66	3.30	20.33	14.23	3.76	41.59	
15:42:23	15.65	3.34	18.65	14.25	3.76	47.90	
15:42:43	15.55	3.38	16.34	14.23	3.76	48.08	
15:43:03	15.36	3.41	14.39	14.29	3.68	55.67	
15:43:23	15.33	3.47	13.09	14.34	3.55	84.69	
15:43:43	15.29	3.50	12.29	14.44	3.48	113.67	
15:44:03	14.44	3.49	6.40	14.43	3.45	116.21	
15:44:23	14.68	3.46	9.11	14.45	3.47	103.89	
15:44:43	15.22	3.41	13.40	14.37	3.51	89.22	
average	14.24	3.34	14.78	14.29	3.72	43.43	Test 17
minimum	12.39	2.88	-13.18	14.09	3.45	7.72	
maximum	16.95	4.84	128.14	14.46	3.99	128.49	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
7:45:06	15.22	3.01	174.07	14.26	3.92	61.60	Test 18
7:45:26	15.15	3.13	130.88	14.33	3.85	54.22	
7:45:46	15.11	3.20	94.19	14.37	3.84	42.36	
7:46:06	15.02	3.22	68.48	14.31	3.90	32.34	
7:46:26	15.06	3.16	65.41	14.29	3.95	31.29	
7:46:46	15.13	3.12	60.40	14.28	3.94	59.60	
7:47:06	15.11	3.15	47.23	14.29	3.89	68.66	
7:47:26	15.13	3.17	36.45	14.28	3.89	63.62	
7:47:46	15.12	3.19	28.49	14.28	3.89	62.69	
7:48:06	15.11	3.17	37.79	14.31	3.90	58.45	
7:48:26	15.12	3.15	42.16	14.31	3.91	52.21	
7:48:46	15.11	3.17	39.86	14.29	3.92	43.76	
7:49:06	15.12	3.16	38.21	14.27	3.95	52.35	
7:49:26	15.10	3.22	32.11	14.28	3.92	58.41	
7:49:46	15.08	3.27	25.31	14.31	3.88	57.03	
7:50:06	15.11	3.22	24.35	14.33	3.86	57.03	
7:50:26	15.15	3.11	38.14	14.32	3.88	55.49	
7:50:46	15.27	2.95	69.88	14.30	3.92	52.69	
7:51:06	15.40	2.83	76.23	14.31	3.89	49.05	
7:51:26	15.41	2.82	64.65	14.31	3.90	45.05	
7:51:46	15.37	2.90	48.70	14.35	3.88	43.01	
7:52:06	15.30	3.02	36.80	14.35	3.86	41.95	
7:52:26	15.26	3.08	26.90	14.34	3.84	54.97	
7:52:46	15.24	3.10	20.15	14.36	3.80	59.04	
7:53:06	15.26	3.11	16.25	14.34	3.87	50.52	
7:53:26	15.23	3.14	14.54	14.34	3.88	45.77	
7:53:46	15.26	3.10	14.37	14.33	3.87	60.29	
7:54:06	15.30	3.05	13.06	14.30	3.87	93.50	
7:54:26	15.30	3.05	11.87	14.35	3.83	124.58	
7:54:46	15.31	3.04	15.52	14.39	3.75	143.72	
7:55:06	15.33	3.00	18.50	14.40	3.75	132.24	
7:55:26	15.40	2.92	21.51	14.41	3.73	120.58	
7:55:46	15.46	2.82	22.65	14.43	3.72	106.18	
7:56:06	15.54	2.75	22.20	14.39	3.76	86.11	
7:56:26	15.55	2.72	21.26	14.35	3.81	73.39	
7:56:46	15.55	2.73	18.79	14.33	3.85	60.82	
7:57:06	15.59	2.74	18.49	14.33	3.87	51.82	
7:57:26	15.61	2.72	23.84	14.32	3.91	55.71	
7:57:46	15.61	2.70	31.32	14.29	3.92	65.31	
7:58:06	15.57	2.71	35.86	14.25	3.94	66.85	
7:58:26	15.57	2.72	37.85	14.26	3.96	60.32	
7:58:46	15.55	2.74	34.43	14.24	4.00	53.32	
7:59:06	15.56	2.74	29.57	14.28	3.96	51.78	
7:59:26	15.59	2.71	31.59	14.28	3.92	60.62	
7:59:46	15.57	2.65	56.62	14.29	3.85	77.16	
8:00:06	15.58	2.67	61.09	14.38	3.80	107.41	
8:00:26	15.54	2.71	56.68	14.38	3.79	116.79	
8:00:46	15.63	2.64	87.50	14.37	3.80	115.69	
8:01:06	15.71	2.56	108.21	14.37	3.80	115.82	
8:01:26	15.72	2.54	120.13	14.36	3.80	128.78	
8:01:46	15.73	2.48	248.37	14.37	3.79	147.12	
8:02:06	15.75	2.49	306.10	14.40	3.74	149.28	
8:02:26	15.69	2.57	269.27	14.43	3.69	141.59	
8:02:46	15.63	2.63	209.91	14.42	3.72	133.08	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
8:03:06	15.54	2.73	152.43	14.44	3.73	122.61	
8:03:26	15.53	2.77	109.14	14.41	3.77	113.21	
8:03:46	15.56	2.73	88.30	14.45	3.68	119.77	
8:04:06	15.64	2.66	88.19	14.49	3.64	134.02	
8:04:26	15.64	2.65	84.15	14.50	3.61	135.63	
8:04:46	15.60	2.68	69.72	14.50	3.62	134.05	
8:05:06	15.58	2.67	57.95	14.42	3.70	145.37	
8:05:26	15.63	2.60	84.30	14.42	3.70	149.73	
8:05:46	15.71	2.46	152.42	14.41	3.74	155.82	
8:06:06	15.78	2.39	170.84	14.39	3.78	162.87	
8:06:26	15.81	2.34	176.61	14.35	3.81	150.64	
8:06:46	15.88	2.29	188.90	14.35	3.79	142.88	
8:07:06	15.92	2.24	211.31	14.35	3.82	171.53	
8:07:26	16.03	2.20	268.85	14.34	3.83	222.51	
8:07:46	15.93	2.24	274.11	14.38	3.75	248.18	
8:08:06	15.88	2.32	229.24	14.39	3.74	239.72	
8:08:26	15.85	2.34	196.50	14.40	3.72	220.30	
8:08:46	15.86	2.34	185.71	14.41	3.74	194.17	
8:09:06	15.85	2.36	162.68	14.34	3.82	164.65	
8:09:26	15.85	2.37	156.92	14.27	3.91	145.44	
8:09:46	15.84	2.39	142.71	14.23	3.96	132.80	
8:10:06	15.82	2.43	123.05	14.23	3.98	148.51	
8:10:26	15.74	2.49	103.90	14.24	3.96	151.28	
8:10:46	15.72	2.55	99.01	14.26	3.92	149.01	
8:11:06	15.69	2.58	100.80	14.26	3.93	143.00	
8:11:26	15.67	2.60	101.43	14.27	3.91	147.50	
8:11:46	15.63	2.68	86.73	14.31	3.88	161.73	
8:12:06	15.60	2.70	94.96	14.34	3.85	174.84	
8:12:26	15.63	2.59	164.22	14.32	3.83	197.75	
8:12:46	15.70	2.52	185.14	14.31	3.83	225.62	
8:13:06	15.69	2.54	167.15	14.30	3.84	261.32	
8:13:26	15.63	2.68	130.70	14.34	3.80	291.90	
8:13:46	15.53	2.78	101.09	14.37	3.77	325.58	
8:14:06	15.52	2.74	87.50	14.37	3.75	336.32	
8:14:26	15.59	2.64	90.36	14.36	3.74	349.50	
8:14:46	15.70	2.53	111.50	14.37	3.77	337.42	
average	15.51	2.76	92.25	14.34	3.83	120.67	Test 18
minimum	15.02	2.20	11.87	14.23	3.61	31.29	
maximum	16.03	3.27	306.10	14.50	4.00	349.50	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:45:06	14.96	3.49	99.46	14.55	3.52	97.27	Test 19
10:45:26	14.94	3.52	94.74	14.55	3.55	90.77	
10:45:46	15.25	3.15	20.84	14.56	3.53	83.74	
10:46:06	15.29	3.17	16.65	14.54	3.54	71.82	
10:46:26	15.32	3.09	24.32	14.49	3.60	58.98	
10:46:46	15.37	3.00	35.40	14.52	3.61	49.16	
10:47:06	15.41	2.95	36.75	14.56	3.59	43.29	
10:47:26	15.44	2.94	34.42	14.54	3.59	41.56	
10:47:46	15.41	2.98	29.76	14.56	3.56	42.02	
10:48:06	15.41	3.00	28.65	14.62	3.53	37.02	
10:48:26	15.40	2.99	29.66	14.59	3.54	30.47	
10:48:46	15.41	2.99	28.00	14.59	3.54	29.36	
10:49:06	15.40	3.01	23.87	14.61	3.52	33.22	
10:49:26	15.37	3.05	21.54	14.62	3.47	37.87	
10:49:46	15.34	3.08	19.71	14.65	3.44	42.47	
10:50:06	15.33	3.10	18.66	14.69	3.42	40.66	
10:50:26	15.31	3.13	16.28	14.68	3.40	44.59	
10:50:46	15.27	3.15	14.22	14.69	3.37	51.97	
10:51:06	15.29	3.13	13.68	14.69	3.37	60.91	
10:51:26	15.34	3.07	15.07	14.64	3.40	59.00	
10:51:46	15.34	3.09	15.03	14.61	3.43	65.05	
10:52:06	15.29	3.15	14.22	14.64	3.40	77.61	
10:52:26	15.23	3.20	13.56	14.67	3.38	72.52	
10:52:46	15.20	3.22	13.37	14.64	3.42	57.66	
10:53:06	15.18	3.25	13.67	14.62	3.45	45.10	
10:53:26	15.17	3.27	14.11	14.62	3.49	34.69	
10:53:46	15.18	3.27	13.04	14.61	3.53	28.19	
10:54:06	15.16	3.28	12.24	14.55	3.58	24.97	
10:54:26	15.15	3.30	11.60	14.55	3.60	27.42	
10:54:46	15.10	3.35	10.79	14.58	3.60	26.51	
10:55:06	15.08	3.37	10.26	14.55	3.59	26.67	
10:55:26	15.09	3.37	9.69	14.55	3.58	27.38	
10:55:46	15.08	3.37	10.56	14.58	3.57	25.21	
10:56:06	15.09	3.36	10.36	14.58	3.55	24.09	
10:56:26	15.14	3.30	11.06	14.58	3.53	29.39	
10:56:46	15.20	3.25	11.58	14.57	3.54	40.50	
10:57:06	15.23	3.21	12.12	14.62	3.51	43.95	
10:57:26	15.23	3.21	11.86	14.58	3.52	49.03	
10:57:46	15.21	3.23	11.24	14.57	3.51	53.43	
10:58:06	15.18	3.25	10.18	14.56	3.51	54.50	
10:58:26	15.18	3.25	14.00	14.57	3.51	56.98	
10:58:46	15.21	3.19	35.97	14.57	3.49	56.38	
10:59:06	15.22	3.15	41.74	14.57	3.49	51.67	
10:59:26	15.26	3.13	39.43	14.59	3.53	45.97	
10:59:46	15.25	3.14	32.21	14.57	3.54	47.33	
11:00:06	15.23	3.18	25.78	14.57	3.54	47.69	
11:00:26	15.21	3.22	21.46	14.57	3.51	44.88	
11:00:46	15.18	3.21	29.45	14.65	3.45	42.95	
11:01:06	15.22	3.15	38.43	14.66	3.43	38.10	
11:01:26	15.28	3.09	40.30	14.69	3.43	32.53	
11:01:46	15.33	3.06	35.12	14.62	3.50	30.06	
11:02:06	15.32	3.09	28.77	14.57	3.55	37.24	
11:02:26	15.27	3.16	23.25	14.57	3.53	40.98	
11:02:46	15.20	3.23	17.42	14.58	3.51	40.86	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
11:03:06	15.17	3.28	14.86	14.64	3.44	42.62	
11:03:26	15.17	3.29	13.32	14.70	3.41	40.28	
11:03:46	15.17	3.30	13.00	14.65	3.43	49.07	
11:04:06	15.12	3.31	11.65	14.64	3.40	55.89	
11:04:26	15.17	3.27	12.53	14.62	3.42	52.48	
11:04:46	15.22	3.22	12.52	14.63	3.43	48.29	
11:05:06	15.28	3.17	12.15	14.70	3.35	52.73	
11:05:26	15.30	3.13	15.04	14.66	3.37	64.95	
11:05:46	15.27	3.16	14.97	14.65	3.39	66.23	
11:06:06	15.24	3.20	13.27	14.66	3.42	59.70	
11:06:26	15.23	3.22	13.27	14.59	3.48	51.25	
11:06:46	15.20	3.25	12.93	14.57	3.54	41.29	
11:07:06	15.21	3.25	12.48	14.50	3.63	31.75	
11:07:26	15.22	3.24	12.17	14.44	3.72	25.70	
11:07:46	15.21	3.26	12.27	14.46	3.69	22.62	
11:08:06	15.20	3.25	10.75	14.44	3.66	14.00	
11:08:26	15.19	3.25	10.53	14.47	3.67	17.18	
11:08:46	15.18	3.25	9.68	14.51	3.64	16.35	
11:09:06	15.19	3.25	10.10	14.53	3.61	17.06	
11:09:26	15.21	3.23	9.81	14.53	3.61	16.22	
11:09:46	15.24	3.20	10.26	14.54	3.61	17.01	
11:10:06	15.28	3.16	11.31	14.55	3.56	35.02	
11:10:26	15.30	3.13	11.64	14.56	3.51	46.46	
11:10:46	15.31	3.11	11.28	14.63	3.43	49.45	
11:11:06	15.29	3.11	11.31	14.65	3.40	55.27	
11:11:26	15.30	3.12	10.55	14.71	3.28	180.95	
11:11:46	15.27	3.16	10.39	14.72	3.32	177.46	
11:12:06	15.29	3.16	10.69	14.67	3.38	124.84	
11:12:26	15.27	3.18	10.41	14.60	3.43	81.43	
11:12:46	15.22	3.19	9.62	14.61	3.47	56.42	
11:13:06	15.24	3.19	10.11	14.59	3.51	41.58	
11:13:26	15.27	3.16	10.11	14.59	3.52	34.18	
11:13:46	15.28	3.16	10.75	14.61	3.50	32.32	
11:14:06	15.27	3.15	10.52	14.60	3.48	29.53	
11:14:26	15.30	3.08	11.00	14.61	3.47	28.35	
11:14:46	15.36	3.04	13.24	14.63	3.45	35.42	
average	15.24	3.18	18.96	14.60	3.50	47.83	Test 19
minimum	14.94	2.94	9.62	14.44	3.28	14.00	
maximum	15.44	3.52	99.46	14.72	3.72	180.95	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
12:45:06	14.76	3.34	16.13	14.40	3.74	20.17	Test 20
12:45:26	14.74	3.38	14.35	14.42	3.71	21.66	
12:45:46	14.73	3.41	13.15	14.45	3.65	20.58	
12:46:06	14.73	3.40	11.13	14.51	3.59	26.55	
12:46:26	14.69	3.45	10.46	14.50	3.57	25.31	
12:46:46	14.65	3.48	9.15	14.52	3.57	28.44	
12:47:06	14.67	3.46	12.12	14.47	3.63	27.85	
12:47:26	14.68	3.44	11.90	14.46	3.62	27.94	
12:47:46	14.69	3.42	10.33	14.49	3.62	28.43	
12:48:06	14.67	3.47	10.07	14.47	3.64	22.89	
12:48:26	14.62	3.55	8.39	14.49	3.64	21.69	
12:48:46	14.58	3.60	7.56	14.48	3.65	26.77	
12:49:06	14.57	3.60	7.14	14.41	3.72	28.26	
12:49:26	14.67	3.48	12.14	14.42	3.72	25.16	
12:49:46	14.77	3.37	14.93	14.40	3.72	20.15	
12:50:06	14.78	3.37	13.86	14.37	3.77	19.46	
12:50:26	14.78	3.37	11.98	14.33	3.80	20.38	
12:50:46	14.76	3.39	9.93	14.34	3.78	21.72	
12:51:06	14.75	3.41	8.80	14.36	3.77	23.99	
12:51:26	14.73	3.43	7.63	14.36	3.75	28.80	
12:51:46	14.71	3.45	6.73	14.39	3.72	38.51	
12:52:06	14.74	3.46	6.79	14.41	3.65	41.87	
12:52:26	14.70	3.46	5.89	14.47	3.62	41.67	
12:52:46	14.72	3.45	6.46	14.45	3.65	35.96	
12:53:06	14.70	3.46	5.97	14.39	3.72	29.81	
12:53:26	14.73	3.43	6.44	14.38	3.75	26.14	
12:53:46	14.74	3.43	6.87	14.41	3.73	25.72	
12:54:06	14.76	3.39	9.90	14.43	3.70	26.75	
12:54:26	14.81	3.34	14.83	14.35	3.76	23.53	
12:54:46	14.83	3.32	14.95	14.30	3.83	19.33	
12:55:06	14.84	3.29	14.52	14.29	3.85	17.77	
12:55:26	14.87	3.28	14.13	14.26	3.89	16.79	
12:55:46	14.83	3.30	12.22	14.24	3.90	20.05	
12:56:06	14.84	3.29	11.19	14.26	3.88	23.61	
12:56:26	14.84	3.30	10.90	14.30	3.81	32.78	
12:56:46	14.81	3.33	9.94	14.36	3.74	41.04	
12:57:06	14.78	3.36	8.97	14.35	3.73	42.29	
12:57:26	14.76	3.40	7.57	14.35	3.74	41.28	
12:57:46	14.74	3.43	7.71	14.35	3.74	38.45	
12:58:06	14.70	3.45	6.75	14.37	3.73	41.46	
12:58:26	14.72	3.44	6.63	14.36	3.75	43.95	
12:58:46	14.72	3.44	7.16	14.30	3.78	46.59	
12:59:06	14.69	3.47	6.39	14.30	3.82	44.99	
12:59:26	14.67	3.49	6.76	14.26	3.85	37.52	
12:59:46	14.68	3.48	6.14	14.27	3.85	33.70	
13:00:06	14.66	3.49	6.03	14.28	3.84	37.14	
13:00:26	14.66	3.52	6.17	14.22	3.89	31.42	
13:00:46	14.62	3.53	6.49	14.19	3.95	25.44	
13:01:06	14.66	3.49	11.12	14.14	3.99	19.72	
13:01:26	14.69	3.43	17.55	14.14	4.01	18.10	
13:01:46	14.69	3.45	18.72	14.20	3.95	19.01	
13:02:06	14.72	3.43	16.62	14.24	3.88	21.56	
13:02:26	14.70	3.44	13.14	14.27	3.85	25.16	
13:02:46	14.70	3.44	11.36	14.26	3.89	24.69	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:03:06	14.72	3.43	10.09	14.21	3.93	21.11
13:03:26	14.72	3.40	12.80	14.23	3.95	18.28
13:03:46	14.71	3.46	13.48	14.22	3.95	15.72
13:04:06	14.62	3.56	11.68	14.23	3.92	16.01
13:04:26	14.55	3.67	10.31	14.26	3.88	18.54
13:04:46	14.49	3.73	8.41	14.26	3.88	16.66
13:05:06	14.45	3.79	7.76	14.22	3.92	15.47
13:05:26	14.42	3.82	7.43	14.18	3.97	13.12
13:05:46	14.39	3.84	6.44	14.12	4.03	12.28
13:06:06	14.38	3.85	6.25	14.13	4.03	12.72
13:06:26	14.39	3.82	6.54	14.13	4.01	11.53
13:06:46	14.37	3.85	5.93	14.19	3.94	17.70
13:07:06	14.36	3.87	5.90	14.21	3.92	19.76
13:07:26	14.37	3.83	5.42	14.18	3.94	19.27
13:07:46	14.38	3.81	5.49	14.18	3.96	18.43
13:08:06	14.42	3.77	6.80	14.15	4.00	15.87
13:08:26	14.43	3.74	6.10	14.17	3.95	28.65
13:08:46	14.47	3.71	7.90	14.26	3.82	59.97
13:09:06	14.56	3.59	11.08	14.26	3.78	69.84
13:09:26	14.64	3.47	15.46	14.28	3.75	73.53
13:09:46	14.71	3.43	19.62	14.33	3.73	63.88
13:10:06	14.73	3.38	23.46	14.32	3.72	50.81
13:10:26	14.74	3.37	21.08	14.39	3.72	40.00
13:10:46	14.75	3.38	17.87	14.41	3.66	31.25
13:11:06	14.75	3.37	13.52	14.43	3.63	25.15
13:11:26	14.80	3.31	12.96	14.46	3.61	20.65
13:11:46	14.80	3.32	12.15	14.45	3.61	17.54
13:12:06	14.81	3.31	11.17	14.45	3.61	17.49
13:12:26	14.82	3.29	12.22	14.42	3.63	26.69
13:12:46	14.78	3.35	11.94	14.37	3.70	26.74
13:13:06	14.75	3.40	10.63	14.32	3.77	24.11
13:13:26	14.70	3.47	9.07	14.24	3.85	20.76
13:13:46	14.61	3.55	7.68	14.21	3.91	17.45
13:14:06	14.60	3.59	7.37	14.18	3.95	14.76
13:14:26	14.52	3.68	6.91	14.15	3.99	13.59
13:14:46	14.50	3.71	6.40	14.10	4.05	12.55
13:15:06	14.53	3.64	6.84	14.06	4.09	16.89
13:15:26	14.56	3.61	7.06	14.08	4.08	18.07
13:15:46	14.62	3.53	6.89	14.06	4.11	15.32
13:16:06	14.68	3.44	9.10	14.06	4.10	14.37
13:16:26	14.71	3.44	10.09	14.11	4.08	17.20
13:16:46	14.69	3.46	10.36	14.06	4.09	15.02
13:17:06	14.66	3.51	10.54	14.09	4.10	13.70
13:17:26	14.62	3.58	10.65	14.08	4.08	16.56
13:17:46	14.56	3.64	9.23	14.04	4.12	14.82
13:18:06	14.50	3.71	8.21	14.03	4.17	11.69
13:18:26	14.48	3.76	7.97	14.01	4.14	9.97
13:18:46	14.48	3.75	7.43	14.05	4.17	10.17
13:19:06	14.50	3.70	7.13	14.03	4.20	10.35
13:19:26	14.56	3.64	7.13	14.23	3.83	44.99
13:19:46	14.56	3.61	6.67	14.27	3.81	43.80
13:20:06	14.61	3.56	6.89	14.28	3.83	41.40
13:20:26	14.59	3.58	6.74	14.29	3.85	41.52
13:20:46	14.58	3.61	6.86	14.29	3.91	41.67

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:21:06	14.55	3.63	6.71	14.28	3.99	41.63
13:21:26	14.57	3.58	6.35	14.29	4.08	41.84
13:21:46	14.63	3.54	6.85	14.29	4.18	41.63
13:22:06	14.64	3.51	6.44	14.29	4.28	41.81
13:22:26	14.69	3.46	7.05	14.29	4.37	41.89
13:22:46	14.71	3.45	7.94	14.29	4.47	41.97
13:23:06	14.69	3.47	8.10	14.31	4.57	42.13
13:23:26	14.70	3.45	8.52	14.30	4.67	41.69
13:23:46	14.72	3.41	8.48	14.28	4.77	41.35
13:24:06	14.74	3.42	8.03	14.30	4.86	41.95
13:24:26	14.69	3.48	7.94	5.18	13.34	18.35
13:24:46	14.64	3.56	7.41	0.06	21.00	-0.90
13:25:06	14.61	3.61	7.95	0.04	21.02	-0.88
13:25:26	14.58	3.62	7.49	0.03	21.02	-0.74
13:25:46	14.58	3.65	7.79	0.05	21.02	-0.87
13:26:06	13.81	4.73	6.85	13.73	4.16	2.16
13:26:26	13.10	5.54	6.70	14.72	3.07	2.48
13:26:46	12.62	6.11	7.25	14.46	3.46	2.10
13:27:06	12.30	6.46	6.61	14.51	3.42	2.18

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
Sensor Name	CO2_101	O2_101	CO_101	CO2_102	O2_102	CO_102	
13:28:18	11.83	6.97	6.80	15.25	2.67	26.04	
13:28:28	11.80	6.98	6.50	15.10	2.76	11.56	
13:28:38	11.76	7.00	6.63	14.73	3.22	2.91	
13:28:48	11.77	6.99	6.87	14.62	3.45	2.31	
13:28:58	11.78	6.98	8.16	14.77	3.21	2.67	
13:29:08	11.76	7.01	8.61	14.51	3.59	2.33	
13:29:18	11.74	7.02	8.81	14.37	3.74	1.72	
13:29:28	11.73	7.02	8.82	14.53	3.58	1.80	
13:29:38	11.73	7.03	8.26	14.64	3.41	2.08	
13:29:48	11.69	7.06	8.07	14.65	3.38	2.34	
13:29:58	11.70	7.05	7.90	14.46	3.66	2.08	
13:30:08	11.71	7.05	8.05	14.68	3.39	2.33	
13:30:18	11.70	7.03	8.11	14.78	3.23	2.01	
13:30:28	11.72	7.03	7.21	14.76	3.24	2.14	
13:30:38	11.73	6.99	6.73	14.75	3.28	2.16	
							Tap 1 - 1
13:30:48	11.75	7.01	6.81	14.93	3.08	2.78	
13:30:58	11.77	6.98	7.04	4.45	15.14	1.20	
13:31:08	11.64	7.21	6.49	10.85	8.62	18.99	
13:31:18	11.03	8.08	6.54	14.44	3.51	7.38	
13:31:28	10.34	8.77	5.77	14.73	3.27	4.30	
13:31:38	10.09	8.99	6.22	15.14	2.79	2.78	
13:31:48	10.08	8.93	6.50	15.19	2.72	2.56	
13:31:58	10.35	8.52	6.09	15.10	2.81	2.96	
13:32:08	10.79	7.98	6.19	15.52	2.39	4.73	
13:32:18	11.06	7.68	6.58	15.47	2.40	11.03	
13:32:28	11.11	7.63	6.39	15.01	2.97	4.59	
13:32:38	11.21	7.57	6.83	14.94	3.05	3.22	
							Tap 1 - 2

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:32:48	11.27	7.50	7.00	6.34	13.37	2.87	
13:32:58	11.33	7.45	7.26	13.30	5.04	5.69	
13:33:08	11.36	7.39	7.11	14.27	3.81	3.31	
13:33:18	11.39	7.34	6.61	14.31	3.81	2.62	
13:33:28	11.45	7.27	7.24	14.33	3.77	2.21	
13:33:38	11.50	7.20	7.48	14.48	3.62	2.31	
13:33:48	11.54	7.12	7.63	14.14	3.97	1.88	
13:33:58	11.57	6.99	7.36	14.44	3.64	1.70	
13:34:08	11.63	6.81	6.75	14.61	3.41	2.69	
13:34:18	11.73	6.59	7.36	14.63	3.45	2.48	
							Tap 1 - 3
13:34:28	11.87	6.35	8.15	12.27	5.53	2.44	
13:34:38	12.03	6.09	8.14	8.91	11.08	4.93	
13:34:48	12.22	5.85	7.91	13.43	4.77	4.38	
13:34:58	12.44	5.62	8.27	13.92	4.26	2.25	
13:35:08	12.65	5.42	8.80	14.21	3.93	1.75	
13:35:18	12.85	5.24	8.64	14.53	3.51	2.46	
13:35:28	13.01	5.09	8.36	14.49	3.55	3.30	
13:35:38	13.16	4.96	8.68	14.25	3.83	2.08	
13:35:48	13.29	4.86	9.15	14.38	3.69	1.86	
13:35:58	13.42	4.77	8.58	14.49	3.59	2.63	
13:36:08	13.51	4.70	8.94	14.23	3.86	2.14	
							Tap 1 - 4
13:36:18	13.60	4.64	9.23	14.09	4.07	1.93	
13:36:28	13.65	4.59	9.05	8.03	11.03	0.77	
13:36:38	13.69	4.56	8.69	13.28	5.15	1.64	
13:36:48	13.75	4.52	8.40	14.38	3.65	1.97	
13:36:58	13.79	4.50	8.40	14.61	3.38	2.36	
13:37:08	13.81	4.47	8.82	14.64	3.36	1.74	
13:37:18	13.83	4.46	8.49	14.61	3.38	2.10	
13:37:28	13.84	4.44	8.10	14.88	3.08	2.89	
13:37:38	13.86	4.42	7.79	14.70	3.27	2.52	
13:37:48	13.88	4.40	7.84	14.67	3.31	2.80	
13:37:58	13.91	4.40	7.99	14.42	3.63	2.14	
13:38:08	13.91	4.38	7.99	14.45	3.60	1.92	
							Tap 2 - 1
13:38:18	13.92	4.37	7.83	12.76	4.82	2.43	
13:38:28	13.92	4.36	7.69	10.12	9.99	0.66	
13:38:38	13.95	4.33	7.69	14.24	3.83	2.39	
13:38:48	13.94	4.32	7.47	14.99	2.94	2.51	
13:38:58	13.97	4.30	7.58	14.86	3.05	2.25	
13:39:08	13.98	4.29	8.05	14.74	3.24	2.59	
13:39:18	13.97	4.27	7.29	15.25	2.67	2.86	
13:39:28	14.01	4.26	7.47	15.49	2.37	3.14	
13:39:38	14.02	4.24	6.83	15.67	2.18	5.93	
13:39:48	14.04	4.24	7.36	15.45	2.40	5.34	
13:39:58	14.03	4.24	7.33	15.46	2.42	2.66	
13:40:08	14.04	4.24	7.68	15.77	2.05	11.99	
13:40:18	14.04	4.24	7.13	15.44	2.47	8.40	
							Tap 2 - 2
13:40:28	14.05	4.24	7.70	9.89	7.98	1.95	
13:40:38	14.04	4.25	8.02	10.72	8.98	1.08	
13:40:48	14.05	4.26	7.62	14.12	3.92	4.33	
13:40:58	14.03	4.25	7.71	14.60	3.39	3.67	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:41:08	14.03	4.25	7.29	14.71	3.29	2.51	
13:41:18	14.06	4.24	8.13	14.67	3.34	2.37	
13:41:28	14.05	4.24	8.40	14.56	3.50	2.09	
13:41:38	14.05	4.24	8.76	14.94	3.01	2.20	
13:41:48	14.05	4.24	8.39	14.50	3.50	2.95	
13:41:58	14.04	4.23	8.37	14.79	3.20	2.38	
13:42:08	14.06	4.23	8.69	14.53	3.57	2.38	
					[illegible]	[illegible]	Tap 2 - 3
13:42:18	14.07	4.22	9.58	13.43	4.50	2.26	
13:42:28	14.07	4.22	9.55	9.40	10.35	0.56	
13:42:38	14.07	4.23	9.68	13.67	4.51	2.25	
13:42:48	14.07	4.23	9.58	14.26	3.82	2.82	
13:42:58	14.06	4.24	9.34	13.92	4.30	2.37	
13:43:08	14.07	4.24	9.48	14.27	3.85	3.32	
13:43:18	14.06	4.25	9.79	14.28	3.85	10.71	
13:43:28	14.06	4.25	9.17	14.18	3.97	6.86	
13:43:38	14.05	4.24	9.46	14.18	3.96	3.58	
13:43:48	14.04	4.23	9.06	14.14	4.01	3.20	
13:43:58	14.06	4.23	9.66	14.36	3.74	2.85	
13:44:08	14.08	4.22	10.16	14.16	3.97	2.39	
					[illegible]	[illegible]	Tap 2 - 4
13:44:18	14.07	4.21	9.56	14.60	3.40	4.56	
13:44:28	14.08	4.20	9.70	6.27	13.40	2.71	
13:44:38	14.08	4.19	9.90	12.90	5.75	3.95	
13:44:48	14.10	4.18	10.21	14.66	3.24	6.31	
13:44:58	14.12	4.17	10.44	15.12	2.82	15.68	
13:45:08	14.12	4.17	9.75	15.47	2.38	14.78	
13:45:18	14.13	4.15	9.98	15.66	2.21	20.50	
13:45:28	14.14	4.14	10.59	15.63	2.22	34.33	
13:45:38	14.15	4.13	11.53	15.77	2.00	79.36	
13:45:48	14.15	4.12	12.27	15.49	2.35	24.68	
13:45:58	14.16	4.12	12.24	15.45	2.45	18.63	
13:46:08	14.17	4.11	12.91	15.33	2.59	16.29	
					[illegible]	[illegible]	Tap 3 - 1
13:46:18	14.16	4.12	13.28	14.98	2.84	13.88	
13:46:28	14.16	4.12	14.17	5.29	14.62	6.02	
13:46:38	14.17	4.12	13.55	13.71	4.71	9.87	
13:46:48	14.18	4.12	13.58	15.18	2.56	61.24	
13:46:58	14.17	4.13	13.93	15.72	2.13	17.40	
13:47:08	14.18	4.13	14.06	15.53	2.34	4.76	
13:47:18	14.17	4.14	13.80	15.52	2.33	3.08	
13:47:28	14.16	4.14	13.41	15.59	2.23	3.30	
13:47:38	14.15	4.14	14.01	15.56	2.35	4.40	
13:47:48	14.15	4.15	13.77	15.61	2.20	4.89	
13:47:58	14.16	4.15	13.97	15.56	2.33	3.47	
13:48:08	14.14	4.17	13.87	15.84	2.00	7.84	
					[illegible]	[illegible]	Tap 3 - 2
13:48:18	14.13	4.19	14.31	10.77	5.68	33.78	
13:48:28	14.11	4.20	13.39	9.57	11.49	4.96	
13:48:38	14.11	4.21	13.71	13.18	5.11	3.30	
13:48:48	14.11	4.23	13.19	13.82	4.43	2.50	
13:48:58	14.09	4.24	12.67	14.05	4.09	3.96	
13:49:08	14.08	4.25	12.48	14.33	3.70	14.25	
13:49:18	14.07	4.25	11.86	14.54	3.49	20.86	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:49:28	14.07	4.26	11.71	14.22	3.74	19.01	
13:49:38	14.07	4.27	11.92	13.98	4.21	10.76	
13:49:48	14.06	4.28	11.13	14.20	3.94	6.18	
13:49:58	14.02	4.29	10.63	14.50	3.45	90.60	
13:50:08	14.02	4.29	10.11	14.20	3.86	13.67	
							Tap 3 - 3
13:50:18	14.01	4.30	10.18	4.72	14.53	3.04	
13:50:28	14.01	4.32	9.68	11.92	7.04	1.59	
13:50:38	14.00	4.33	9.96	12.77	5.58	1.95	
13:50:48	14.00	4.35	9.36	13.23	5.05	3.93	
13:50:58	13.98	4.36	9.36	13.11	5.14	2.20	
13:51:08	13.97	4.36	9.39	13.10	5.17	1.57	
13:51:18	13.97	4.37	9.71	13.11	5.20	3.66	
13:51:28	13.97	4.37	9.81	12.90	5.36	1.75	
13:51:38	13.94	4.36	9.55	12.67	5.65	1.24	
13:51:48	13.96	4.35	9.30	12.67	5.77	1.47	
13:51:58	13.96	4.33	9.95	13.16	5.08	2.74	
							Tap 3 - 4
13:52:08	13.98	4.31	9.51	12.31	5.89	1.17	
13:52:18	13.98	4.29	9.37	1.51	18.82	-0.57	
13:52:28	14.00	4.26	9.98	0.38	20.83	-0.63	
13:52:38	14.02	4.24	10.00	5.68	17.05	0.21	
13:52:48	14.08	4.19	10.78	13.97	4.07	2.07	
13:52:58	14.06	4.15	10.27	14.28	3.59	1.72	
13:53:08	13.87	4.56	10.07	14.95	2.82	2.53	
13:53:18	13.65	4.70	9.49	14.59	3.26	2.22	
13:53:28	13.77	4.51	8.89	14.37	3.58	2.59	
13:53:38	13.95	4.33	9.11	14.53	3.48	2.12	
13:53:48	14.07	4.19	8.73	14.69	3.21	2.01	
13:53:58	14.14	4.08	8.22	14.89	2.97	2.21	
13:54:08	14.22	4.00	8.39	15.02	2.84	2.72	
							Tap 4 - 1
13:54:18	14.28	3.94	8.63	7.75	9.38	1.70	
13:54:28	14.32	3.88	8.35	13.53	5.01	7.11	
13:54:38	14.34	3.85	8.03	14.20	3.79	2.81	
13:54:48	14.41	3.83	7.88	14.46	3.56	2.18	
13:54:58	14.48	3.82	8.39	14.64	3.36	6.97	
13:55:08	14.47	3.81	8.57	15.00	2.88	9.45	
13:55:18	14.44	3.80	7.83	15.14	2.69	4.28	
13:55:28	14.44	3.78	8.57	14.72	3.15	2.49	
13:55:38	14.44	3.77	8.40	15.09	2.78	4.54	
13:55:48	14.45	3.76	8.94	15.04	2.89	3.58	
13:55:58	14.46	3.75	10.63	14.89	2.96	18.84	
13:56:08	14.45	3.73	12.60	14.91	3.03	3.28	
							Tap 4 - 2
13:56:18	14.47	3.71	14.65	5.48	13.72	1.21	
13:56:28	14.50	3.70	15.76	12.94	5.80	1.85	
13:56:38	14.50	3.68	15.40	13.77	4.38	2.10	
13:56:48	14.52	3.67	14.87	13.62	4.57	2.44	
13:56:58	14.52	3.66	13.17	13.88	4.29	1.89	
13:57:08	14.52	3.67	12.78	13.79	4.32	2.08	
13:57:18	14.54	3.66	11.85	13.51	4.73	1.42	
13:57:28	14.53	3.64	11.24	13.90	4.19	5.18	
13:57:38	14.57	3.58	10.22	13.62	4.55	2.16	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:57:48	14.60	3.52	9.70	13.69	4.57	1.90	
13:57:58	14.63	3.47	9.21	13.63	4.58	2.16	
13:58:08	14.69	3.44	9.34	13.73	4.51	2.48	
							Tap 4 - 3
13:58:18	14.70	3.41	9.19	7.12	10.92	1.24	
13:58:28	14.72	3.38	9.23	10.96	8.20	0.96	
13:58:38	14.75	3.35	9.55	12.08	6.46	1.47	
13:58:48	14.78	3.34	8.79	12.27	6.21	1.52	
13:58:58	14.80	3.34	9.28	11.89	6.60	1.90	
13:59:08	14.80	3.33	9.96	11.90	6.68	1.26	
13:59:18	14.79	3.32	9.19	12.04	6.46	1.50	
13:59:28	14.80	3.31	9.92	11.82	6.70	1.28	
13:59:38	14.82	3.30	9.82	11.89	6.61	1.09	
13:59:48	14.82	3.30	9.40	11.90	6.71	1.18	
13:59:58	14.81	3.30	10.18	12.35	6.08	1.53	
							Tap 4 - 4
14:00:08	14.80	3.30	9.23	9.75	7.76	0.67	
14:00:18	14.80	3.29	8.68	12.73	6.98	4.60	
14:00:28	14.82	3.28	9.47	14.70	3.22	3.21	
14:00:38	14.83	3.25	9.50	15.00	2.83	2.85	
14:00:48	14.86	3.23	8.87	15.16	2.70	3.22	
14:00:58	14.85	3.20	8.69	15.28	2.49	7.76	
14:01:08	14.89	3.18	10.55	14.97	2.94	4.12	
14:01:18	14.90	3.15	13.31	15.16	2.73	3.92	
14:01:28	14.92	3.14	15.97	14.72	3.19	3.56	
14:01:38	14.92	3.12	17.61	14.68	3.32	3.14	
14:01:48	14.93	3.12	17.61	15.07	2.83	3.66	
14:01:58	14.94	3.11	16.73	14.57	3.36	3.50	
14:02:08	14.96	3.11	16.17	14.88	3.15	3.30	
14:02:18	14.94	3.12	14.76	15.09	2.73	3.94	
							Tap 5 - 1
14:02:28	14.95	3.12	14.02	9.86	7.10	2.29	
14:02:38	14.94	3.13	13.02	12.76	6.72	3.29	
14:02:48	14.95	3.12	12.47	14.44	3.61	3.19	
14:02:58	14.96	3.10	13.98	14.74	3.16	2.91	
14:03:08	14.98	3.06	14.68	14.92	2.91	3.69	
14:03:18	14.99	3.02	14.98	15.09	2.80	4.14	
14:03:28	15.02	2.99	15.71	14.81	3.10	3.03	
14:03:38	15.05	2.97	16.15	14.80	3.20	9.60	
14:03:48	15.05	2.99	15.97	14.83	3.12	4.68	
14:03:58	15.04	3.03	15.17	14.85	2.98	2.31	
14:04:08	15.00	3.08	13.75	14.55	3.31	1.94	
							Tap 5 - 2
14:04:18	14.96	3.11	13.40	9.36	7.35	1.48	
14:04:28	14.96	3.12	13.58	12.30	7.09	1.44	
14:04:38	14.94	3.14	12.88	13.62	4.58	1.79	
14:04:48	14.91	3.15	12.12	14.10	3.94	2.23	
14:04:58	14.91	3.16	11.94	13.71	4.44	2.26	
14:05:08	14.91	3.17	12.39	13.83	4.30	4.60	
14:05:18	14.90	3.19	13.08	13.78	4.40	2.18	
14:05:28	14.88	3.23	12.45	13.88	4.18	1.73	
14:05:38	14.86	3.24	12.14	13.93	4.20	1.99	
14:05:48	14.86	3.24	13.14	14.21	3.85	3.75	
14:05:58	14.86	3.21	15.25	13.99	4.07	3.21	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
							Tap 5 - 3
14:06:08	14.87	3.19	18.35	14.39	3.53	3.75	
14:06:18	14.88	3.19	19.30	3.73	16.55	1.08	
14:06:28	14.87	3.21	18.79	12.62	6.09	4.04	
14:06:38	14.86	3.23	18.12	13.41	4.80	7.63	
14:06:48	14.85	3.26	17.64	13.21	4.97	7.75	
14:06:58	14.84	3.27	16.04	13.33	4.87	1.76	
14:07:08	14.83	3.26	15.32	13.14	5.04	1.76	
14:07:18	14.82	3.25	15.72	12.80	5.53	1.46	
14:07:28	14.84	3.23	14.84	13.26	5.04	3.10	
14:07:38	14.86	3.21	14.69	13.50	4.66	2.63	
14:07:48	14.88	3.20	14.06	13.46	4.74	3.48	
14:07:58	14.88	3.20	13.97	13.40	4.80	2.53	
							Tap 5 - 4
14:08:08	14.87	3.21	13.12	12.28	5.44	2.39	
14:08:18	14.86	3.24	12.22	10.74	9.72	2.15	
14:08:28	14.86	3.26	11.90	14.21	3.74	3.54	
14:08:38	14.85	3.26	11.87	14.79	3.18	2.53	
14:08:48	14.83	3.25	11.20	15.04	2.70	4.63	
14:08:58	14.84	3.23	10.36	14.54	3.39	3.05	
14:09:08	14.87	3.19	10.29	14.86	3.02	3.02	
14:09:18	14.90	3.17	10.32	14.76	3.12	2.71	
14:09:28	14.91	3.14	10.65	14.81	3.05	12.50	
14:09:38	14.93	3.12	10.82	14.62	3.23	39.37	
14:09:48	14.95	3.10	10.89	14.77	3.23	7.20	
14:09:58	14.96	3.09	11.40	15.18	2.68	3.69	
14:10:08	14.98	3.08	11.83	15.07	2.81	2.72	
							Tap 6 - 1
14:10:18	14.98	3.06	12.32	9.16	8.01	1.15	
14:10:28	14.99	3.04	12.74	12.65	6.65	1.64	
14:10:38	15.01	3.02	15.12	14.15	4.01	2.70	
14:10:48	15.01	3.02	16.74	14.63	3.32	15.63	
14:10:58	15.02	3.03	16.77	15.10	2.82	14.10	
14:11:08	15.01	3.06	16.53	14.46	3.48	7.19	
14:11:18	15.01	3.09	16.34	14.95	2.82	39.90	
14:11:28	14.96	3.12	15.82	14.57	3.40	8.07	
14:11:38	14.93	3.16	17.70	14.56	3.53	3.62	
14:11:48	14.89	3.20	19.23	14.75	3.24	6.54	
14:11:58	14.86	3.24	19.89	14.34	3.62	6.78	
14:12:08	14.84	3.27	20.24	14.63	3.36	2.91	
14:12:18	14.80	3.29	20.32	14.78	3.29	179.25	
							Tap 6 - 2
14:12:28	14.80	3.30	20.60	4.47	14.11	94.03	
14:12:38	14.80	3.33	20.50	12.69	6.15	36.89	
14:12:48	14.76	3.36	21.89	13.85	4.26	6.47	
14:12:58	14.74	3.38	23.91	14.16	3.91	4.06	
14:13:08	14.71	3.39	25.14	13.92	4.24	3.35	
14:13:18	14.72	3.40	25.88	14.57	3.41	18.61	
14:13:28	14.71	3.39	25.88	14.77	3.17	43.12	
14:13:38	14.72	3.39	25.18	14.01	4.00	9.40	
14:13:48	14.71	3.40	23.70	14.81	3.20	18.87	
14:13:58	14.70	3.40	24.22	14.23	3.74	3.51	
14:14:08	14.71	3.39	28.62	13.66	4.58	2.08	
							Tap 6 - 3

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:14:18	14.69	3.37	36.34	7.62	9.64	1.10	
14:14:28	14.69	3.34	43.73	10.58	9.35	0.46	
14:14:38	14.70	3.32	47.95	12.32	6.05	1.37	
14:14:48	14.71	3.30	48.59	13.11	5.21	1.83	
14:14:58	14.73	3.28	45.88	13.02	5.34	1.74	
14:15:08	14.78	3.25	41.40	13.36	4.74	1.40	
14:15:18	14.81	3.20	36.53	12.68	5.66	1.51	
14:15:28	14.83	3.17	31.71	13.36	4.90	2.91	
14:15:38	14.88	3.16	27.73	13.30	4.88	2.64	
14:15:48	14.89	3.16	23.93	13.10	5.11	1.90	
14:15:58	14.90	3.17	21.12	12.51	5.90	1.51	
14:16:08	14.87	3.18	19.28	12.86	5.48	1.37	
							Tap 6 - 4
14:16:18	14.87	3.20	17.46	2.94	16.80	0.46	
14:16:28	14.87	3.20	17.97	13.03	5.40	2.04	
14:16:38	14.86	3.20	19.48	13.70	4.38	2.14	
14:16:48	14.87	3.18	20.84	13.60	4.43	2.12	
14:16:58	14.88	3.13	21.53	13.59	4.56	2.00	
14:17:08	14.93	3.06	21.57	13.82	4.34	2.46	
14:17:18	15.00	2.99	22.89	14.22	3.76	2.61	
14:17:28	15.05	2.96	23.66	14.32	3.68	2.48	
14:17:38	15.05	2.97	23.46	14.42	3.54	5.47	
14:17:48	15.05	3.00	21.96	13.72	4.37	2.94	
14:17:58	15.02	3.04	19.75	14.22	3.84	3.20	
14:18:08	14.99	3.08	18.88	14.03	4.04	4.27	
14:18:18	14.98	3.10	17.34	14.10	3.96	2.23	
							Tap 7 - 1
14:18:28	14.96	3.13	15.87	2.52	17.48	0.38	
14:18:38	14.93	3.14	14.36	13.18	5.28	2.27	
14:18:48	14.91	3.15	13.44	14.04	4.03	2.58	
14:18:58	14.92	3.16	13.38	14.57	3.36	2.79	
14:19:08	14.90	3.18	13.47	14.71	3.24	3.83	
14:19:18	14.89	3.21	12.43	14.38	3.48	2.78	
14:19:28	14.86	3.24	11.39	14.06	4.03	2.12	
14:19:38	14.86	3.26	11.52	14.08	3.94	2.12	
14:19:48	14.86	3.26	11.46	13.78	4.39	1.93	
14:19:58	14.83	3.26	10.24	14.09	4.07	1.95	
14:20:08	14.83	3.25	10.57	13.96	3.96	2.08	
							Tap 7 - 2
14:20:18	14.82	3.25	9.27	2.91	16.33	0.78	
14:20:28	14.86	3.25	10.24	12.37	6.46	4.46	
14:20:38	14.84	3.26	10.08	13.05	5.20	2.14	
14:20:48	14.83	3.25	9.61	13.84	4.24	30.51	
14:20:58	14.83	3.24	9.60	13.62	4.52	3.26	
14:21:08	14.85	3.24	9.78	13.68	4.41	4.06	
14:21:18	14.86	3.23	10.61	13.73	4.36	5.34	
14:21:28	14.85	3.24	10.44	13.45	4.67	1.84	
14:21:38	14.67	3.25	9.32	13.31	4.87	1.96	
14:21:48	14.80	3.25	10.23	13.33	5.00	1.67	
14:21:58	14.83	3.24	10.18	14.01	4.11	2.59	
14:22:08	14.84	3.23	10.68	13.53	4.61	2.40	
							Tap 7 - 3
14:22:18	14.85	3.23	10.20	9.12	7.75	1.80	
14:22:28	14.80	3.23	10.16	9.35	11.14	0.50	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:22:38	14.83	3.15	11.70	11.99	6.48	1.78	
14:22:48	14.81	3.07	11.60	12.59	5.83	1.76	
14:22:58	14.91	3.11	12.51	12.75	5.56	1.58	
14:23:08	14.86	3.20	12.93	12.56	5.82	1.48	
14:23:18	14.83	3.24	11.68	12.74	5.71	29.19	
14:23:28	14.81	3.28	11.25	12.71	5.60	27.82	
14:23:38	14.77	3.31	11.02	12.81	5.53	2.58	
14:23:48	14.79	3.29	11.83	12.57	5.77	1.90	
14:23:58	14.80	3.26	12.95	12.66	5.63	2.15	
14:24:08	14.82	3.24	14.58	12.76	5.52	2.37	
					[illegible]	[illegible]	Tap 7 - 4
14:24:18	14.84	3.19	16.82	1.38	18.97	0.57	
14:24:28	14.88	3.14	20.05	0.33	20.83	-0.26	
14:24:38	14.91	3.09	23.25	0.27	20.90	-0.36	
14:24:48	14.95	3.05	27.53	12.74	5.77	2.75	
14:24:58	14.96	3.01	32.29	13.53	4.48	3.57	
14:25:08	14.99	2.97	35.55	13.43	4.65	3.33	
14:25:18	15.01	2.96	39.54	13.57	4.50	2.69	
14:25:28	15.00	2.95	46.18	13.90	4.09	2.85	
14:25:38	15.00	2.92	52.07	13.82	4.24	3.41	
14:25:48	14.99	2.93	53.62	13.76	4.34	2.92	
14:25:58	14.99	2.96	52.78	14.00	3.99	2.72	
14:26:08	14.97	2.98	49.63	13.97	4.11	2.38	
					[illegible]	[illegible]	Tap 8 - 1
14:26:18	14.95	3.01	47.35	5.03	14.94	2.52	
14:26:28	14.93	3.04	43.71	13.22	4.90	4.07	
14:26:38	14.91	3.09	39.29	14.09	3.81	11.27	
14:26:48	14.88	3.16	35.57	14.27	3.68	15.60	
14:26:58	14.85	3.20	32.02	14.11	3.96	2.44	
14:27:08	14.82	3.24	28.61	14.51	3.44	2.12	
14:27:18	14.80	3.26	26.16	13.87	3.92	3.51	
					[illegible]	[illegible]	Tap 8 - 2
14:27:28	14.78	3.29	23.95	10.72	9.65	3.23	
14:27:38	14.78	3.31	21.58	13.40	4.78	5.08	
14:27:48	14.78	3.31	20.26	13.69	4.40	2.56	
14:27:58	14.77	3.30	18.71	13.37	4.80	4.96	
14:28:08	14.78	3.28	17.81	13.80	4.28	4.85	
14:28:18	14.81	3.25	17.08	13.23	5.03	2.65	
14:28:28	14.84	3.23	16.73	13.63	4.50	2.05	
					[illegible]	[illegible]	Tap 8 - 3
14:28:38	14.84	3.21	16.73	6.74	15.05	0.61	
14:28:48	14.85	3.20	16.41	13.06	5.22	2.64	
14:28:58	14.84	3.20	16.46	13.34	4.83	18.20	
14:29:08	14.86	3.21	16.50	13.22	4.95	3.14	
14:29:18	14.84	3.23	16.15	13.17	5.11	4.11	
14:29:28	14.82	3.26	15.41	13.11	5.13	2.26	
14:29:38	14.79	3.29	13.27	12.89	5.42	1.89	
					[illegible]	[illegible]	Tap 8 - 4
14:29:48	14.77	3.32	12.78	6.42	14.64	5.57	
14:29:58	14.75	3.33	12.23	13.71	4.60	5.17	
14:30:08	14.76	3.34	12.16	13.93	4.17	3.58	
14:30:18	14.73	3.35	11.67	14.40	3.66	13.58	
14:30:28	14.72	3.36	11.17	14.00	4.01	3.85	
14:30:38	14.69	3.37	10.72	14.12	3.87	3.49	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:30:48	14.72	3.37	10.92	14.27	3.82	3.40	
					[illegible]	[illegible]	Tap 9 - 1
14:30:58	14.73	3.36	10.58	5.76	12.07	1.88	
14:31:08	14.75	3.33	10.68	14.22	3.84	6.09	
14:31:18	14.79	3.29	10.35	14.23	3.81	7.76	
14:31:28	14.78	3.26	10.56	13.99	4.06	2.75	
14:31:38	14.83	3.24	11.15	14.40	3.60	3.71	
14:31:48	14.84	3.21	10.85	14.37	3.58	5.23	
					[illegible]	[illegible]	Tap 9 - 2
14:31:58	14.85	3.19	11.18	7.65	9.18	1.41	
14:32:08	14.87	3.17	11.27	13.37	5.09	3.99	
14:32:18	14.88	3.15	11.58	14.59	3.24	114.21	
14:32:28	14.89	3.14	11.70	14.33	3.63	27.38	
14:32:38	14.90	3.12	13.88	14.89	2.70	1102.96	
14:32:48	14.92	3.08	20.07	14.82	2.97	278.82	
14:32:58	14.93	3.03	28.86	14.20	3.73	53.91	
14:33:08	14.97	3.00	34.45	14.18	3.62	28.86	
					[illegible]	[illegible]	Tap 9 - 3
14:33:18	14.99	2.98	36.00	3.51	17.45	9.40	
14:33:28	14.98	2.99	35.01	13.28	4.93	9.16	
14:33:38	14.98	3.01	33.00	13.63	4.48	6.80	
14:33:48	14.96	3.04	31.21	13.88	4.14	35.82	
14:33:58	14.95	3.05	29.75	13.74	4.38	9.36	
14:34:08	14.95	3.07	28.54	13.51	4.68	3.54	
14:34:18	14.94	3.08	26.10	13.65	4.50	6.82	
					[illegible]	[illegible]	Tap 9 - 4
14:34:28	14.93	3.09	24.63	6.90	14.57	9.98	
14:34:38	14.95	3.08	22.61	13.69	4.34	11.74	
14:34:48	14.96	3.08	21.21	14.30	3.69	3.90	
14:34:58	14.97	3.05	20.58	14.45	3.48	2.75	
14:35:08	14.97	3.04	20.65	14.48	3.46	10.74	
14:35:18	14.98	3.04	20.90	14.69	3.18	4.73	
14:35:28	14.98	3.06	20.11	14.35	3.64	5.36	
14:35:38	14.97	3.07	19.00	13.70	4.09	3.59	
					[illegible]	[illegible]	Tap 10 - 1
14:35:48	14.96	3.09	17.88	9.79	10.40	1.51	
14:35:58	14.94	3.09	17.08	13.77	4.32	4.53	
14:36:08	14.95	3.10	15.98	14.21	3.89	5.96	
14:36:18	14.92	3.10	15.82	14.55	3.42	3.43	
14:36:28	14.94	3.11	15.51	13.96	4.05	2.87	
14:36:38	14.94	3.10	14.48	13.69	4.45	6.50	
14:36:48	14.94	3.09	14.67	13.87	4.25	10.61	
					[illegible]	[illegible]	Tap 10 - 2
14:36:58	14.96	3.08	14.96	9.12	8.76	2.69	
14:37:08	14.96	3.09	15.07	13.07	5.52	10.14	
14:37:18	14.94	3.11	14.78	14.31	3.60	38.56	
14:37:28	14.93	3.11	14.01	14.50	3.44	12.03	
14:37:38	14.93	3.10	13.45	14.53	3.42	5.56	
14:37:48	14.94	3.09	13.60	14.42	3.55	2.93	
14:37:58	14.95	3.09	13.31	14.37	3.64	2.41	
					[illegible]	[illegible]	Tap 10 - 3
14:38:08	14.94	3.09	13.98	8.93	8.65	0.93	
14:38:18	14.94	3.07	17.62	11.86	7.11	1.52	
14:38:28	14.95	3.05	21.67	13.89	4.19	30.52	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:38:38	14.97	3.03	24.41	14.42	3.44	169.56	
14:38:48	14.96	3.03	25.06	14.06	3.98	38.71	
14:38:58	14.96	3.04	23.76	14.63	3.17	86.72	
14:39:08	14.96	3.05	22.15	14.31	3.65	38.43	
					[illegible]	[illegible]	Tap 10 - 4
14:39:18	14.94	3.07	20.94	10.18	7.43	5.85	
14:39:28	14.93	3.11	20.42	12.17	6.72	6.06	
14:39:38	14.91	3.14	19.84	13.67	4.37	5.67	
14:39:48	14.89	3.13	18.99	13.95	4.10	3.86	
14:39:58	14.89	3.13	18.63	14.34	3.64	3.45	
14:40:08	14.90	3.13	18.93	14.28	3.72	4.38	
14:40:18	14.91	3.13	19.70	14.49	3.53	13.08	
					[illegible]	[illegible]	Tap 11 - 1
14:40:28	14.90	3.13	20.45	9.14	8.95	14.74	
14:40:38	14.88	3.12	20.32	12.78	5.90	24.02	
14:40:48	14.89	3.12	20.21	13.66	4.47	10.42	
14:40:58	14.91	3.13	20.99	14.72	3.17	98.67	
14:41:08	14.91	3.13	20.38	14.24	3.73	46.84	
14:41:18	14.90	3.15	19.74	14.28	3.71	6.08	
14:41:28	14.88	3.16	18.77	14.36	3.63	3.08	
					[illegible]	[illegible]	Tap 11 - 2
14:41:38	14.86	3.18	17.77	12.64	4.92	3.37	
14:41:48	14.85	3.21	17.66	8.24	12.87	1.55	
14:41:58	14.82	3.25	16.30	13.47	4.61	5.44	
14:42:08	14.79	3.28	15.69	14.50	3.48	7.43	
14:42:18	14.74	3.31	14.20	14.73	3.17	9.28	
14:42:28	14.69	3.32	13.23	14.79	3.07	39.95	
14:42:38	14.74	3.32	13.55	14.81	3.09	49.31	
14:42:48	14.78	3.30	13.94	14.73	3.22	33.80	
					[illegible]	[illegible]	Tap 11 - 3
14:42:58	14.78	3.29	13.74	9.93	7.90	20.56	
14:43:08	14.79	3.28	14.06	12.90	5.64	21.53	
14:43:18	14.79	3.29	16.09	13.68	4.52	13.00	
14:43:28	14.78	3.30	18.60	14.17	3.94	11.18	
14:43:38	14.80	3.29	20.56	14.52	3.47	13.46	
14:43:48	14.79	3.28	20.73	14.33	3.70	11.81	
14:43:58	14.81	3.25	20.24	13.94	4.12	4.23	
14:44:08	14.83	3.23	19.19	13.81	4.37	6.40	
14:44:18	14.85	3.22	18.74	13.75	4.43	10.46	
					[illegible]	[illegible]	Tap 11 - 4
14:44:28	14.86	3.21	18.41	6.28	13.41	3.88	
14:44:38	14.86	3.20	18.61	1.12	19.81	0.48	
14:44:48	14.88	3.16	22.27	0.87	20.49	0.18	
14:44:58	14.90	3.12	29.41	11.04	7.89	1.67	
14:45:08	14.92	3.08	37.57	12.56	5.55	3.30	
14:45:18	14.94	3.05	42.19	13.31	4.85	5.78	
14:45:28	14.96	3.03	42.14	13.72	4.35	34.89	
14:45:38	14.95	3.05	39.96	13.82	4.23	22.53	
14:45:48	14.92	3.09	37.57	14.15	3.88	10.88	
14:45:58	14.91	3.14	34.52	14.30	3.63	6.15	
14:46:08	14.89	3.18	30.35	13.92	4.13	4.44	
14:46:18	14.86	3.20	28.41	14.21	3.92	3.18	
14:46:28	14.83	3.22	30.32	13.32	4.18	4.05	
					[illegible]	[illegible]	Tap 12 - 1

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:46:38	14.82	3.23	35.31	5.23	16.88	0.62	
14:46:48	14.81	3.26	37.70	14.07	4.01	2.77	
14:46:58	14.76	3.30	37.15	14.48	3.36	7.74	
14:47:08	14.74	3.33	35.09	14.71	3.22	4.87	
14:47:18	14.73	3.34	33.29	14.82	2.94	19.68	
14:47:28	14.76	3.33	32.64	14.59	3.27	10.56	
					[illegible]	[illegible]	Tap 12 - 2
14:47:38	14.77	3.30	33.22	6.06	11.42	6.81	
14:47:48	14.79	3.30	31.59	11.27	8.83	15.62	
14:47:58	14.75	3.33	29.83	14.36	3.63	9.97	
14:48:08	14.73	3.39	27.05	14.63	3.30	4.41	
14:48:18	14.69	3.45	25.16	14.76	3.09	16.44	
14:48:28	14.62	3.50	22.77	14.87	2.86	29.85	
					[illegible]	[illegible]	Tap 12 - 3
14:48:38	14.60	3.52	20.37	12.90	4.33	4.65	
14:48:48	14.61	3.51	18.50	8.34	13.01	15.25	
14:48:58	14.63	3.50	17.67	13.57	4.61	34.12	
14:49:08	14.65	3.48	16.54	14.05	3.90	172.95	
14:49:18	14.66	3.44	15.39	14.05	3.79	97.80	
14:49:28	14.67	3.43	14.56	13.84	4.31	11.36	
14:49:38	14.69	3.42	14.38	13.96	4.06	19.41	
14:49:48	14.67	3.44	13.21	13.48	4.46	4.96	
					[illegible]	[illegible]	Tap 12 - 4
14:49:58	14.67	3.43	12.78	10.17	10.39	1.17	
14:50:08	14.68	3.41	12.44	13.90	4.12	4.75	
14:50:18	14.71	3.38	13.47	14.58	3.41	13.54	
14:50:28	14.73	3.34	14.17	14.55	3.40	13.00	
14:50:38	14.76	3.33	14.64	14.70	3.21	8.09	
14:50:48	14.77	3.32	14.29	14.54	3.43	38.08	
14:50:58	14.76	3.32	13.90	14.64	3.28	25.96	
					[illegible]	[illegible]	Tap 13 - 1
14:51:08	14.76	3.30	13.52	8.77	11.29	4.55	
14:51:18	14.77	3.29	13.15	14.27	3.71	4.13	
14:51:28	14.80	3.27	13.36	14.69	3.25	3.71	
14:51:38	14.81	3.25	14.14	14.67	3.29	3.34	
14:51:48	14.84	3.22	13.27	14.85	2.99	4.25	
14:51:58	14.83	3.21	14.02	14.85	3.02	3.75	
					[illegible]	[illegible]	Tap 13 - 2
14:52:08	14.84	3.22	14.16	7.35	12.49	9.80	
14:52:18	14.82	3.24	14.02	14.43	3.69	12.82	
14:52:28	14.80	3.28	14.03	14.82	3.02	12.20	
14:52:38	14.77	3.31	13.25	15.40	2.52	10.43	
14:52:48	14.76	3.34	13.55	15.61	1.97	298.56	
14:52:58	14.75	3.37	13.63	14.84	3.02	45.68	
14:53:08	14.73	3.42	14.09	15.04	2.91	6.00	
14:53:18	14.69	3.46	13.75	15.32	2.52	11.19	
14:53:28	14.65	3.49	12.91	15.28	2.45	57.19	
14:53:38	14.63	3.51	12.26	14.04	3.18	76.30	
					[illegible]	[illegible]	Tap 13 - 3
14:53:48	14.61	3.53	12.61	9.94	11.33	24.19	
14:53:58	14.61	3.54	12.35	14.59	3.29	33.71	
14:54:08	14.60	3.54	12.28	14.91	2.92	18.97	
14:54:18	14.60	3.55	11.73	15.09	2.73	9.84	
14:54:28	14.58	3.56	11.45	15.15	2.68	40.48	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:54:38	14.57	3.57	11.45	15.25	2.49	19.51	
					[illegible]	[illegible]	Tap 13 - 4
14:54:48	14.59	3.56	11.88	9.49	7.19	9.02	
14:54:58	14.58	3.55	12.17	13.00	6.13	4.84	
14:55:08	14.61	3.52	12.50	14.15	3.76	6.52	
14:55:18	14.63	3.48	12.03	14.63	3.33	3.30	
14:55:28	14.66	3.45	12.05	14.47	3.42	2.72	
14:55:38	14.67	3.44	12.27	14.47	3.50	3.58	
14:55:48	14.68	3.45	12.53	14.61	3.34	3.45	
					[illegible]	[illegible]	Tap 14 - 1
14:55:58	14.67	3.46	13.00	6.02	14.37	3.11	
14:56:08	14.67	3.45	13.59	13.33	4.86	4.31	
14:56:18	14.66	3.45	14.00	14.26	3.86	3.57	
14:56:28	14.65	3.45	14.94	14.39	3.53	3.92	
14:56:38	14.64	3.45	15.15	14.64	3.28	11.30	
14:56:48	14.66	3.47	15.70	14.67	3.25	7.90	
14:56:58	14.65	3.47	15.92	13.86	3.51	4.86	
					[illegible]	[illegible]	Tap 14 - 2
14:57:08	14.64	3.48	15.02	9.72	11.50	12.60	
14:57:18	14.64	3.48	15.49	14.21	3.80	5.13	
14:57:28	14.66	3.48	15.68	14.99	2.90	4.28	
14:57:38	14.65	3.48	15.30	15.28	2.51	6.25	
14:57:48	14.65	3.48	14.94	14.64	3.25	8.09	
14:57:58	14.66	3.47	14.23	14.35	3.69	11.22	
14:58:08	14.66	3.45	12.93	14.72	3.05	4.95	
					[illegible]	[illegible]	Tap 14 - 3
14:58:18	14.67	3.43	13.22	11.11	9.22	28.39	
14:58:28	14.70	3.41	13.52	14.61	3.20	284.20	
14:58:38	14.73	3.37	13.86	14.62	3.22	101.63	
14:58:48	14.74	3.33	14.18	14.58	3.31	44.44	
14:58:58	14.76	3.29	14.98	14.70	3.22	13.78	
14:59:08	14.79	3.27	16.09	14.77	3.03	10.90	
14:59:18	14.80	3.26	16.39	14.77	3.19	4.96	
14:59:28	14.80	3.27	16.30	14.25	3.40	8.69	
					[illegible]	[illegible]	Tap 14 - 4
14:59:38	14.78	3.28	15.62	1.03	19.29	0.00	
14:59:48	14.77	3.28	15.27	0.54	20.57	-0.36	
14:59:58	14.75	3.30	14.71	0.58	20.62	-0.01	
15:00:08	14.75	3.32	15.94	0.60	20.66	0.24	
15:00:18	14.75	3.31	19.64	0.57	20.68	0.31	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
Sensor Name	CO2_101	O2_101	CO_101	CO2_102	O2_102	CO_102
15:03:43	14.73	3.36	21.27	14.06	4.04	15.29
15:04:03	14.65	3.45	18.82	14.14	3.94	24.26
15:04:23	14.61	3.52	16.46	14.18	3.88	24.48
15:04:43	14.60	3.53	15.19	14.24	3.86	23.22
15:05:03	14.61	3.53	14.63	14.19	3.88	29.12
15:05:23	14.58	3.53	13.44	14.15	3.91	37.20
15:05:43	14.61	3.49	13.86	14.16	3.89	36.32
15:06:03	14.62	3.48	13.49	14.16	3.89	32.13

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
15:06:23	14.62	3.48	13.23	14.21	3.87	29.23
15:06:43	14.66	3.45	13.25	14.18	3.89	23.73
15:07:03	14.62	3.47	12.84	14.16	3.90	22.27
15:07:23	14.58	3.49	12.15	14.21	3.86	28.02
15:07:43	14.58	3.54	13.27	14.21	3.85	26.09
15:08:03	14.51	3.58	11.75	14.18	3.87	20.34
15:08:23	14.52	3.61	12.11	14.18	3.89	14.99
15:08:43	14.49	3.63	11.69	14.16	3.91	11.73
15:09:03	14.46	3.68	11.85	14.15	3.93	14.26
15:09:23	14.44	3.72	11.76	14.12	3.96	21.94
15:09:43	14.42	3.73	11.44	14.11	4.00	22.82
15:10:03	14.43	3.73	11.94	14.08	4.02	18.45
15:10:23	14.43	3.73	12.27	14.06	4.06	13.55
15:10:43	14.44	3.73	12.11	14.05	4.10	10.22
15:11:03	14.43	3.72	12.21	14.03	4.09	9.82
15:11:23	14.45	3.69	11.93	14.08	4.04	12.13
15:11:43	14.48	3.67	12.46	14.08	4.03	14.85
15:12:03	14.49	3.64	11.66	14.11	3.99	16.80
15:12:23	14.50	3.64	11.47	14.13	3.94	16.15
15:12:43	14.49	3.63	11.85	14.13	3.93	16.58
15:13:03	14.50	3.62	11.85	14.12	3.94	17.27
15:13:23	14.54	3.60	12.47	14.11	3.95	15.02
15:13:43	14.54	3.53	11.47	14.09	3.99	11.64
15:14:03	14.60	3.50	11.99	14.03	4.04	9.08
15:14:23	14.59	3.48	11.80	14.04	4.04	6.82
15:14:43	14.62	3.46	12.05	14.10	4.00	7.52
15:15:03	14.66	3.41	12.43	14.12	3.95	7.21
15:15:23	14.69	3.38	12.04	14.15	3.93	7.26
15:15:43	14.72	3.37	13.29	14.12	3.95	6.37
15:16:03	14.70	3.39	13.14	14.11	3.96	6.14
15:16:23	14.66	3.45	12.85	14.12	3.96	6.50
15:16:43	14.63	3.48	12.41	14.07	3.99	6.18
15:17:03	14.66	3.44	15.12	14.09	4.00	10.12
15:17:23	14.75	3.33	18.91	14.07	4.02	9.97
15:17:43	14.78	3.28	18.50	14.03	4.04	8.96
15:18:03	14.79	3.29	17.55	14.05	4.04	9.32
15:18:23	14.74	3.34	16.13	14.02	4.05	8.35
15:18:43	14.69	3.41	14.80	14.05	4.04	7.40
15:19:03	14.64	3.49	14.44	14.00	4.06	5.20
15:19:23	14.61	3.49	13.04	14.01	4.06	4.43
15:19:43	14.64	3.48	12.80	14.04	4.04	4.35
15:20:03	14.62	3.51	12.69	14.02	4.04	4.70
15:20:23	14.60	3.51	12.44	14.06	4.00	5.15
15:20:43	14.60	3.51	12.28	14.08	3.95	5.19
15:21:03	14.58	3.51	11.67	14.13	3.92	6.38
15:21:23	14.60	3.51	12.03	14.14	3.92	8.42
15:21:43	14.60	3.50	11.64	14.12	3.92	8.57
15:22:03	14.60	3.48	11.71	14.15	3.89	10.69
15:22:23	14.62	3.46	11.92	14.22	3.80	19.21
15:22:43	14.67	3.41	13.32	14.29	3.76	22.19
15:23:03	14.69	3.38	15.17	14.31	3.70	21.09
15:23:23	14.70	3.36	14.30	14.32	3.70	18.05
15:23:43	14.69	3.39	14.94	14.30	3.74	13.83
15:24:03	14.69	3.40	14.02	14.20	3.86	9.15

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:24:23	14.67	3.42	13.79	14.13	3.97	7.04	
15:24:43	14.66	3.47	13.86	14.04	4.06	5.16	
15:25:03	14.57	3.55	12.84	14.04	4.07	5.57	
15:25:23	14.49	3.65	13.02	14.06	4.05	6.13	
15:25:43	14.45	3.69	12.69	14.05	4.03	5.65	
15:26:03	14.44	3.70	12.35	14.06	4.01	5.84	
15:26:23	14.43	3.72	12.93	14.10	3.96	6.16	
15:26:43	14.45	3.69	12.21	14.20	3.85	13.60	
15:27:03	14.50	3.63	13.19	14.25	3.76	36.41	
15:27:23	14.58	3.51	13.66	14.30	3.66	49.66	
15:27:43	14.65	3.42	14.44	14.36	3.63	45.17	
15:28:03	14.72	3.33	17.21	14.34	3.63	36.42	
15:28:23	14.78	3.24	21.99	14.35	3.66	34.41	
15:28:43	14.84	3.16	33.60	14.31	3.68	30.88	
15:29:03	14.86	3.12	41.37	14.32	3.69	24.47	
15:29:23	14.86	3.13	39.30	14.34	3.69	18.39	
15:29:43	14.79	3.19	34.08	14.31	3.71	15.19	
average	14.64	3.49	12.21	14.24	3.85	22.00	Test 20
minimum	14.36	3.12	5.42	14.00	3.57	4.35	
maximum	14.87	3.87	41.37	14.52	4.10	73.53	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
9:45:00	11.09	4.25	253.89	5.76	14.26	337.76	Test 21
9:45:10	11.10	4.26	249.03	2.55	17.92	180.02	
9:45:20	11.09	4.26	244.13	1.01	19.71	83.00	
9:45:30	11.09	4.26	242.51	0.46	20.40	43.45	
9:45:40	11.09	4.27	239.00	0.21	20.70	22.56	
9:45:50	11.09	4.28	238.60	0.11	20.87	12.26	
9:46:00	11.11	4.30	238.75	0.05	20.95	7.48	
9:46:10	11.15	4.31	237.55	0.09	20.89	5.90	
9:46:20	11.11	4.31	237.57	2.33	17.93	15.88	
9:46:30	11.08	4.33	238.67	8.01	10.64	58.72	
9:46:40	11.06	4.36	235.85	11.37	6.69	146.62	
9:46:50	11.05	4.37	234.61	12.82	5.02	212.67	
9:47:00	0.21	0.10	268.62	13.41	4.35	210.54	
9:47:10	0.27	0.00	6.80	13.69	4.10	174.75	
9:47:20	0.27	0.00	5.60	14.32	3.56	137.65	
9:47:30	0.26	0.00	5.48	14.80	3.02	120.99	
9:47:40	0.27	0.00	5.42	15.07	2.76	117.73	
9:47:50	0.26	0.00	4.42	15.26	2.61	111.97	
9:48:00	0.27	0.00	4.52	15.06	2.81	101.19	
9:48:10	0.25	0.00	4.09	15.44	2.56	33.87	
9:48:20	0.25	0.00	4.42	15.37	2.57	44.34	
9:48:30	0.00	0.00	1.31	15.46	2.53	49.35	
					[illegible]	[illegible]	Tap 1 - 1
9:48:40	0.01	-0.01	902.14	9.85	7.92	47.72	
9:48:50	0.01	0.00	990.68	11.97	7.41	39.71	
9:49:00	-0.01	0.00	998.88	13.93	4.31	28.49	
9:49:10	-0.01	0.00	998.73	14.80	3.34	14.40	
9:49:20	-0.01	-0.01	1000.85	15.52	2.40	50.16	
9:49:30	6.48	0.00	943.35	15.79	2.00	483.79	
9:49:40	9.67	3.87	317.40	15.75	2.03	380.05	
9:49:50	10.29	4.34	219.17	15.79	1.99	346.30	
9:50:00	10.57	4.60	193.62	15.75	2.10	252.39	
9:50:10	10.56	4.74	165.75	15.84	1.97	315.68	
					[illegible]	[illegible]	Tap 1 - 2
9:50:20	10.52	4.80	143.29	13.28	3.74	593.71	
9:50:30	10.48	4.86	110.50	4.88	15.83	174.44	
9:50:40	10.46	4.89	74.45	13.03	5.64	604.41	
9:50:50	10.46	4.89	49.97	14.28	3.79	330.94	
9:51:00	10.47	4.88	40.89	15.06	2.81	216.16	
9:51:10	10.46	4.88	39.36	14.80	3.12	139.82	
9:51:20	10.48	4.87	40.58	15.27	2.50	770.10	
9:51:30	10.47	4.89	42.52	15.06	2.78	411.96	
9:51:40	10.48	4.89	46.34	15.43	2.26	1227.52	
9:51:50	10.46	4.91	50.24	15.07	2.71	973.34	
					[illegible]	[illegible]	Tap 1 - 3
9:52:00	10.45	4.93	54.48	8.32	9.73	263.31	
9:52:10	10.43	4.94	57.51	11.86	7.15	436.26	
9:52:20	10.41	4.96	59.60	14.13	3.88	501.35	
9:52:30	10.41	4.97	59.82	14.74	3.26	311.18	
9:52:40	10.39	4.97	60.14	15.11	2.68	754.39	
9:52:50	10.39	4.98	59.25	14.62	3.27	326.57	
9:53:00	10.39	4.98	58.10	14.46	3.56	113.43	
9:53:10	10.40	4.97	56.40	14.56	3.45	191.24	
					[illegible]	[illegible]	Tap 1 - 4

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
9:53:20	10.39	4.98	55.46	13.94	4.16	60.56	
9:53:30	10.40	4.99	53.77	8.95	8.72	146.71	
9:53:40	10.40	5.00	51.93	10.82	8.52	44.06	
9:53:50	10.38	5.02	49.60	14.01	4.28	26.63	
9:54:00	10.40	5.03	48.15	15.06	2.91	44.98	
9:54:10	10.40	5.04	45.55	15.16	2.69	91.73	
9:54:20	10.39	5.04	44.51	15.25	2.63	310.49	
9:54:30	10.41	5.05	41.89	15.20	2.66	230.15	
9:54:40	10.40	5.06	39.63	14.97	2.94	63.22	
9:54:50	10.39	5.07	37.42	15.37	2.53	206.33	
					[illegible]	[illegible]	Tap 2 - 1
9:55:00	10.39	5.09	34.20	11.17	6.40	147.89	
9:55:10	10.38	5.11	32.34	7.37	13.56	141.97	
9:55:20	10.38	5.12	30.16	14.12	4.13	198.30	
9:55:30	10.38	5.11	29.19	15.67	2.10	451.87	
9:55:40	10.37	5.08	29.02	16.16	1.43	928.94	
9:55:50	10.39	5.07	30.51	16.18	1.50	417.62	
9:56:00	10.39	5.05	32.02	16.27	1.29	758.68	
9:56:10	10.40	5.04	34.55	16.13	1.63	431.86	
9:56:20	10.42	5.03	36.83	16.04	1.81	124.79	
					[illegible]	[illegible]	Tap 2 - 2
9:56:30	10.41	5.03	37.99	14.25	2.90	87.22	
9:56:40	10.41	5.04	40.18	9.29	11.08	271.46	
9:56:50	10.40	5.03	41.86	14.85	3.13	1175.50	
9:57:00	10.39	5.03	44.36	15.86	1.80	1201.95	
9:57:10	10.40	5.03	46.35	16.24	1.32	1227.74	
9:57:20	10.40	5.03	48.63	16.51	0.96	1227.80	
9:57:30	10.40	5.04	47.97	16.61	0.82	1227.82	
9:57:40	10.39	5.07	47.18	16.19	1.30	1227.84	
9:57:50	10.37	5.09	45.40	16.15	1.36	1227.82	
					[illegible]	[illegible]	Tap 2 - 3
9:58:00	10.36	5.11	42.21	14.96	2.24	1227.85	
9:58:10	10.36	5.12	39.63	10.19	9.22	953.15	
9:58:20	10.35	5.14	37.16	14.12	4.08	433.27	
9:58:30	10.36	5.15	34.48	15.00	2.88	327.45	
9:58:40	10.36	5.14	32.49	15.10	2.74	328.39	
9:58:50	10.35	5.15	30.90	14.97	2.90	469.15	
9:59:00	10.34	5.15	31.52	14.90	2.99	209.06	
9:59:10	10.33	5.15	33.62	15.29	2.51	757.11	
9:59:20	10.33	5.14	36.26	15.41	2.25	1227.59	
					[illegible]	[illegible]	Tap 2 - 4
9:59:30	10.34	5.13	40.65	11.51	5.71	765.12	
9:59:40	10.35	5.12	43.98	12.40	6.55	495.96	
9:59:50	10.34	5.11	45.29	14.81	3.16	433.47	
10:00:00	10.35	5.11	46.49	15.59	2.17	562.02	
10:00:10	10.36	5.10	46.44	15.39	2.38	296.28	
10:00:20	10.36	5.09	46.11	15.22	2.62	104.75	
10:00:30	10.37	5.08	45.30	15.11	2.82	125.31	
10:00:40	10.38	5.07	45.31	15.21	2.67	248.74	
					[illegible]	[illegible]	Tap 3 - 1
10:00:50	10.38	5.06	44.78	11.17	6.15	203.68	
10:01:00	10.38	5.06	45.71	12.69	6.24	135.87	
10:01:10	10.38	5.06	47.03	15.23	2.77	142.72	
10:01:20	10.38	5.06	48.53	15.79	1.98	130.64	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:01:30	10.37	5.06	51.62	15.63	2.18	92.07	
10:01:40	10.37	5.05	54.26	15.71	2.06	190.91	
10:01:50	10.37	5.05	56.94	15.78	1.97	455.71	
10:02:00	10.38	5.05	57.77	15.68	2.16	271.26	
					[illegible]	[illegible]	Tap 3 - 2
10:02:10	10.38	5.04	57.84	13.16	3.90	246.23	
10:02:20	10.39	5.04	57.52	11.52	7.66	364.74	
10:02:30	10.38	5.03	57.78	13.74	4.54	152.42	
10:02:40	10.39	5.02	57.45	14.38	3.67	85.99	
10:02:50	10.39	5.01	57.09	14.83	3.08	530.95	
10:03:00	10.40	5.01	57.88	15.04	2.68	628.81	
10:03:10	10.40	4.99	59.02	14.91	2.96	254.72	
10:03:20	10.41	4.99	61.60	15.27	2.56	505.35	
10:03:30	10.40	4.98	64.63	15.02	2.78	356.54	
					[illegible]	[illegible]	Tap 3 - 3
10:03:40	10.40	4.98	68.57	10.23	7.38	519.85	
10:03:50	10.39	4.98	71.48	10.90	8.34	297.83	
10:04:00	10.39	4.99	72.42	13.26	5.01	289.57	
10:04:10	10.34	5.00	69.06	13.31	4.85	99.17	
10:04:20	10.37	5.02	66.91	13.62	4.61	322.25	
10:04:30	10.39	5.02	63.04	13.75	4.37	201.54	
10:04:40	10.39	5.00	61.60	13.37	4.85	49.31	
10:04:50	10.39	5.00	61.51	13.39	4.79	97.33	
					[illegible]	[illegible]	Tap 3 - 4
10:05:00	10.39	5.00	62.32	7.96	9.81	31.98	
10:05:10	10.37	5.02	65.99	1.07	19.60	6.63	
10:05:20	10.35	5.06	76.11	0.36	20.71	4.27	
10:05:30	10.35	5.09	84.44	0.23	20.86	3.56	
10:05:40	10.34	5.10	92.49	8.78	11.28	39.53	
10:05:50	10.28	5.11	98.48	12.93	5.21	98.45	
10:06:00	10.27	5.16	100.91	14.15	3.74	224.88	
10:06:10	10.29	5.21	101.95	14.32	3.50	218.42	
10:06:20	10.33	5.29	100.70	14.32	3.65	105.34	
10:06:30	10.27	5.38	100.72	14.38	3.54	110.36	
10:06:40	10.17	5.47	100.93	14.23	3.77	299.95	
10:06:50	10.09	5.54	102.49	14.22	3.80	243.36	
					[illegible]	[illegible]	Tap 4 - 1
10:07:00	10.03	5.59	105.09	9.41	7.92	133.37	
10:07:10	9.98	5.63	105.71	12.19	7.00	320.53	
10:07:20	9.95	5.68	107.98	14.32	3.65	397.41	
10:07:30	9.94	5.70	111.44	14.93	2.88	236.21	
10:07:40	9.92	5.67	123.87	14.72	3.09	128.90	
10:07:50	9.95	5.58	150.28	14.51	3.47	104.50	
10:08:00	10.00	5.47	187.41	14.81	3.19	124.72	
10:08:10	10.07	5.31	226.74	14.84	3.02	126.10	
					[illegible]	[illegible]	Tap 4 - 2
10:08:20	10.16	5.14	263.47	13.64	3.98	122.90	
10:08:30	10.27	4.97	294.47	10.95	8.51	455.40	
10:08:40	10.38	4.80	325.16	13.69	4.32	1037.20	
10:08:50	10.49	4.62	350.62	13.81	4.18	520.07	
10:09:00	10.59	4.46	373.71	13.53	4.50	464.64	
10:09:10	10.68	4.30	394.11	13.03	5.23	209.34	
10:09:20	10.77	4.15	416.88	12.70	5.61	173.16	
10:09:30	10.85	4.02	441.98	12.59	5.79	105.45	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:09:40	10.93	3.89	464.55	12.71	5.63	171.14	
					[illegible]	[illegible]	Tap 4 - 3
10:09:50	11.03	3.76	484.52	7.54	11.62	52.04	
10:10:00	11.11	3.65	503.36	10.19	8.85	15.95	
10:10:10	11.20	3.55	521.13	11.18	7.56	17.47	
10:10:20	11.25	3.45	535.63	11.02	7.68	12.62	
10:10:30	11.31	3.35	547.99	11.58	7.04	27.35	
10:10:40	11.37	3.27	556.82	10.96	7.61	13.86	
10:10:50	11.42	3.19	559.03	10.92	7.85	20.16	
10:11:00	11.47	3.12	560.98	11.39	7.26	16.36	
					[illegible]	[illegible]	Tap 4 - 4
10:11:10	11.52	3.05	561.00	9.50	8.67	8.52	
10:11:20	11.58	2.99	562.58	7.31	13.74	8.01	
10:11:30	11.60	2.95	565.24	12.85	5.66	38.12	
10:11:40	11.62	2.91	567.09	13.61	4.52	20.92	
10:11:50	11.65	2.87	567.97	13.67	4.50	12.92	
10:12:00	11.67	2.84	566.86	14.00	4.11	53.08	
10:12:10	11.70	2.83	565.50	14.63	3.27	195.05	
10:12:20	11.71	2.81	563.35	14.33	3.67	103.02	
10:12:30	11.74	2.81	560.23	14.38	3.58	81.64	
10:12:40	11.73	2.80	557.49	14.52	3.38	221.68	
10:12:50	11.73	2.80	552.85	14.48	3.51	74.49	
					[illegible]	[illegible]	Tap 5 - 1
10:13:00	11.73	2.79	548.23	10.68	6.80	141.21	
10:13:10	11.75	2.80	538.28	11.52	7.62	178.02	
10:13:20	11.75	2.80	528.60	13.92	4.27	70.15	
10:13:30	11.74	2.81	516.16	14.09	3.96	25.06	
10:13:40	11.74	2.82	503.64	14.14	4.01	13.38	
10:13:50	11.74	2.84	489.01	14.13	4.00	15.71	
10:14:00	11.72	2.86	471.88	14.11	4.07	24.20	
10:14:10	11.71	2.88	454.43	14.11	3.90	77.10	
					[illegible]	[illegible]	Tap 5 - 2
10:14:20	11.71	2.89	439.70	10.55	7.06	34.82	
10:14:30	11.71	2.90	428.28	9.03	11.11	20.28	
10:14:40	11.71	2.90	419.47	12.59	6.02	124.89	
10:14:50	11.71	2.90	413.00	13.47	4.69	128.22	
10:15:00	11.70	2.90	409.01	13.54	4.58	113.21	
10:15:10	11.69	2.90	404.23	13.31	4.91	47.96	
10:15:20	11.70	2.90	402.50	12.85	5.53	19.24	
10:15:30	11.70	2.89	402.15	13.64	4.61	147.71	
10:15:40	11.70	2.89	406.89	13.79	4.39	163.71	
					[illegible]	[illegible]	Tap 5 - 3
10:15:50	11.72	2.88	411.04	9.67	7.85	91.92	
10:16:00	11.73	2.87	412.20	9.07	10.77	31.72	
10:16:10	11.73	2.86	410.04	11.41	7.31	16.43	
10:16:20	11.74	2.84	408.02	12.27	6.27	19.38	
10:16:30	11.74	2.83	406.83	12.46	6.02	22.36	
10:16:40	11.75	2.82	404.02	13.00	5.38	28.87	
10:16:50	11.77	2.81	403.92	12.98	5.34	32.90	
10:17:00	11.78	2.81	401.52	13.01	5.22	90.96	
10:17:10	11.77	2.80	400.33	12.90	5.54	49.07	
					[illegible]	[illegible]	Tap 5 - 4
10:17:20	11.78	2.80	398.56	9.34	8.58	33.35	
10:17:30	11.78	2.80	397.59	7.15	13.68	10.49	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:17:40	11.78	2.80	396.18	12.31	6.29	19.61	
10:17:50	11.78	2.80	394.60	13.16	5.13	14.24	
10:18:00	11.79	2.80	394.45	13.26	4.97	11.77	
10:18:10	11.80	2.80	397.01	13.02	5.30	10.72	
10:18:20	11.80	2.79	401.55	13.15	5.15	12.44	
10:18:30	11.80	2.78	409.24	13.48	4.78	10.72	
10:18:40	11.80	2.78	418.58	13.40	4.86	9.96	
					[illegible]	[illegible]	Tap 6 - 1
10:18:50	11.79	2.78	431.96	11.03	6.74	6.24	
10:19:00	11.79	2.77	448.34	9.98	9.50	5.33	
10:19:10	11.79	2.76	468.68	12.37	6.16	5.61	
10:19:20	11.80	2.75	487.89	12.75	5.63	5.65	
10:19:30	11.82	2.73	504.33	12.99	5.38	5.57	
10:19:40	11.82	2.71	520.95	12.76	5.61	5.60	
10:19:50	11.83	2.68	537.17	12.88	5.49	5.20	
10:20:00	11.83	2.66	552.48	13.16	5.11	5.64	
					[illegible]	[illegible]	Tap 6 - 2
10:20:10	11.85	2.63	569.58	12.07	5.95	5.47	
10:20:20	11.85	2.61	586.16	8.33	11.62	4.30	
10:20:30	11.88	2.59	600.70	11.79	6.88	6.97	
10:20:40	11.90	2.58	614.06	12.32	6.19	6.09	
10:20:50	11.90	2.57	622.53	12.43	6.02	5.70	
10:21:00	11.90	2.57	624.57	12.54	5.86	6.24	
10:21:10	11.89	2.58	620.47	12.24	6.21	5.49	
10:21:20	11.88	2.60	610.62	12.37	6.09	5.86	
					[illegible]	[illegible]	Tap 6 - 3
10:21:30	11.88	2.62	596.82	10.76	7.09	5.19	
10:21:40	11.86	2.64	579.45	9.08	10.37	4.46	
10:21:50	11.85	2.65	561.94	11.29	7.42	5.10	
10:22:00	11.84	2.66	545.85	11.74	6.84	5.68	
10:22:10	11.86	2.66	533.45	11.67	6.87	6.03	
10:22:20	11.85	2.66	525.75	11.92	6.60	5.73	
10:22:30	11.84	2.66	522.24	11.78	6.80	5.62	
10:22:40	11.86	2.66	523.22	11.81	6.70	6.25	
					[illegible]	[illegible]	Tap 6 - 4
10:22:50	11.85	2.66	526.94	9.71	8.31	5.73	
10:23:00	11.86	2.66	531.89	5.42	15.68	5.02	
10:23:10	11.86	2.65	540.84	11.71	7.07	7.73	
10:23:20	11.86	2.65	547.33	12.77	5.57	7.15	
10:23:30	11.83	2.66	552.70	13.21	5.03	7.05	
10:23:40	11.85	2.66	552.50	13.49	4.67	6.97	
10:23:50	11.84	2.67	548.86	13.35	4.86	7.20	
10:24:00	11.83	2.67	542.86	13.20	5.07	6.84	
10:24:10	11.84	2.68	535.30	13.48	4.80	7.94	
					[illegible]	[illegible]	Tap 7 - 1
10:24:20	11.84	2.69	529.17	11.37	6.08	7.70	
10:24:30	11.85	2.69	518.73	8.33	11.81	5.10	
10:24:40	11.85	2.70	508.76	11.59	7.06	5.31	
10:24:50	11.84	2.71	497.52	12.59	5.83	5.46	
10:25:00	11.82	2.72	487.75	13.08	5.25	6.20	
10:25:10	11.82	2.72	482.79	13.45	4.79	6.57	
10:25:20	11.82	2.72	479.88	13.19	5.07	6.80	
10:25:30	11.83	2.72	476.38	12.83	5.47	7.30	
10:25:40	11.82	2.72	474.96	12.76	5.64	6.48	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
					[illegible]	[illegible]	Tap 7 - 2
10:25:50	11.82	2.73	472.04	10.77	7.18	5.32	
10:26:00	11.82	2.73	468.10	9.54	10.01	4.55	
10:26:10	11.82	2.74	464.58	12.10	6.51	5.49	
10:26:20	11.79	2.74	460.70	12.62	5.76	6.01	
10:26:30	11.82	2.74	458.11	12.74	5.64	5.79	
10:26:40	11.81	2.74	457.68	12.76	5.62	5.71	
10:26:50	11.81	2.74	461.89	12.80	5.57	5.92	
10:27:00	11.82	2.73	473.99	12.72	5.68	6.09	
10:27:10	11.84	2.72	494.24	12.85	5.56	6.47	
					[illegible]	[illegible]	Tap 7 - 3
10:27:20	11.78	2.70	551.57	8.36	10.01	8.34	
10:27:30	11.78	2.69	609.29	10.82	8.29	8.03	
10:27:40	11.82	2.65	707.65	12.34	6.12	6.48	
10:27:50	11.82	2.65	798.40	12.50	5.89	9.04	
10:28:00	11.42	3.42	754.13	12.84	5.53	16.43	
10:28:10	10.96	4.09	692.76	12.91	5.49	15.72	
10:28:20	10.70	4.40	666.19	13.06	5.12	67.85	
10:28:30	10.56	4.61	641.88	12.26	6.18	16.20	
					[illegible]	[illegible]	Tap 7 - 4
10:28:40	10.44	4.77	617.89	6.09	11.14	5.96	
10:28:50	10.38	4.88	596.87	0.58	20.28	3.54	
10:29:00	10.34	4.96	582.70	0.18	20.79	3.50	
10:29:10	10.22	5.19	555.81	7.51	13.44	36.28	
10:29:20	10.07	5.38	535.45	12.00	6.38	87.66	
10:29:30	10.04	5.44	528.60	13.29	4.73	314.10	
10:29:40	9.98	5.53	507.20	13.53	4.40	217.41	
10:29:50	9.96	5.56	491.94	13.58	4.62	47.54	
10:30:00	9.93	5.58	476.63	13.60	4.56	43.52	
10:30:10	9.95	5.54	466.47	13.61	4.46	66.44	
10:30:20	9.97	5.51	451.53	13.46	4.68	177.57	
					[illegible]	[illegible]	Tap 8 - 1
10:30:30	10.01	5.44	441.83	9.83	7.27	43.75	
10:30:40	10.04	5.36	428.86	10.49	9.14	12.01	
10:30:50	10.08	5.32	408.95	13.12	5.17	13.97	
10:31:00	10.14	5.22	399.38	13.72	4.47	16.74	
10:31:10	10.20	5.13	392.81	13.52	4.62	11.73	
10:31:20	10.25	5.07	381.04	13.47	4.71	7.15	
10:31:30	10.32	4.99	374.57	13.47	4.81	11.55	
10:31:40	10.35	4.94	361.87	13.54	4.62	108.15	
10:31:50	10.39	4.86	357.03	12.74	5.06	24.13	
					[illegible]	[illegible]	Tap 8 - 2
10:32:00	10.43	4.80	352.06	9.81	9.92	9.70	
10:32:10	10.45	4.77	336.66	12.45	6.05	6.85	
10:32:20	10.49	4.71	336.40	13.12	5.23	17.41	
10:32:30	10.53	4.65	331.82	13.04	5.30	13.10	
10:32:40	10.58	4.61	325.21	13.29	4.94	21.60	
10:32:50	10.59	4.59	314.91	12.94	5.32	32.74	
10:33:00	10.60	4.55	308.46	13.27	5.10	133.59	
					[illegible]	[illegible]	Tap 8 - 3
10:33:10	10.64	4.51	304.40	11.12	6.41	133.14	
10:33:20	10.63	4.49	297.25	10.14	9.11	67.65	
10:33:30	10.67	4.45	296.61	12.64	5.87	60.40	
10:33:40	10.70	4.42	293.42	13.28	4.97	65.50	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:33:50	10.71	4.43	282.06	13.14	5.12	44.68	
10:34:00	10.72	4.42	278.18	13.08	5.24	16.78	
10:34:10	10.70	4.41	269.10	12.86	5.52	24.90	
10:34:20	10.73	4.38	269.77	12.92	5.45	60.48	
					[illegible]	[illegible]	Tap 8 - 4
10:34:30	10.74	4.37	264.61	7.90	10.55	73.71	
10:34:40	10.73	4.37	254.07	12.33	6.55	57.12	
10:34:50	10.73	4.36	250.30	13.97	4.15	353.45	
10:35:00	10.74	4.35	247.95	14.21	3.66	478.92	
10:35:10	10.77	4.33	245.81	14.02	4.03	129.32	
10:35:20	10.77	4.32	241.71	14.26	3.80	179.35	
10:35:30	10.78	4.30	238.69	14.20	3.71	318.00	
10:35:40	10.78	4.31	232.47	14.25	3.69	105.41	
					[illegible]	[illegible]	Tap 9 - 1
10:35:50	10.77	4.33	224.30	6.71	12.88	144.72	
10:36:00	10.79	4.32	222.60	13.86	4.12	1227.49	
10:36:10	10.79	4.33	215.81	14.31	3.54	711.00	
10:36:20	10.80	4.33	213.91	14.55	3.30	537.30	
10:36:30	10.80	4.32	211.97	14.25	3.59	465.53	
10:36:40	10.80	4.32	206.25	14.41	3.49	347.20	
10:36:50	10.78	4.32	202.70	14.52	3.42	131.89	
					[illegible]	[illegible]	Tap 9 - 2
10:37:00	10.78	4.32	198.60	6.85	11.76	36.38	
10:37:10	10.78	4.33	194.67	12.75	5.95	105.13	
10:37:20	10.79	4.34	191.66	14.41	3.57	551.98	
10:37:30	10.81	4.31	194.88	15.02	2.65	1227.45	
10:37:40	10.81	4.31	194.51	15.08	2.59	934.79	
10:37:50	10.81	4.30	193.84	14.82	2.93	489.77	
10:38:00	10.82	4.31	192.02	15.00	2.75	870.11	
10:38:10	10.80	4.32	188.75	14.92	2.69	1212.85	
					[illegible]	[illegible]	Tap 9 - 3
10:38:20	10.81	4.32	187.57	5.91	13.52	570.12	
10:38:30	10.82	4.32	188.79	11.98	6.72	271.77	
10:38:40	10.81	4.34	185.57	13.69	4.50	756.67	
10:38:50	10.81	4.33	184.42	14.46	3.33	1227.64	
10:39:00	10.81	4.32	182.71	14.21	3.74	480.24	
10:39:10	10.80	4.33	178.89	14.12	3.80	268.17	
10:39:20	10.78	4.35	175.96	14.35	3.65	589.60	
10:39:30	10.78	4.35	175.27	13.77	4.28	271.10	
					[illegible]	[illegible]	Tap 9 - 4
10:39:40	10.79	4.33	178.58	7.60	11.25	128.43	
10:39:50	10.78	4.35	176.74	13.37	4.97	325.99	
10:40:00	10.80	4.35	178.48	14.44	3.58	111.54	
10:40:10	10.77	4.36	178.91	14.71	3.18	53.57	
10:40:20	10.77	4.36	180.02	14.36	3.61	50.38	
10:40:30	10.76	4.36	182.57	14.39	3.57	171.62	
10:40:40	10.78	4.35	187.38	14.94	2.97	229.25	
10:40:50	10.79	4.35	189.80	14.84	2.98	249.91	
					[illegible]	[illegible]	Tap 10 - 1
10:41:00	10.79	4.34	193.42	8.20	10.14	276.91	
10:41:10	10.79	4.34	195.86	14.07	4.30	807.84	
10:41:20	10.80	4.33	197.18	15.01	2.71	1080.83	
10:41:30	10.79	4.34	197.92	14.85	2.75	770.09	
10:41:40	10.80	4.33	200.21	14.60	3.35	166.62	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:41:50	10.80	4.35	198.56	15.72	1.99	1048.41	
10:42:00	10.79	4.35	199.00	16.11	1.31	1227.64	
10:42:10	10.79	4.36	198.11	16.04	0.98	1227.77	
10:42:20	10.79	4.37	199.40	15.61	2.10	1227.78	
10:42:30	10.80	4.36	198.21	15.44	2.27	794.86	
10:42:40	10.79	4.37	196.27	14.88	2.78	632.12	
10:42:50	10.78	4.38	195.50	14.90	2.99	72.91	
10:43:00	10.77	4.37	195.77	15.05	2.87	53.50	
10:43:10	10.77	4.37	197.63	15.00	2.88	177.47	
					[illegible]	[illegible]	Tap 10 - 2
10:43:20	10.78	4.37	199.79	7.25	11.77	89.74	
10:43:30	10.79	4.38	200.85	13.96	4.35	774.19	
10:43:40	10.76	4.39	202.22	15.29	2.26	1227.60	
10:43:50	10.78	4.38	206.44	15.40	2.25	1227.71	
10:44:00	10.78	4.38	211.40	15.72	1.65	1227.77	
10:44:10	10.77	4.38	215.60	15.75	1.85	1227.79	
10:44:20	10.77	4.38	220.97	15.44	2.28	526.18	
10:44:30	10.77	4.38	226.66	15.68	1.96	1159.48	
					[illegible]	[illegible]	Tap 10 - 3
10:44:40	10.77	4.38	233.88	9.66	7.41	798.78	
10:44:50	10.79	4.35	239.88	13.37	5.23	949.71	
10:45:00	10.80	4.34	246.44	14.64	3.21	453.46	
10:45:10	10.81	4.32	254.17	14.68	3.21	569.93	
10:45:20	10.80	4.33	253.51	14.84	2.80	1183.64	
10:45:30	10.82	4.32	255.93	14.99	2.75	751.38	
10:45:40	10.80	4.32	257.20	15.22	2.54	1060.85	
10:45:50	10.81	4.31	260.48	15.20	2.40	1166.34	
					[illegible]	[illegible]	Tap 10 - 4
10:46:00	10.80	4.32	260.48	8.82	8.86	539.23	
10:46:10	10.82	4.31	265.97	12.62	6.11	267.62	
10:46:20	10.81	4.31	266.89	14.48	3.50	232.47	
10:46:30	10.81	4.33	263.15	14.58	3.26	116.96	
10:46:40	10.80	4.33	260.50	13.98	4.07	120.33	
10:46:50	10.81	4.32	261.01	14.29	3.71	289.10	
10:47:00	10.80	4.32	255.67	14.24	3.81	260.66	
10:47:10	10.81	4.32	255.78	14.54	3.33	454.72	
					[illegible]	[illegible]	Tap 11 - 1
10:47:20	10.83	4.29	260.57	8.32	9.45	256.16	
10:47:30	10.83	4.29	258.25	13.33	5.37	454.39	
10:47:40	10.81	4.31	250.96	14.79	2.98	363.78	
10:47:50	10.83	4.30	248.10	15.15	2.56	530.58	
10:48:00	10.82	4.29	247.84	14.91	2.82	254.02	
10:48:10	10.82	4.29	244.63	15.36	2.37	757.16	
10:48:20	10.84	4.29	240.88	14.82	2.88	578.49	
10:48:30	10.85	4.28	242.35	15.28	2.55	188.36	
					[illegible]	[illegible]	Tap 11 - 2
10:48:40	10.85	4.29	237.59	5.41	13.45	260.33	
10:48:50	10.83	4.29	234.37	12.94	5.80	521.00	
10:49:00	10.85	4.26	235.42	14.86	2.97	427.21	
10:49:10	10.85	4.25	236.15	15.49	2.17	937.31	
10:49:20	10.86	4.23	234.68	16.06	1.44	1227.65	
10:49:30	10.88	4.22	233.90	15.93	1.47	1227.76	
10:49:40	10.88	4.22	233.92	16.00	1.49	1227.80	
10:49:50	10.90	4.22	230.98	15.56	2.09	791.13	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:50:00	10.89	4.24	226.66	15.60	2.02	895.78	
					[illegible]	[illegible]	Tap 11 - 3
10:50:10	10.88	4.23	226.37	9.16	7.98	244.38	
10:50:20	10.88	4.24	225.51	12.47	6.49	242.61	
10:50:30	10.87	4.26	223.08	14.13	3.90	126.48	
10:50:40	10.86	4.28	220.27	14.44	3.49	267.64	
10:50:50	10.85	4.28	221.01	14.57	3.28	504.06	
10:51:00	10.85	4.27	223.88	14.53	3.34	928.42	
10:51:10	10.83	4.29	220.56	14.98	2.72	1227.65	
10:51:20	10.84	4.30	219.56	14.77	2.89	752.90	
					[illegible]	[illegible]	Tap 11 - 4
10:51:30	10.82	4.30	219.94	3.09	15.68	92.99	
10:51:40	10.80	4.32	213.67	0.36	20.55	10.05	
10:51:50	10.81	4.32	214.67	0.17	20.79	7.21	
10:52:00	10.82	4.32	214.92	0.37	20.73	8.05	
10:52:10	10.82	4.31	213.94	10.85	8.31	113.04	
10:52:20	10.82	4.32	209.58	14.14	3.72	909.73	
10:52:30	10.82	4.33	203.71	14.62	3.01	441.52	
10:52:40	10.82	4.33	200.77	14.42	3.37	283.61	
10:52:50	10.81	4.32	196.98	14.60	3.18	240.66	
10:53:00	10.80	4.33	193.14	14.42	3.42	142.03	
10:53:10	10.81	4.34	188.56	14.66	3.20	253.42	
					[illegible]	[illegible]	Tap 12 - 1
10:53:20	10.81	4.36	184.30	9.46	7.71	373.82	
10:53:30	10.82	4.36	182.57	12.40	6.77	806.85	
10:53:40	10.83	4.34	184.20	15.13	2.50	1182.20	
10:53:50	10.82	4.34	181.75	15.83	1.77	1200.04	
10:54:00	10.81	4.36	176.65	15.51	1.98	656.88	
10:54:10	10.80	4.37	172.86	14.95	2.73	215.73	
10:54:20	10.81	4.37	169.88	15.14	2.66	494.30	
10:54:30	10.82	4.36	169.81	15.37	2.43	292.11	
					[illegible]	[illegible]	Tap 12 - 2
10:54:40	10.82	4.36	168.68	13.56	3.38	581.60	
10:54:50	10.82	4.36	167.90	11.63	8.07	433.44	
10:55:00	10.80	4.37	164.99	14.68	3.02	774.13	
10:55:10	10.79	4.37	165.30	14.75	3.06	278.95	
10:55:20	10.76	4.37	168.47	15.14	2.63	437.58	
10:55:30	10.76	4.39	170.61	14.71	3.11	202.12	
10:55:40	10.77	4.38	175.68	15.00	2.80	94.74	
10:55:50	10.78	4.38	182.64	15.25	2.57	342.46	
					[illegible]	[illegible]	Tap 12 - 3
10:56:00	10.78	4.37	190.74	5.97	12.30	255.64	
10:56:10	10.78	4.37	197.98	11.56	7.54	450.00	
10:56:20	10.77	4.39	203.58	13.89	4.06	1227.06	
10:56:30	10.75	4.39	210.80	14.34	3.46	1227.66	
10:56:40	10.75	4.39	218.31	14.55	3.17	1063.04	
10:56:50	10.76	4.39	225.22	14.59	3.14	729.50	
10:57:00	10.75	4.40	230.17	14.50	3.24	991.94	
10:57:10	10.74	4.40	235.85	14.64	3.21	832.81	
					[illegible]	[illegible]	Tap 12 - 4
10:57:20	10.73	4.44	233.76	9.12	8.13	560.64	
10:57:30	10.73	4.43	239.19	13.07	5.73	338.30	
10:57:40	10.73	4.42	246.20	14.44	3.47	155.84	
10:57:50	10.72	4.42	250.47	14.85	2.97	168.19	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
10:58:00	10.72	4.44	252.81	14.66	3.24	107.51	
10:58:10	10.72	4.45	252.51	14.89	2.96	264.80	
10:58:20	10.72	4.44	260.81	14.92	2.90	245.39	
10:58:30	10.73	4.43	266.83	14.87	2.96	164.78	
					[illegible]	[illegible]	Tap 13 - 1
10:58:40	10.72	4.45	269.75	9.43	8.31	41.74	
10:58:50	10.72	4.43	276.83	13.45	5.12	332.03	
10:59:00	10.72	4.42	278.93	14.94	2.92	424.14	
10:59:10	10.72	4.43	277.86	15.20	2.59	293.95	
10:59:20	10.73	4.42	279.44	15.43	2.33	216.11	
10:59:30	10.73	4.41	283.08	15.32	2.40	414.19	
10:59:40	10.74	4.40	286.07	15.16	2.67	214.78	
10:59:50	10.74	4.39	283.90	15.11	2.71	194.72	
					[illegible]	[illegible]	Tap 13 - 2
11:00:00	10.72	4.40	282.09	8.49	8.81	69.54	
11:00:10	10.73	4.39	283.80	11.64	7.55	865.43	
11:00:20	10.74	4.37	287.85	14.91	2.85	1227.55	
11:00:30	10.75	4.37	288.73	15.58	1.97	1227.69	
11:00:40	10.75	4.36	292.98	15.62	1.98	981.33	
11:00:50	10.78	4.35	297.05	15.74	1.84	749.12	
11:01:00	10.77	4.36	294.92	15.43	2.29	455.55	
11:01:10	10.76	4.35	297.42	15.84	1.93	304.24	
					[illegible]	[illegible]	Tap 13 - 3
11:01:20	10.78	4.31	308.94	6.94	11.09	429.26	
11:01:30	10.77	4.33	305.78	12.95	5.94	879.45	
11:01:40	10.78	4.32	311.09	15.27	2.29	1227.62	
11:01:50	10.81	4.30	319.20	16.00	1.19	1227.76	
11:02:00	10.80	4.29	324.08	16.10	0.82	1227.77	
11:02:10	10.81	4.30	325.78	16.02	1.40	1227.80	
11:02:20	10.79	4.31	326.18	15.84	1.74	669.42	
11:02:30	10.78	4.31	331.15	15.97	1.57	1223.15	
11:02:40	10.76	4.33	326.46	15.97	1.51	1227.73	
					[illegible]	[illegible]	Tap 13 - 4
11:02:50	10.78	4.33	330.95	8.88	10.25	629.41	
11:03:00	10.78	4.32	334.47	13.88	4.26	501.99	
11:03:10	10.79	4.33	334.11	14.79	3.07	431.84	
11:03:20	10.75	4.36	319.60	15.25	2.54	292.56	
11:03:30	10.77	4.36	322.01	15.10	2.67	213.39	
11:03:40	10.75	4.36	320.52	15.09	2.80	118.08	
11:03:50	10.74	4.37	312.04	15.23	2.61	112.31	
11:04:00	10.75	4.38	309.54	15.40	2.30	851.53	
					[illegible]	[illegible]	Tap 14 - 1
11:04:10	10.74	4.40	298.36	8.71	9.45	548.06	
11:04:20	10.74	4.40	294.01	13.51	4.96	217.10	
11:04:30	10.74	4.38	293.11	14.73	3.17	143.65	
11:04:40	10.77	4.35	296.34	15.05	2.69	149.41	
11:04:50	10.75	4.38	285.02	14.81	3.06	115.31	
11:05:00	10.73	4.41	275.89	15.23	2.58	370.32	
11:05:10	10.76	4.40	276.54	15.41	2.34	273.40	
11:05:20	10.74	4.41	272.84	14.84	2.96	117.44	
					[illegible]	[illegible]	Tap 14 - 2
11:05:30	10.74	4.41	268.68	9.27	7.95	69.10	
11:05:40	10.74	4.40	270.18	12.99	5.87	956.33	
11:05:50	10.74	4.38	271.30	15.04	2.65	484.70	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
11:06:00	10.75	4.37	273.68	15.71	1.93	804.35	
11:06:10	10.77	4.36	274.14	15.98	1.43	1227.62	
11:06:20	10.78	4.38	272.63	16.02	1.49	1227.75	
11:06:30	10.74	4.39	267.34	15.53	2.07	477.07	
11:06:40	10.79	4.34	280.07	15.50	2.19	707.61	
11:06:50	10.78	4.32	279.03	15.70	1.91	1048.60	
					[illegible]	[illegible]	Tap 14 - 3
11:07:00	10.78	4.34	275.58	12.15	4.69	752.22	
11:07:10	10.80	4.33	271.60	13.53	4.94	1227.08	
11:07:20	10.80	4.33	272.23	15.06	2.62	874.05	
11:07:30	10.81	4.32	273.73	15.50	2.18	1095.03	
11:07:40	10.80	4.31	273.87	15.86	1.52	1227.75	
11:07:50	10.81	4.32	273.69	15.95	1.53	1227.80	
11:08:00	10.78	4.32	274.41	16.06	0.98	1227.80	
11:08:10	10.81	4.32	280.41	16.04	1.13	1227.83	
11:08:20	10.82	4.32	283.55	15.95	1.36	1227.84	
11:08:30	10.81	4.33	283.60	15.99	1.40	1227.82	
					[illegible]	[illegible]	Tap 14 - 4

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:06:00	10.7472	4.36783	273.675	15.7081	1.93064	804.352
11:06:10	10.7713	4.36392	274.138	15.9837	1.43416	1227.62
11:06:20	10.7759	4.37541	272.633	16.0208	1.49191	1227.75
11:06:30	10.7401	4.39186	267.336	15.5276	2.06808	477.068
11:06:40	10.7941	4.33599	280.073	15.4976	2.19191	707.611
11:06:50	10.7811	4.32267	279.031	15.7029	1.90796	1048.6
11:07:00	10.7837	4.33945	275.584	12.1533	4.6888	752.216
11:07:10	10.8	4.33314	271.597	13.53	4.93565	1227.08
11:07:20	10.8033	4.32947	272.229	15.0624	2.62075	874.048
11:07:30	10.8072	4.32027	273.734	15.5022	2.17786	1095.03
11:07:40	10.7954	4.31335	273.87	15.8632	1.52416	1227.75
11:07:50	10.8085	4.3232	273.688	15.9531	1.53389	1227.8
11:08:00	10.7831	4.31766	274.411	16.0645	0.975762	1227.8
11:08:10	10.8117	4.31803	280.412	16.0423	1.1283	1227.83
11:08:20	10.8241	4.31783	283.546	15.9537	1.35891	1227.84
11:08:30	10.8085	4.3265	283.598	15.9889	1.4011	1227.82
11:08:40	-0.13292	0.347671	571.979	-0.46846	0.85608	1227.86
11:08:50	3.32E-02	4.55E-03	17.8067	-0.13096	3.46E-02	49.1525
11:09:00	4.82E-02	2.96E-03	4.639	-9.06E-02	3.15E-02	10.5159
11:09:10	2.28E-02	6.00E-04	2.9906	-0.10229	2.84E-02	7.1605
11:09:20	5.28E-02	-6.22E-04	3.1079	-6.78E-02	2.69E-02	6.32
11:09:30	3.65E-02	-1.68E-03	3.3555	-7.49E-02	2.61E-02	5.9486
11:09:40	3.71E-02	-9.88E-04	3.0297	-0.1062	2.71E-02	4.7954
11:09:50	8.98415	1.62694	488.613	6.21574	1.66673	1227.15
11:10:00	1.56E-02	4.55E-03	39.1839	-0.19286	2.95E-02	66.236
11:10:10	5.47E-02	3.37E-03	3.9028	-8.28E-02	2.86E-02	8.3528
11:10:20	3.19E-02	4.06E-03	2.313	-0.10425	2.76E-02	5.1667
11:10:30	4.24E-02	2.84E-03	3.2642	-7.17E-02	2.63E-02	1.4073
11:10:40	0.22153	5.66E-02	20.9146	-2.54E-02	8.33E-02	126.53
11:10:50	4.69E-02	7.12E-03	967.955	-8.86E-02	2.13E-02	1010.31
11:11:00	3.58E-02	-5.02E-03	996.93	-8.99E-02	2.14E-02	994.323
11:11:10	2.35E-02	-2.70E-03	1014.02	-0.12705	2.20E-02	993.424
11:11:20	2.22E-02	-4.90E-03	1003.5	-0.10099	2.13E-02	1000.37
11:11:30	12.666	0.18177	444.523	17.3813	0.343274	507.801
11:11:40	13.8597	-1.64E-03	3.6682	17.9259	2.57E-02	10.9981
11:11:50	13.8707	-1.72E-03	2.756	17.9768	2.59E-02	4.424
11:12:00	13.8753	-5.14E-05	1.5311	17.9833	2.72E-02	3.173
11:12:10	18.0191	2.98E-05	1.7201	17.9898	2.73E-02	3.4206
11:12:20	17.997	1.82E-03	1.4008	17.9722	2.68E-02	2.9254
11:12:30	18.023	1.40E-02	2.339	18.01	3.07E-02	3.9028
11:12:40	2.61E-02	7.94539	4.8996	-0.13292	7.93834	24.257
11:12:50	5.15E-02	7.98558	9.77E-02	-5.86E-02	7.99711	0.6776
11:13:00	7.23E-02	7.98591	0.7558	-4.69E-02	8.02085	0.3062
11:13:10	0.91412	7.26623	11.819	4.82E-02	7.38176	76.4718
11:13:20	3.97E-02	0.403704	-0.2932	-5.93E-02	0.433432	-0.1433
11:13:30	1.89E-02	0.397678	-0.86	-9.06E-02	0.427485	-1.8764
11:13:40	3.65E-02	0.396008	-0.1889	-8.47E-02	0.424635	-1.062
11:13:50	2.87E-02	0.391814	0.1173	-8.86E-02	0.421093	-1.4725
11:14:00	2.02E-02	0.39271	-0.6711	-6.06E-02	0.422517	-1.3422
11:14:10	2.48E-02	0.39499	-0.2932	-7.10E-02	0.422803	-1.7331
11:14:20	10.8417	3.03554	628.428	14.36	3.51373	718.016

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
Sensor Name	CO2_101	O2_101	CO_101	CO2_102	O2_102	CO_102
11:15:19	13.89	4.42	253.95	14.53	3.26	652.82
11:15:39	13.85	4.45	242.10	14.63	3.19	600.18
11:15:59	13.85	4.45	239.09	14.62	3.19	525.12
11:16:19	13.87	4.45	239.83	14.63	3.23	480.21
11:16:39	13.87	4.45	240.86	14.58	3.26	509.53
11:16:59	13.87	4.45	243.98	14.65	3.21	553.92
11:17:19	13.87	4.44	249.60	14.68	3.17	565.70
11:17:39	13.83	4.46	252.08	14.67	3.14	598.99
11:17:59	13.81	4.51	248.59	14.63	3.15	687.03
11:18:19	13.84	4.50	253.82	14.63	3.14	662.58
11:18:39	13.84	4.50	254.29	14.64	3.16	634.61
11:18:59	13.86	4.48	258.39	14.70	3.10	698.55
11:19:19	13.87	4.47	260.94	14.68	3.12	760.03
11:19:39	13.92	4.45	267.52	14.70	3.14	722.76
11:19:59	13.90	4.45	265.24	14.69	3.12	693.70
11:20:19	13.90	4.42	270.13	14.67	3.13	708.27
11:20:39	13.90	4.42	269.15	14.73	3.07	762.88
11:20:59	13.92	4.42	265.88	14.63	3.10	657.28
11:21:19	13.90	4.41	263.04	14.70	3.16	599.52
11:21:39	13.89	4.43	255.86	14.60	3.25	520.49
11:21:59	13.89	4.43	253.88	14.66	3.20	483.34
11:22:19	13.89	4.41	259.09	14.68	3.16	494.75
11:22:39	13.89	4.44	252.70	14.70	3.17	477.99
11:22:59	13.90	4.44	255.08	14.71	3.18	429.05
11:23:19	13.89	4.42	261.41	14.76	3.11	412.01
11:23:39	13.79	4.39	272.28	14.80	3.06	385.42
11:23:59	13.83	4.38	273.59	14.81	3.02	424.79
11:24:19	13.86	4.36	277.40	14.82	3.00	559.29
11:24:39	13.86	4.38	275.47	14.77	3.00	633.13
11:24:59	13.85	4.39	275.05	14.76	3.04	593.04
11:25:19	13.86	4.37	282.16	14.76	3.05	524.33
11:25:39	13.87	4.37	284.30	14.76	3.07	461.93
11:25:59	13.86	4.39	282.35	14.74	3.13	410.55
11:26:19	13.85	4.39	280.66	14.72	3.16	378.90
11:26:39	13.83	4.40	275.08	14.70	3.16	373.84
11:26:59	13.84	4.38	279.86	14.75	3.12	438.74
11:27:19	13.84	4.40	272.59	14.74	3.13	463.93
11:27:39	13.84	4.40	271.17	14.71	3.15	481.63
11:27:59	13.83	4.37	280.80	14.70	3.17	483.90
11:28:19	13.85	4.38	285.80	14.64	3.18	500.98
11:28:39	13.88	4.39	288.50	14.69	3.16	500.99
11:28:59	13.86	4.39	288.46	14.75	3.08	573.11
11:29:19	13.86	4.40	285.07	14.69	3.07	663.64
11:29:39	13.87	4.41	276.10	14.73	3.05	713.27
11:29:59	13.88	4.40	268.05	14.73	3.07	728.97
11:30:19	13.86	4.42	256.09	14.71	3.09	733.71
11:30:39	13.84	4.42	248.12	14.67	3.15	737.67
11:30:59	13.85	4.42	239.96	14.69	3.11	779.16
11:31:19	13.82	4.44	225.15	14.70	3.09	751.27
11:31:39	13.82	4.46	213.59	14.69	3.10	760.55
11:31:59	13.83	4.43	209.72	14.68	3.13	761.61

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:32:19	13.87	4.42	206.53	14.68	3.14	793.13
11:32:39	13.86	4.42	199.48	14.68	3.09	853.11
11:32:59	13.87	4.42	195.85	14.70	3.07	894.87
11:33:19	13.89	4.41	190.55	14.71	3.08	767.21
11:33:39	13.87	4.42	184.48	14.63	3.14	664.03
11:33:59	13.86	4.45	170.26	14.67	3.15	621.19
11:34:19	13.85	4.45	160.91	14.72	3.10	558.91
11:34:39	13.84	4.47	148.70	14.67	3.19	461.07
11:34:59	13.85	4.46	145.09	14.61	3.24	386.71
11:35:19	13.80	4.46	142.96	14.59	3.28	359.04
11:35:39	13.81	4.45	148.71	14.59	3.28	403.39
11:35:59	13.81	4.45	157.22	14.63	3.23	419.67
11:36:19	13.81	4.46	168.37	14.63	3.25	404.47
11:36:39	13.81	4.47	178.72	14.58	3.30	388.59
11:36:59	13.83	4.45	195.28	14.63	3.27	420.20
11:37:19	13.81	4.46	204.53	14.63	3.24	403.07
11:37:39	13.83	4.45	218.42	14.63	3.24	385.45
11:37:59	13.82	4.46	225.99	14.66	3.21	371.32
11:38:19	13.82	4.47	233.14	14.68	3.19	380.05
11:38:39	13.80	4.47	238.36	14.64	3.21	372.37
11:38:59	13.82	4.44	250.60	14.63	3.23	412.87
11:39:19	13.81	4.45	255.69	14.59	3.29	447.64
11:39:39	13.80	4.46	258.30	14.59	3.25	506.26
11:39:59	13.75	4.53	261.39	14.56	3.26	513.75
11:40:19	13.68	4.60	260.98	14.60	3.23	540.11
11:40:39	13.73	4.57	271.34	14.66	3.17	542.16
11:40:59	13.66	4.59	263.15	14.69	3.17	573.52
11:41:19	13.72	4.53	273.41	14.61	3.19	619.96
11:41:39	13.74	4.50	270.53	14.62	3.15	654.17
11:41:59	13.77	4.49	260.45	14.74	3.06	735.74
11:42:19	13.76	4.44	264.39	14.68	3.10	711.09
11:42:39	13.81	4.42	259.24	14.71	3.09	708.04
11:42:59	13.81	4.39	253.37	14.64	3.11	685.75
11:43:19	13.83	4.39	243.01	14.66	3.11	658.55
11:43:39	13.83	4.41	229.89	14.61	3.16	615.30
11:43:59	13.85	4.39	229.91	14.62	3.14	668.42
11:44:19	13.89	4.37	231.23	14.67	3.11	677.44
11:44:39	13.89	4.36	226.19	14.71	3.09	733.37
11:44:59	13.91	4.35	219.34	14.71	3.08	743.86
11:45:19	13.89	4.36	211.74	14.74	3.05	752.11
11:45:39	13.90	4.35	207.58	14.74	3.05	757.65
11:45:59	13.90	4.36	201.20	14.63	3.11	633.20
11:46:19	13.89	4.36	196.64	14.63	3.20	507.63
11:46:39	13.89	4.36	192.66	14.62	3.25	445.91
11:46:59	13.89	4.35	189.18	14.60	3.27	437.65
11:47:19	13.94	4.32	192.21	14.61	3.29	400.62
11:47:39	13.95	4.29	193.49	14.58	3.31	373.51
11:47:59	13.96	4.28	194.99	14.58	3.33	341.97
11:48:19	13.96	4.30	195.55	14.56	3.36	346.59
11:48:39	13.94	4.31	192.96	14.57	3.35	342.02
11:48:59	13.95	4.28	198.63	14.61	3.34	318.18
11:49:19	13.91	4.30	195.61	14.59	3.33	307.55
11:49:39	13.92	4.30	205.48	14.58	3.36	284.39
11:49:59	13.91	4.32	206.92	14.52	3.40	261.62

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
11:50:19	13.92	4.30	220.12	14.57	3.35	308.69	
11:50:39	13.90	4.33	220.39	14.59	3.26	381.70	
11:50:59	13.92	4.31	222.62	14.61	3.27	362.55	
11:51:19	13.95	4.29	221.62	14.58	3.33	307.88	
11:51:39	13.92	4.31	214.00	14.55	3.37	266.21	
11:51:59	13.94	4.28	221.56	14.52	3.42	238.89	
11:52:19	13.94	4.28	218.80	14.50	3.46	249.68	
11:52:39	13.95	4.27	218.95	14.58	3.35	305.61	
11:52:59	13.94	4.26	221.75	14.61	3.30	338.26	
11:53:19	13.98	4.25	223.53	14.67	3.24	425.36	
11:53:39	14.00	4.22	234.41	14.67	3.15	508.63	
11:53:59	14.01	4.21	237.49	14.76	3.09	570.02	
11:54:19	14.02	4.21	240.79	14.74	3.12	530.42	
11:54:39	14.01	4.21	244.24	14.71	3.14	469.15	
11:54:59	14.02	4.20	246.77	14.77	3.09	482.18	
11:55:19	14.03	4.20	239.89	14.77	3.05	515.21	
11:55:39	14.02	4.18	236.84	14.79	3.02	576.30	
11:55:59	14.01	4.20	231.60	14.77	3.03	611.84	
11:56:19	14.03	4.21	231.82	14.77	2.99	633.86	
11:56:39	13.98	4.22	222.69	14.77	2.99	619.11	
11:56:59	13.99	4.22	220.60	14.71	3.12	539.15	
11:57:19	13.98	4.22	219.17	14.64	3.23	464.91	
11:57:39	13.96	4.23	217.29	14.63	3.26	444.40	
11:57:59	13.97	4.24	215.88	14.59	3.28	411.64	
11:58:19	13.95	4.27	209.20	14.59	3.29	380.29	
11:58:39	13.93	4.31	200.01	14.59	3.29	358.83	
11:58:59	13.92	4.29	203.15	14.64	3.23	357.05	
11:59:19	13.96	4.27	209.19	14.70	3.19	383.17	
11:59:39	13.92	4.30	198.12	14.66	3.19	448.58	
11:59:59	13.93	4.31	192.13	14.65	3.19	496.88	
average	13.88	4.38	233.11	14.66	3.18	527.87	Test 21
minimum	13.66	4.18	142.96	14.50	2.99	238.89	
maximum	14.03	4.60	288.50	14.82	3.46	894.87	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:15:19	13.97	4.41	13.76	0.16	20.65	23.16	Test 22
13:15:39	13.88	4.52	13.66	0.01	20.85	5.66	
13:15:59	13.73	4.74	13.60	0.01	20.86	3.31	
13:16:19	13.48	5.05	13.98	0.01	20.88	2.84	
13:16:39	13.27	5.31	13.88	0.24	20.53	2.43	
13:16:59	13.12	5.43	14.18	8.84	9.92	10.81	
13:17:19	13.09	5.45	15.88	12.97	4.94	24.65	
13:17:39	13.14	5.35	14.80	14.06	3.68	35.69	
13:17:59	13.26	5.20	15.02	15.04	2.66	54.81	
13:18:19	13.38	5.03	14.59	15.32	2.41	66.18	
13:18:39	13.48	4.90	13.92	15.37	2.33	88.90	
13:18:59	13.57	4.78	12.65	15.52	2.19	177.29	
13:19:19	13.68	4.68	12.25	15.53	2.15	244.01	
13:19:39	13.73	4.61	12.23	15.05	2.89	268.17	
					[illegible]	[illegible]	Tap 1 - 1
13:19:59	13.80	4.55	14.22	12.94	5.36	207.73	
13:20:19	13.83	4.48	15.66	14.08	3.82	138.32	
13:20:39	13.86	4.42	16.40	15.29	2.46	106.69	
13:20:59	13.92	4.39	18.48	15.49	2.25	89.04	
13:21:19	13.93	4.36	19.38	15.69	2.04	89.39	
13:21:39	13.95	4.35	20.15	15.88	1.88	98.78	
13:21:59	13.95	4.33	18.88	15.80	1.99	104.03	
					[illegible]	[illegible]	Tap 1 - 2
13:22:19	13.97	4.32	18.92	13.63	4.71	122.19	
13:22:39	13.97	4.30	20.36	15.54	2.15	251.63	
13:22:59	14.00	4.28	24.91	15.22	2.56	71.42	
13:23:19	14.03	4.27	27.66	15.52	2.14	225.70	
13:23:39	14.03	4.26	27.37	15.25	2.56	103.11	
13:23:59	14.04	4.27	26.99	15.05	2.85	34.55	
					[illegible]	[illegible]	Tap 1 - 3
13:24:19	14.01	4.28	25.78	9.03	10.67	75.97	
13:24:39	14.04	4.26	23.78	14.37	3.50	138.16	
13:24:59	14.07	4.23	23.23	15.35	2.20	1227.45	
13:25:19	14.11	4.22	21.34	14.65	3.12	259.92	
13:25:39	14.10	4.21	18.50	14.60	3.31	105.54	
13:25:59	14.08	4.22	15.60	14.75	3.17	30.41	
					[illegible]	[illegible]	Tap 1 - 4
13:26:19	14.08	4.24	14.24	13.71	3.88	192.99	
13:26:39	14.07	4.26	13.72	13.59	4.73	52.25	
13:26:59	14.06	4.28	13.28	14.73	3.17	13.52	
13:27:19	14.05	4.32	13.47	14.70	3.27	24.51	
13:27:39	14.02	4.37	12.19	14.80	3.08	42.33	
13:27:59	13.97	4.40	11.27	15.07	2.79	26.79	
13:28:19	13.94	4.42	10.20	15.20	2.64	28.26	
					[illegible]	[illegible]	Tap 2 -1
13:28:39	13.95	4.42	10.00	14.11	3.65	31.61	
13:28:59	13.95	4.42	9.37	14.47	3.66	24.58	
13:29:19	13.94	4.41	8.31	15.50	2.18	73.37	
13:29:39	13.92	4.40	7.56	15.60	2.08	84.38	
13:29:59	13.92	4.40	6.48	15.87	1.78	189.68	
					[illegible]	[illegible]	Tap 2 - 2
13:30:19	13.91	4.39	7.05	13.41	5.12	36.40	
13:30:39	13.96	4.38	7.41	14.93	2.91	95.58	
13:30:59	13.96	4.38	7.28	15.05	2.72	413.34	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:31:19	13.97	4.37	6.66	14.97	2.81	440.59	
13:31:39	13.97	4.37	5.92	15.20	2.49	599.83	
					[illegible]	[illegible]	Tap 2 - 3
13:31:59	13.98	4.38	6.25	11.01	8.00	697.98	
13:32:19	13.97	4.39	6.85	13.98	4.08	111.68	
13:32:39	13.95	4.39	7.53	14.59	3.21	406.13	
13:32:59	13.98	4.38	9.00	14.85	2.95	364.96	
13:33:19	13.99	4.33	11.37	14.98	2.85	329.86	
13:33:39	14.03	4.25	15.81	14.62	3.01	247.66	
					[illegible]	[illegible]	Tap 2 - 4
13:33:59	14.09	4.19	20.93	13.32	4.94	658.95	
13:34:19	14.14	4.15	24.22	15.53	2.13	290.84	
13:34:39	14.18	4.11	27.27	15.54	2.22	134.49	
13:34:59	14.18	4.08	29.33	15.57	2.22	87.65	
					[illegible]	[illegible]	Tap 3 - 1
13:35:19	14.19	4.04	32.36	9.77	7.77	85.52	
13:35:39	14.21	4.01	37.38	13.87	4.36	581.04	
13:35:59	14.21	3.98	43.35	15.77	1.90	150.20	
13:36:19	14.23	3.97	44.97	16.13	1.55	217.76	
13:36:39	14.26	3.96	43.95	15.86	1.87	209.63	
13:36:59	14.26	3.95	40.51	15.29	2.32	57.28	
					[illegible]	[illegible]	Tap 3 - 2
13:37:19	14.24	3.94	37.90	13.29	5.02	491.72	
13:37:39	14.24	3.93	40.35	15.08	2.63	248.56	
13:37:59	14.26	3.92	43.73	14.95	2.81	539.55	
13:38:19	14.28	3.92	44.54	14.71	3.14	236.55	
13:38:39	14.26	3.92	45.65	15.37	2.32	390.57	
13:38:59	14.21	3.92	46.40	14.76	3.14	118.67	
13:39:19	14.22	3.91	47.71	14.82	3.11	71.17	
13:39:39	14.24	3.89	47.18	14.72	3.24	39.35	
13:39:59	14.27	3.88	47.54	14.60	3.31	146.55	
					[illegible]	[illegible]	Tap 3 - 3
13:40:19	14.28	3.83	48.23	11.09	7.82	29.72	
13:40:39	14.33	3.85	42.88	12.71	5.68	8.57	
13:40:59	14.32	3.87	39.28	13.00	5.29	7.28	
13:41:19	14.13	4.10	44.40	12.89	5.38	5.41	
13:41:39	13.93	4.36	53.26	13.12	5.18	15.66	
13:41:59	13.83	4.48	57.15	13.25	5.06	11.16	
13:42:19	13.76	4.57	58.68	13.77	4.28	223.73	
					[illegible]	[illegible]	Tap 3 - 4
13:42:39	13.72	4.61	58.83	3.57	15.98	54.46	
13:42:59	13.71	4.64	59.59	0.31	20.65	2.48	
13:43:19	13.79	4.62	59.17	11.43	7.51	17.44	
13:43:39	13.73	4.61	58.12	14.09	3.83	31.37	
13:43:59	13.72	4.64	56.16	14.68	3.17	36.67	
13:44:19	13.64	4.76	60.55	14.80	3.11	10.19	
13:44:39	13.57	4.81	64.39	14.75	3.18	9.62	
13:44:59	13.59	4.72	69.05	14.66	3.34	5.69	
					[illegible]	[illegible]	Tap 4 - 1
13:45:19	13.74	4.58	80.98	11.97	7.13	4.60	
13:45:39	13.91	4.40	93.98	14.33	3.76	4.89	
13:45:59	14.05	4.23	105.51	14.98	2.92	283.02	
13:46:19	14.17	4.04	115.45	15.24	2.47	394.69	
13:46:39	14.27	3.89	120.87	14.90	2.93	91.09	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:46:59	14.40	3.76	118.30	15.07	2.83	33.09	
13:47:19	14.51	3.66	112.87	14.99	2.90	11.21	
					[illegible]	[illegible]	Tap 4 - 2
13:47:39	14.58	3.58	105.86	14.49	3.49	6.38	
13:47:59	14.66	3.50	103.02	12.34	6.53	37.29	
13:48:19	14.71	3.42	109.82	13.97	4.06	197.83	
13:48:39	14.79	3.33	120.31	14.47	3.53	58.46	
13:48:59	14.84	3.25	129.35	14.93	2.78	1014.55	
13:49:19	14.90	3.17	137.43	14.71	3.12	378.42	
13:49:39	14.97	3.12	144.21	14.84	2.86	956.49	
13:49:59	14.97	3.08	148.25	14.38	3.48	234.06	
					[illegible]	[illegible]	Tap 4 - 3
13:50:19	14.99	3.04	159.42	12.30	6.19	75.98	
13:50:39	15.04	2.97	179.72	13.30	4.96	14.72	
13:50:59	15.12	2.91	202.14	13.34	4.91	20.18	
13:51:19	15.20	2.84	233.49	13.56	4.63	13.83	
13:51:39	15.25	2.77	262.76	12.53	5.92	6.70	
13:51:59	15.28	2.72	286.11	12.65	5.79	5.29	
13:52:19	15.31	2.67	301.69	12.60	5.82	5.21	
					[illegible]	[illegible]	Tap 4 - 4
13:52:39	15.35	2.63	312.45	12.32	6.14	4.33	
13:52:59	15.39	2.59	323.53	10.68	8.76	3.86	
13:53:19	15.42	2.57	329.28	14.12	3.94	8.30	
13:53:39	15.42	2.56	332.68	14.80	3.16	12.95	
13:53:59	15.41	2.57	326.24	14.85	3.11	16.46	
13:54:19	15.37	2.61	309.91	14.89	3.03	33.67	
13:54:39	15.37	2.67	291.76	14.63	3.21	36.06	
					[illegible]	[illegible]	Tap 5 - 1
13:54:59	15.35	2.73	266.88	13.57	4.89	7.79	
13:55:19	15.32	2.78	240.54	15.02	2.89	40.30	
13:55:39	15.28	2.82	216.68	14.71	3.30	11.10	
13:55:59	15.24	2.83	199.32	14.57	3.47	5.28	
13:56:19	15.24	2.82	195.91	14.51	3.55	4.24	
13:56:39	15.30	2.78	203.81	14.42	3.65	4.55	
13:56:59	15.34	2.73	224.22	14.41	3.65	44.66	
					[illegible]	[illegible]	Tap 5 - 2
13:57:19	15.41	2.68	246.20	6.67	12.45	8.55	
13:57:39	15.40	2.63	268.35	13.22	5.10	9.75	
13:57:59	15.40	2.61	281.61	14.12	3.95	21.68	
13:58:19	15.41	2.60	282.59	14.11	3.99	15.27	
13:58:39	15.44	2.61	274.37	14.19	3.98	18.16	
13:58:59	15.44	2.63	260.79	14.01	4.13	8.37	
13:59:19	15.40	2.63	245.50	13.59	4.67	5.31	
13:59:39	15.40	2.64	232.49	14.13	3.98	11.27	
					[illegible]	[illegible]	Tap 5 - 3
13:59:59	15.41	2.65	222.23	11.35	7.64	11.43	
14:00:19	15.43	2.66	217.25	13.01	5.43	6.71	
14:00:39	15.44	2.69	211.51	13.21	5.13	5.31	
14:00:59	15.39	2.72	201.41	13.14	5.22	4.94	
14:01:19	15.35	2.75	189.14	13.05	5.30	4.37	
14:01:39	15.33	2.78	180.30	12.85	5.50	4.38	
					[illegible]	[illegible]	Tap 5 - 4
14:01:59	15.33	2.81	177.40	11.70	7.36	4.09	
14:02:19	15.30	2.84	176.43	14.13	4.03	15.69	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:02:39	15.30	2.88	169.25	14.55	3.52	11.63	
14:02:59	15.28	2.90	155.88	14.44	3.68	6.03	
14:03:19	15.25	2.91	141.42	14.39	3.68	6.14	
14:03:39	15.24	2.92	130.80	14.58	3.50	5.97	
					[illegible]	[illegible]	Tap 6 - 1
14:03:59	15.23	2.91	133.27	11.99	6.83	3.92	
14:04:19	15.28	2.88	152.30	13.57	4.70	4.57	
14:04:39	15.31	2.84	182.43	13.84	4.40	4.82	
14:04:59	15.32	2.80	212.22	13.92	4.29	4.93	
14:05:19	15.32	2.77	230.08	13.68	4.59	4.75	
14:05:39	15.36	2.78	236.93	13.96	4.25	5.23	
14:05:59	15.35	2.79	234.61	13.66	4.67	8.48	
					[illegible]	[illegible]	Tap 6 - 2
14:06:19	15.31	2.82	227.74	10.22	9.19	4.55	
14:06:39	15.31	2.84	224.11	13.69	4.57	17.72	
14:06:59	15.27	2.86	219.79	13.76	4.44	11.85	
14:07:19	15.24	2.87	214.31	13.73	4.48	6.49	
14:07:39	15.26	2.89	211.92	13.74	4.49	5.06	
14:07:59	15.27	2.91	207.09	13.23	5.16	4.59	
14:08:19	15.24	2.92	200.40	13.39	4.97	5.15	
14:08:39	15.22	2.91	196.59	13.72	4.56	4.81	
14:08:59	15.25	2.90	196.31	13.67	4.54	5.26	
					[illegible]	[illegible]	Tap 6 - 3
14:09:19	15.26	2.88	194.03	10.61	8.54	2.76	
14:09:39	15.27	2.87	187.41	12.85	5.62	4.34	
14:09:59	15.31	2.85	179.20	12.68	5.82	5.11	
14:10:19	15.33	2.84	173.17	12.66	5.84	6.12	
14:10:39	15.33	2.82	169.30	12.83	5.41	5.40	
14:10:59	15.33	2.82	166.07	13.02	5.34	4.77	
14:11:19	15.33	2.83	160.96	13.08	5.34	5.83	
					[illegible]	[illegible]	Tap 6 - 4
14:11:39	15.36	2.83	154.76	12.12	7.30	8.68	
14:11:59	15.35	2.83	146.18	14.25	3.88	14.29	
14:12:19	15.33	2.85	135.84	14.27	3.85	12.96	
14:12:39	15.33	2.87	126.44	14.30	3.76	8.42	
					[illegible]	[illegible]	Tap 7 - 1
14:12:59	15.31	2.89	118.66	9.25	8.55	4.58	
14:13:19	15.33	2.93	112.93	13.53	4.69	5.67	
14:13:39	15.31	2.97	105.75	13.85	4.48	6.30	
14:13:59	15.27	3.01	98.34	13.91	4.40	6.47	
14:14:19	15.20	3.03	92.85	13.87	4.31	5.43	
					[illegible]	[illegible]	Tap 7 - 2
14:14:39	15.19	3.04	93.00	14.59	3.49	7.75	
14:14:59	15.18	3.05	105.52	11.47	6.02	5.42	
14:15:19	15.16	3.02	134.30	13.16	5.19	5.25	
14:15:39	15.17	2.98	169.30	13.70	4.54	5.71	
14:15:59	15.21	2.94	199.43	14.22	3.90	6.52	
14:16:19	15.20	2.91	214.86	13.99	4.21	7.42	
14:16:39	15.23	2.90	220.83	13.89	4.37	7.32	
					[illegible]	[illegible]	Tap 7 - 3
14:16:59	15.20	2.89	214.58	7.98	12.09	3.87	
14:17:19	15.31	2.87	182.11	13.00	5.32	5.34	
14:17:39	14.84	3.48	154.69	13.17	5.11	5.45	
14:17:59	14.40	3.96	129.95	13.53	4.74	5.16	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:18:19	14.28	4.15	114.11	13.28	5.00	45.05	
14:18:39	14.18	4.31	98.57	12.74	5.61	5.58	
							Tap 7 - 4
14:18:59	14.12	4.36	86.49	5.76	11.51	4.25	
14:19:19	14.12	4.33	75.67	0.22	20.80	2.42	
14:19:39	14.06	4.39	66.58	13.12	5.21	6.40	
14:19:59	13.94	4.48	58.92	14.32	3.67	24.45	
14:20:19	13.98	4.45	55.79	14.31	3.60	14.20	
14:20:39	14.05	4.41	54.15	14.34	3.84	6.86	
14:20:59	14.06	4.38	52.03	14.34	3.85	10.10	
							Tap 8 - 1
14:21:19	14.12	4.29	52.78	11.53	8.98	4.81	
14:21:39	14.19	4.21	52.94	13.82	4.45	5.71	
14:21:59	14.24	4.13	57.38	14.23	3.97	13.18	
14:22:19	14.27	4.08	64.84	14.33	3.73	6.07	
14:22:39	14.33	4.04	71.23	13.58	4.65	5.46	
							Tap 8 - 2
14:22:59	14.38	3.98	75.45	10.78	9.29	3.84	
14:23:19	14.39	3.93	76.78	13.15	5.13	5.62	
14:23:39	14.45	3.88	79.81	13.30	5.10	4.62	
14:23:59	14.52	3.82	83.28	13.66	4.60	5.47	
14:24:19	14.58	3.78	86.04	13.63	4.63	7.43	
14:24:39	14.62	3.76	88.44	13.69	4.59	5.70	
14:24:59	14.64	3.72	92.32	13.49	4.88	5.53	
							Tap 8 - 3
14:25:19	14.66	3.69	96.03	13.29	5.12	6.21	
14:25:39	14.65	3.67	99.29	7.10	13.83	3.84	
14:25:59	14.71	3.65	104.68	12.60	5.75	4.90	
14:26:19	14.74	3.64	107.86	12.56	5.85	5.15	
14:26:39	14.75	3.59	112.10	13.36	5.00	6.39	
14:26:59	14.75	3.60	110.62	13.07	5.28	6.72	
14:27:19	14.75	3.59	108.89	13.07	5.36	5.55	
14:27:39	14.75	3.60	106.80	13.07	5.37	5.66	
							Tap 8 - 4
14:27:59	14.80	3.58	111.10	9.69	11.17	212.06	
14:28:19	14.83	3.57	112.42	12.49	7.15	115.30	
14:28:39	14.81	3.58	108.64	14.67	3.13	713.36	
14:28:59	14.78	3.59	109.96	14.64	3.49	24.29	
14:29:19	14.77	3.60	114.42	14.06	4.04	39.84	
14:29:39	14.78	3.60	120.93	14.65	3.40	493.70	
14:29:59	14.77	3.61	125.01	14.99	3.03	259.92	
14:30:19	14.77	3.61	128.80	14.27	4.01	78.32	
14:30:39	14.78	3.59	134.97	14.94	2.96	226.45	
14:30:59	14.73	3.58	138.08	14.53	3.43	154.63	
							Tap 9 - 1
14:31:19	14.75	3.55	143.63	10.27	6.26	73.22	
14:31:39	14.76	3.57	145.88	13.62	4.75	15.60	
14:31:59	14.77	3.59	146.73	13.98	4.27	16.29	
14:32:19	14.74	3.61	143.04	14.13	4.06	36.74	
14:32:39	14.73	3.64	136.97	14.43	3.66	103.77	
14:32:59	14.68	3.67	128.60	14.18	4.02	14.20	
							Tap 9 - 2,3
14:33:19	14.70	3.69	122.99	13.24	4.47	40.10	
14:33:39	14.71	3.70	114.76	12.66	5.94	8.18	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:33:59	14.72	3.69	110.83	13.26	5.12	6.70	
14:34:19	14.69	3.72	102.55	13.17	5.23	6.29	
14:34:39	14.68	3.71	101.44	13.09	5.24	6.20	
					[illegible]	[illegible]	Tap 9 - 4
14:34:59	14.69	3.71	100.03	10.20	10.41	194.50	
14:35:19	14.71	3.70	102.35	15.13	2.57	308.49	
14:35:39	14.76	3.68	106.48	14.84	3.09	225.92	
14:35:59	14.75	3.69	107.63	15.41	2.54	160.65	
14:36:19	14.71	3.69	105.54	15.38	2.52	193.31	
14:36:39	14.72	3.70	105.08	15.13	2.90	66.86	
					[illegible]	[illegible]	Tap 10 - 1
14:36:59	14.73	3.68	106.78	10.52	6.18	32.56	
14:37:19	14.72	3.70	106.13	15.43	1.96	1228.07	
14:37:39	14.73	3.70	103.52	14.99	3.01	242.53	
14:37:59	14.73	3.72	100.89	15.68	2.19	567.95	
14:38:19	14.69	3.76	95.07	15.53	2.18	1226.60	
14:38:39	14.68	3.77	91.46	15.46	2.45	247.84	
14:38:59	14.69	3.76	91.76	15.50	2.49	408.09	
					[illegible]	[illegible]	Tap 10 - 2
14:39:19	14.67	3.77	89.11	14.76	1.66	1228.29	
14:39:39	14.63	3.80	86.49	13.78	4.51	282.45	
14:39:59	14.67	3.78	90.72	14.65	3.32	296.82	
14:40:19	14.67	3.79	90.24	15.28	2.51	1227.64	
14:40:39	14.67	3.80	87.57	14.77	3.25	516.26	
14:40:59	14.70	3.79	84.94	14.60	3.55	132.21	
14:41:19	14.66	3.78	79.13	14.58	3.50	92.13	
14:41:39	14.66	3.77	74.48	14.21	3.43	568.12	
					[illegible]	[illegible]	Tap 10 - 3
14:41:59	14.67	3.77	70.56	13.37	4.96	68.06	
14:42:19	14.67	3.75	67.46	13.45	4.91	21.59	
14:42:39	14.69	3.73	66.48	14.05	4.07	245.55	
14:42:59	14.70	3.72	66.30	13.12	5.35	10.80	
14:43:19	14.70	3.73	63.88	13.43	4.73	64.80	
14:43:39	14.68	3.74	65.38	13.01	5.44	11.61	
					[illegible]	[illegible]	Tap 10 - 4
14:43:59	14.69	3.76	67.09	6.50	15.50	18.84	
14:44:19	14.69	3.75	66.56	14.55	3.41	48.37	
14:44:39	14.67	3.76	64.58	15.03	2.97	38.35	
14:44:59	14.70	3.76	63.55	14.92	3.10	112.05	
					[illegible]	[illegible]	Tap 11 - 1
14:45:19	14.69	3.76	63.58	4.70	13.27	144.28	
14:45:39	14.68	3.73	64.91	14.49	3.60	58.12	
14:45:59	14.73	3.70	70.42	15.38	2.67	32.23	
14:46:19	14.80	3.68	78.45	16.02	1.67	1227.96	
14:46:39	14.82	3.65	84.51	15.17	2.77	97.68	
14:46:59	14.84	3.61	92.86	15.18	2.69	497.02	
14:47:19	14.87	3.60	103.87	15.25	2.72	155.39	
					[illegible]	[illegible]	Tap 11 - 2
14:47:39	14.88	3.58	115.34	9.56	11.42	119.79	
14:47:59	14.86	3.56	121.53	14.98	2.98	1193.23	
14:48:19	14.86	3.57	124.18	14.51	3.52	126.75	
14:48:39	14.87	3.57	126.93	14.81	3.43	290.80	
14:48:59	14.85	3.58	126.88	15.00	3.04	250.37	
14:49:19	14.86	3.56	130.64	14.19	3.47	409.69	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
					[illegible]	[illegible]	Tap 11 - 3
14:49:39	14.92	3.54	135.48	13.77	4.61	44.92	
14:49:59	14.88	3.56	135.39	14.51	3.60	242.87	
14:50:19	14.89	3.55	138.46	14.73	3.39	119.87	
14:50:39	14.93	3.54	143.62	14.32	3.86	144.23	
14:50:59	14.92	3.52	149.03	13.88	4.32	98.12	
14:51:19	14.89	3.51	156.94	13.70	4.64	19.89	
14:51:39	14.94	3.49	168.69	12.89	5.67	9.27	
14:51:59	14.96	3.50	168.31	13.09	5.29	22.18	
14:52:19	14.92	3.52	164.11	13.50	4.98	40.72	
					[illegible]	[illegible]	Tap 11 - 4
14:52:39	14.91	3.54	159.56	0.38	20.56	5.51	
14:52:59	14.90	3.55	155.02	11.83	8.15	120.18	
14:53:19	14.90	3.55	147.66	14.57	3.24	326.02	
14:53:39	14.91	3.56	139.76	14.97	3.04	113.08	
14:53:59	14.90	3.58	131.46	15.20	2.78	59.86	
					[illegible]	[illegible]	Tap 12 - 1
14:54:19	14.89	3.59	123.76	8.71	11.58	163.08	
14:54:39	14.90	3.61	118.36	15.01	2.83	226.52	
14:54:59	14.90	3.60	116.57	15.21	2.77	65.85	
14:55:19	14.88	3.63	109.82	15.84	1.84	1228.16	
14:55:39	14.87	3.61	108.19	15.08	2.94	117.11	
14:55:59	14.90	3.61	108.39	15.06	2.96	79.51	
14:56:19	14.88	3.62	105.47	16.34	1.36	1122.06	
					[illegible]	[illegible]	Tap 12 - 2
14:56:39	14.87	3.63	102.24	14.18	3.43	168.03	
14:56:59	14.90	3.62	102.70	15.22	2.74	965.86	
14:57:19	14.88	3.64	102.03	15.18	2.76	320.52	
14:57:39	14.88	3.64	103.97	15.72	2.19	379.98	
14:57:59	14.89	3.64	103.82	15.54	2.42	365.60	
					[illegible]	[illegible]	Tap 12 - 3
14:58:19	14.89	3.65	101.50	11.75	8.12	320.91	
14:58:39	14.88	3.68	99.84	13.48	4.69	379.53	
14:58:59	14.87	3.67	98.04	13.41	4.99	168.76	
14:59:19	14.86	3.70	94.97	13.76	4.48	392.30	
14:59:39	14.85	3.69	94.57	14.41	3.44	1228.19	
14:59:59	14.84	3.72	91.93	14.42	3.49	1228.22	
					[illegible]	[illegible]	Tap 12 - 4
15:00:19	14.85	3.71	91.31	13.08	4.66	831.54	
15:00:39	14.83	3.72	88.30	14.61	3.39	198.20	
15:00:59	14.83	3.74	87.41	15.11	2.70	660.65	
15:01:19	14.81	3.74	88.56	15.67	2.26	495.79	
15:01:39	14.81	3.74	89.82	15.28	2.69	223.76	
15:01:59	14.81	3.75	90.02	15.66	2.32	533.05	
					[illegible]	[illegible]	Tap 13 - 1
15:02:19	14.79	3.79	89.65	6.09	11.55	368.25	
15:02:39	14.77	3.82	87.60	15.69	2.23	355.62	
15:02:59	14.78	3.82	88.94	16.02	1.83	656.05	
15:03:19	14.80	3.81	89.92	16.43	1.41	273.26	
15:03:39	14.79	3.81	87.63	16.03	2.02	179.24	
					[illegible]	[illegible]	Tap 13 - 2
15:03:59	14.79	3.81	87.95	5.02	14.26	112.75	
15:04:19	14.80	3.81	88.75	15.64	2.15	1221.75	
15:04:39	14.79	3.82	85.90	16.26	1.46	1228.33	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:04:59	14.79	3.80	85.46	16.25	1.42	1228.43	
15:05:19	14.80	3.80	83.46	15.98	1.88	1130.99	
					[illegible]	[illegible]	Tap 13 - 3
15:05:39	14.78	3.80	80.92	11.29	8.58	1189.17	
15:05:59	14.79	3.79	80.00	15.35	2.57	708.02	
15:06:19	14.79	3.80	79.10	16.02	1.51	1228.23	
15:06:39	14.80	3.78	80.79	15.48	2.39	856.37	
15:06:59	14.84	3.76	86.88	15.89	1.92	1207.52	
15:07:19	14.87	3.73	93.75	15.70	2.28	385.90	
15:07:39	14.87	3.71	99.80	16.22	1.57	1228.42	
					[illegible]	[illegible]	Tap 13 - 4
15:07:59	14.88	3.70	103.36	8.82	11.75	238.02	
15:08:19	14.88	3.72	105.74	14.97	2.95	219.00	
15:08:39	14.87	3.72	105.12	14.89	3.18	195.33	
15:08:59	14.88	3.71	103.33	15.53	2.41	270.03	
15:09:19	14.88	3.73	100.01	15.40	2.49	820.33	
15:09:39	14.86	3.73	97.47	14.02	3.07	1064.94	
					[illegible]	[illegible]	Tap 14 - 1
15:09:59	14.81	3.79	91.55	14.34	3.79	457.11	
15:10:19	14.83	3.79	92.64	14.75	3.31	91.05	
15:10:39	14.83	3.79	98.29	15.15	2.92	118.37	
15:10:59	14.79	3.80	98.56	14.99	3.09	95.91	
					[illegible]	[illegible]	Tap 14 - 2
15:11:19	14.79	3.82	103.68	7.24	10.52	93.93	
15:11:39	14.78	3.84	111.61	15.15	2.85	409.98	
15:11:59	14.74	3.86	118.15	15.62	2.14	700.93	
15:12:19	14.79	3.85	125.01	16.20	1.53	1228.37	
15:12:39	14.77	3.87	122.67	15.43	2.41	781.85	
					[illegible]	[illegible]	Tap 14 - 3
15:12:59	14.77	3.89	118.50	14.85	3.18	1228.22	
15:13:19	14.79	3.87	115.42	15.89	1.87	1215.13	
15:13:39	14.82	3.87	112.00	15.99	1.65	1228.47	
15:13:59	14.82	3.86	107.68	15.86	1.70	1228.48	
15:14:19	14.79	3.85	104.07	16.00	1.67	1228.44	
15:14:39	14.85	3.81	104.46	16.17	1.58	1228.47	
					[illegible]	[illegible]	Tap 14 - 4

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:15:19	13.97	4.41	13.76	0.16	20.65	23.16	Test 22
13:15:39	13.88	4.52	13.66	0.01	20.85	5.66	
13:15:59	13.73	4.74	13.60	0.01	20.86	3.31	
13:16:19	13.48	5.05	13.98	0.01	20.88	2.84	
13:16:39	13.27	5.31	13.88	0.24	20.53	2.43	
13:16:59	13.12	5.43	14.18	8.84	9.92	10.81	
13:17:19	13.09	5.45	15.88	12.97	4.94	24.65	
13:17:39	13.14	5.35	14.80	14.06	3.68	35.69	
13:17:59	13.26	5.20	15.02	15.04	2.66	54.81	
13:18:19	13.38	5.03	14.59	15.32	2.41	66.18	
13:18:39	13.48	4.90	13.92	15.37	2.33	88.90	
13:18:59	13.57	4.78	12.65	15.52	2.19	177.29	
13:19:19	13.68	4.68	12.25	15.53	2.15	244.01	
13:19:39	13.73	4.61	12.23	15.05	2.89	268.17	
13:19:59	13.80	4.55	14.22	12.94	5.36	207.73	
13:20:19	13.83	4.48	15.66	14.08	3.82	138.32	
13:20:39	13.86	4.42	16.40	15.29	2.46	106.69	
13:20:59	13.92	4.39	18.48	15.49	2.25	89.04	
13:21:19	13.93	4.36	19.38	15.69	2.04	89.39	
13:21:39	13.95	4.35	20.15	15.88	1.88	98.78	
13:21:59	13.95	4.33	18.88	15.80	1.99	104.03	
13:22:19	13.97	4.32	18.92	13.63	4.71	122.19	
13:22:39	13.97	4.30	20.36	15.54	2.15	251.63	
13:22:59	14.00	4.28	24.91	15.22	2.56	71.42	
13:23:19	14.03	4.27	27.66	15.52	2.14	225.70	
13:23:39	14.03	4.26	27.37	15.25	2.56	103.11	
13:23:59	14.04	4.27	26.99	15.05	2.85	34.55	
13:24:19	14.01	4.28	25.78	9.03	10.67	75.97	
13:24:39	14.04	4.26	23.78	14.37	3.50	138.16	
13:24:59	14.07	4.23	23.23	15.35	2.20	1227.45	
13:25:19	14.11	4.22	21.34	14.65	3.12	259.92	
13:25:39	14.10	4.21	18.50	14.60	3.31	105.54	
13:25:59	14.08	4.22	15.60	14.75	3.17	30.41	
13:26:19	14.08	4.24	14.24	13.71	3.88	192.99	
13:26:39	14.07	4.26	13.72	13.59	4.73	52.25	
13:26:59	14.06	4.28	13.28	14.73	3.17	13.52	
13:27:19	14.05	4.32	13.47	14.70	3.27	24.51	
13:27:39	14.02	4.37	12.19	14.80	3.08	42.33	
13:27:59	13.97	4.40	11.27	15.07	2.79	26.79	
13:28:19	13.94	4.42	10.20	15.20	2.64	28.26	
13:28:39	13.95	4.42	10.00	14.11	3.65	31.61	
13:28:59	13.95	4.42	9.37	14.47	3.66	24.58	
13:29:19	13.94	4.41	8.31	15.50	2.18	73.37	
13:29:39	13.92	4.40	7.56	15.60	2.08	84.38	
13:29:59	13.92	4.40	6.48	15.87	1.78	189.68	
13:30:19	13.91	4.39	7.05	13.41	5.12	36.40	
13:30:39	13.96	4.38	7.41	14.93	2.91	95.58	
13:30:59	13.96	4.38	7.28	15.05	2.72	413.34	
13:31:19	13.97	4.37	6.66	14.97	2.81	440.59	
13:31:39	13.97	4.37	5.92	15.20	2.49	599.83	
13:31:59	13.98	4.38	6.25	11.01	8.00	697.98	
13:32:19	13.97	4.39	6.85	13.98	4.08	111.68	
13:32:39	13.95	4.39	7.53	14.59	3.21	406.13	
13:32:59	13.98	4.38	9.00	14.85	2.95	364.96	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:33:19	13.99	4.33	11.37	14.98	2.85	329.86
13:33:39	14.03	4.25	15.81	14.62	3.01	247.66
13:33:59	14.09	4.19	20.93	13.32	4.94	658.95
13:34:19	14.14	4.15	24.22	15.53	2.13	290.84
13:34:39	14.18	4.11	27.27	15.54	2.22	134.49
13:34:59	14.18	4.08	29.33	15.57	2.22	87.65
13:35:19	14.19	4.04	32.36	9.77	7.77	85.52
13:35:39	14.21	4.01	37.38	13.87	4.36	581.04
13:35:59	14.21	3.98	43.35	15.77	1.90	150.20
13:36:19	14.23	3.97	44.97	16.13	1.55	217.76
13:36:39	14.26	3.96	43.95	15.86	1.87	209.63
13:36:59	14.26	3.95	40.51	15.29	2.32	57.28
13:37:19	14.24	3.94	37.90	13.29	5.02	491.72
13:37:39	14.24	3.93	40.35	15.08	2.63	248.56
13:37:59	14.26	3.92	43.73	14.95	2.81	539.55
13:38:19	14.28	3.92	44.54	14.71	3.14	236.55
13:38:39	14.26	3.92	45.65	15.37	2.32	390.57
13:38:59	14.21	3.92	46.40	14.76	3.14	118.67
13:39:19	14.22	3.91	47.71	14.82	3.11	71.17
13:39:39	14.24	3.89	47.18	14.72	3.24	39.35
13:39:59	14.27	3.88	47.54	14.60	3.31	146.55
13:40:19	14.28	3.83	48.23	11.09	7.82	29.72
13:40:39	14.33	3.85	42.88	12.71	5.68	8.57
13:40:59	14.32	3.87	39.28	13.00	5.29	7.28
13:41:19	14.13	4.10	44.40	12.89	5.38	5.41
13:41:39	13.93	4.36	53.26	13.12	5.18	15.66
13:41:59	13.83	4.48	57.15	13.25	5.06	11.16
13:42:19	13.76	4.57	58.68	13.77	4.28	223.73
13:42:39	13.72	4.61	58.83	3.57	15.98	54.46
13:42:59	13.71	4.64	59.59	0.31	20.65	2.48
13:43:19	13.79	4.62	59.17	11.43	7.51	17.44
13:43:39	13.73	4.61	58.12	14.09	3.83	31.37
13:43:59	13.72	4.64	56.16	14.68	3.17	36.67
13:44:19	13.64	4.76	60.55	14.80	3.11	10.19
13:44:39	13.57	4.81	64.39	14.75	3.18	9.62
13:44:59	13.59	4.72	69.05	14.66	3.34	5.69
13:45:19	13.74	4.58	80.98	11.97	7.13	4.60
13:45:39	13.91	4.40	93.98	14.33	3.76	4.89
13:45:59	14.05	4.23	105.51	14.98	2.92	283.02
13:46:19	14.17	4.04	115.45	15.24	2.47	394.69
13:46:39	14.27	3.89	120.87	14.90	2.93	91.09
13:46:59	14.40	3.76	118.30	15.07	2.83	33.09
13:47:19	14.51	3.66	112.87	14.99	2.90	11.21
13:47:39	14.58	3.58	105.86	14.49	3.49	6.38
13:47:59	14.66	3.50	103.02	12.34	6.53	37.29
13:48:19	14.71	3.42	109.82	13.97	4.06	197.83
13:48:39	14.79	3.33	120.31	14.47	3.53	58.46
13:48:59	14.84	3.25	129.35	14.93	2.78	1014.55
13:49:19	14.90	3.17	137.43	14.71	3.12	378.42
13:49:39	14.97	3.12	144.21	14.84	2.86	956.49
13:49:59	14.97	3.08	148.25	14.38	3.48	234.06
13:50:19	14.99	3.04	159.42	12.30	6.19	75.98
13:50:39	15.04	2.97	179.72	13.30	4.96	14.72
13:50:59	15.12	2.91	202.14	13.34	4.91	20.18

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:51:19	15.20	2.84	233.49	13.56	4.63	13.83
13:51:39	15.25	2.77	262.76	12.53	5.92	6.70
13:51:59	15.28	2.72	286.11	12.65	5.79	5.29
13:52:19	15.31	2.67	301.69	12.60	5.82	5.21
13:52:39	15.35	2.63	312.45	12.32	6.14	4.33
13:52:59	15.39	2.59	323.53	10.68	8.76	3.86
13:53:19	15.42	2.57	329.28	14.12	3.94	8.30
13:53:39	15.42	2.56	332.68	14.80	3.16	12.95
13:53:59	15.41	2.57	326.24	14.85	3.11	16.46
13:54:19	15.37	2.61	309.91	14.89	3.03	33.67
13:54:39	15.37	2.67	291.76	14.63	3.21	36.06
13:54:59	15.35	2.73	266.88	13.57	4.89	7.79
13:55:19	15.32	2.78	240.54	15.02	2.89	40.30
13:55:39	15.28	2.82	216.68	14.71	3.30	11.10
13:55:59	15.24	2.83	199.32	14.57	3.47	5.28
13:56:19	15.24	2.82	195.91	14.51	3.55	4.24
13:56:39	15.30	2.78	203.81	14.42	3.65	4.55
13:56:59	15.34	2.73	224.22	14.41	3.65	44.66
13:57:19	15.41	2.68	246.20	6.67	12.45	8.55
13:57:39	15.40	2.63	268.35	13.22	5.10	9.75
13:57:59	15.40	2.61	281.61	14.12	3.95	21.68
13:58:19	15.41	2.60	282.59	14.11	3.99	15.27
13:58:39	15.44	2.61	274.37	14.19	3.98	18.16
13:58:59	15.44	2.63	260.79	14.01	4.13	8.37
13:59:19	15.40	2.63	245.50	13.59	4.67	5.31
13:59:39	15.40	2.64	232.49	14.13	3.98	11.27
13:59:59	15.41	2.65	222.23	11.35	7.64	11.43
14:00:19	15.43	2.66	217.25	13.01	5.43	6.71
14:00:39	15.44	2.69	211.51	13.21	5.13	5.31
14:00:59	15.39	2.72	201.41	13.14	5.22	4.94
14:01:19	15.35	2.75	189.14	13.05	5.30	4.37
14:01:39	15.33	2.78	180.30	12.85	5.50	4.38
14:01:59	15.33	2.81	177.40	11.70	7.36	4.09
14:02:19	15.30	2.84	176.43	14.13	4.03	15.69
14:02:39	15.30	2.88	169.25	14.55	3.52	11.63
14:02:59	15.28	2.90	155.88	14.44	3.68	6.03
14:03:19	15.25	2.91	141.42	14.39	3.68	6.14
14:03:39	15.24	2.92	130.80	14.58	3.50	5.97
14:03:59	15.23	2.91	133.27	11.99	6.83	3.92
14:04:19	15.28	2.88	152.30	13.57	4.70	4.57
14:04:39	15.31	2.84	182.43	13.84	4.40	4.82
14:04:59	15.32	2.80	212.22	13.92	4.29	4.93
14:05:19	15.32	2.77	230.08	13.68	4.59	4.75
14:05:39	15.36	2.78	236.93	13.96	4.25	5.23
14:05:59	15.35	2.79	234.61	13.66	4.67	8.48
14:06:19	15.31	2.82	227.74	10.22	9.19	4.55
14:06:39	15.31	2.84	224.11	13.69	4.57	17.72
14:06:59	15.27	2.86	219.79	13.76	4.44	11.85
14:07:19	15.24	2.87	214.31	13.73	4.48	6.49
14:07:39	15.26	2.89	211.92	13.74	4.49	5.06
14:07:59	15.27	2.91	207.09	13.23	5.16	4.59
14:08:19	15.24	2.92	200.40	13.39	4.97	5.15
14:08:39	15.22	2.91	196.59	13.72	4.56	4.81
14:08:59	15.25	2.90	196.31	13.67	4.54	5.26

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:09:19	15.26	2.88	194.03	10.61	8.54	2.76
14:09:39	15.27	2.87	187.41	12.85	5.62	4.34
14:09:59	15.31	2.85	179.20	12.68	5.82	5.11
14:10:19	15.33	2.84	173.17	12.66	5.84	6.12
14:10:39	15.33	2.82	169.30	12.83	5.41	5.40
14:10:59	15.33	2.82	166.07	13.02	5.34	4.77
14:11:19	15.33	2.83	160.96	13.08	5.34	5.83
14:11:39	15.36	2.83	154.76	12.12	7.30	8.68
14:11:59	15.35	2.83	146.18	14.25	3.88	14.29
14:12:19	15.33	2.85	135.84	14.27	3.85	12.96
14:12:39	15.33	2.87	126.44	14.30	3.76	8.42
14:12:59	15.31	2.89	118.66	9.25	8.55	4.58
14:13:19	15.33	2.93	112.93	13.53	4.69	5.67
14:13:39	15.31	2.97	105.75	13.85	4.48	6.30
14:13:59	15.27	3.01	98.34	13.91	4.40	6.47
14:14:19	15.20	3.03	92.85	13.87	4.31	5.43
14:14:39	15.19	3.04	93.00	14.59	3.49	7.75
14:14:59	15.18	3.05	105.52	11.47	6.02	5.42
14:15:19	15.16	3.02	134.30	13.16	5.19	5.25
14:15:39	15.17	2.98	169.30	13.70	4.54	5.71
14:15:59	15.21	2.94	199.43	14.22	3.90	6.52
14:16:19	15.20	2.91	214.86	13.99	4.21	7.42
14:16:39	15.23	2.90	220.83	13.89	4.37	7.32
14:16:59	15.20	2.89	214.58	7.98	12.09	3.87
14:17:19	15.31	2.87	182.11	13.00	5.32	5.34
14:17:39	14.84	3.48	154.69	13.17	5.11	5.45
14:17:59	14.40	3.96	129.95	13.53	4.74	5.16
14:18:19	14.28	4.15	114.11	13.28	5.00	45.05
14:18:39	14.18	4.31	98.57	12.74	5.61	5.58
14:18:59	14.12	4.36	86.49	5.76	11.51	4.25
14:19:19	14.12	4.33	75.67	0.22	20.80	2.42
14:19:39	14.06	4.39	66.58	13.12	5.21	6.40
14:19:59	13.94	4.48	58.92	14.32	3.67	24.45
14:20:19	13.98	4.45	55.79	14.31	3.60	14.20
14:20:39	14.05	4.41	54.15	14.34	3.84	6.86
14:20:59	14.06	4.38	52.03	14.34	3.85	10.10
14:21:19	14.12	4.29	52.78	11.53	8.98	4.81
14:21:39	14.19	4.21	52.94	13.82	4.45	5.71
14:21:59	14.24	4.13	57.38	14.23	3.97	13.18
14:22:19	14.27	4.08	64.84	14.33	3.73	6.07
14:22:39	14.33	4.04	71.23	13.58	4.65	5.46
14:22:59	14.38	3.98	75.45	10.78	9.29	3.84
14:23:19	14.39	3.93	76.78	13.15	5.13	5.62
14:23:39	14.45	3.88	79.81	13.30	5.10	4.62
14:23:59	14.52	3.82	83.28	13.66	4.60	5.47
14:24:19	14.58	3.78	86.04	13.63	4.63	7.43
14:24:39	14.62	3.76	88.44	13.69	4.59	5.70
14:24:59	14.64	3.72	92.32	13.49	4.88	5.53
14:25:19	14.66	3.69	96.03	13.29	5.12	6.21
14:25:39	14.65	3.67	99.29	7.10	13.83	3.84
14:25:59	14.71	3.65	104.68	12.60	5.75	4.90
14:26:19	14.74	3.64	107.86	12.56	5.85	5.15
14:26:39	14.75	3.59	112.10	13.36	5.00	6.39
14:26:59	14.75	3.60	110.62	13.07	5.28	6.72

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:27:19	14.75	3.59	108.89	13.07	5.36	5.55
14:27:39	14.75	3.60	106.80	13.07	5.37	5.66
14:27:59	14.80	3.58	111.10	9.69	11.17	212.06
14:28:19	14.83	3.57	112.42	12.49	7.15	115.30
14:28:39	14.81	3.58	108.64	14.67	3.13	713.36
14:28:59	14.78	3.59	109.96	14.64	3.49	24.29
14:29:19	14.77	3.60	114.42	14.06	4.04	39.84
14:29:39	14.78	3.60	120.93	14.65	3.40	493.70
14:29:59	14.77	3.61	125.01	14.99	3.03	259.92
14:30:19	14.77	3.61	128.80	14.27	4.01	78.32
14:30:39	14.78	3.59	134.97	14.94	2.96	226.45
14:30:59	14.73	3.58	138.08	14.53	3.43	154.63
14:31:19	14.75	3.55	143.63	10.27	6.26	73.22
14:31:39	14.76	3.57	145.88	13.62	4.75	15.60
14:31:59	14.77	3.59	146.73	13.98	4.27	16.29
14:32:19	14.74	3.61	143.04	14.13	4.06	36.74
14:32:39	14.73	3.64	136.97	14.43	3.66	103.77
14:32:59	14.68	3.67	128.60	14.18	4.02	14.20
14:33:19	14.70	3.69	122.99	13.24	4.47	40.10
14:33:39	14.71	3.70	114.76	12.66	5.94	8.18
14:33:59	14.72	3.69	110.83	13.26	5.12	6.70
14:34:19	14.69	3.72	102.55	13.17	5.23	6.29
14:34:39	14.68	3.71	101.44	13.09	5.24	6.20
14:34:59	14.69	3.71	100.03	10.20	10.41	194.50
14:35:19	14.71	3.70	102.35	15.13	2.57	308.49
14:35:39	14.76	3.68	106.48	14.84	3.09	225.92
14:35:59	14.75	3.69	107.63	15.41	2.54	160.65
14:36:19	14.71	3.69	105.54	15.38	2.52	193.31
14:36:39	14.72	3.70	105.08	15.13	2.90	66.86
14:36:59	14.73	3.68	106.78	10.52	6.18	32.56
14:37:19	14.72	3.70	106.13	15.43	1.96	1228.07
14:37:39	14.73	3.70	103.52	14.99	3.01	242.53
14:37:59	14.73	3.72	100.89	15.68	2.19	567.95
14:38:19	14.69	3.76	95.07	15.53	2.18	1226.60
14:38:39	14.68	3.77	91.46	15.46	2.45	247.84
14:38:59	14.69	3.76	91.76	15.50	2.49	408.09
14:39:19	14.67	3.77	89.11	14.76	1.66	1228.29
14:39:39	14.63	3.80	86.49	13.78	4.51	282.45
14:39:59	14.67	3.78	90.72	14.65	3.32	296.82
14:40:19	14.67	3.79	90.24	15.28	2.51	1227.64
14:40:39	14.67	3.80	87.57	14.77	3.25	516.26
14:40:59	14.70	3.79	84.94	14.60	3.55	132.21
14:41:19	14.66	3.78	79.13	14.58	3.50	92.13
14:41:39	14.66	3.77	74.48	14.21	3.43	568.12
14:41:59	14.67	3.77	70.56	13.37	4.96	68.06
14:42:19	14.67	3.75	67.46	13.45	4.91	21.59
14:42:39	14.69	3.73	66.48	14.05	4.07	245.55
14:42:59	14.70	3.72	66.30	13.12	5.35	10.80
14:43:19	14.70	3.73	63.88	13.43	4.73	64.80
14:43:39	14.68	3.74	65.38	13.01	5.44	11.61
14:43:59	14.69	3.76	67.09	6.50	15.50	18.84
14:44:19	14.69	3.75	66.56	14.55	3.41	48.37
14:44:39	14.67	3.76	64.58	15.03	2.97	38.35
14:44:59	14.70	3.76	63.55	14.92	3.10	112.05

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:45:19	14.69	3.76	63.58	4.70	13.27	144.28
14:45:39	14.68	3.73	64.91	14.49	3.60	58.12
14:45:59	14.73	3.70	70.42	15.38	2.67	32.23
14:46:19	14.80	3.68	78.45	16.02	1.67	1227.96
14:46:39	14.82	3.65	84.51	15.17	2.77	97.68
14:46:59	14.84	3.61	92.86	15.18	2.69	497.02
14:47:19	14.87	3.60	103.87	15.25	2.72	155.39
14:47:39	14.88	3.58	115.34	9.56	11.42	119.79
14:47:59	14.86	3.56	121.53	14.98	2.98	1193.23
14:48:19	14.86	3.57	124.18	14.51	3.52	126.75
14:48:39	14.87	3.57	126.93	14.81	3.43	290.80
14:48:59	14.85	3.58	126.88	15.00	3.04	250.37
14:49:19	14.86	3.56	130.64	14.19	3.47	409.69
14:49:39	14.92	3.54	135.48	13.77	4.61	44.92
14:49:59	14.88	3.56	135.39	14.51	3.60	242.87
14:50:19	14.89	3.55	138.46	14.73	3.39	119.87
14:50:39	14.93	3.54	143.62	14.32	3.86	144.23
14:50:59	14.92	3.52	149.03	13.88	4.32	98.12
14:51:19	14.89	3.51	156.94	13.70	4.64	19.89
14:51:39	14.94	3.49	168.69	12.89	5.67	9.27
14:51:59	14.96	3.50	168.31	13.09	5.29	22.18
14:52:19	14.92	3.52	164.11	13.50	4.98	40.72
14:52:39	14.91	3.54	159.56	0.38	20.56	5.51
14:52:59	14.90	3.55	155.02	11.83	8.15	120.18
14:53:19	14.90	3.55	147.66	14.57	3.24	326.02
14:53:39	14.91	3.56	139.76	14.97	3.04	113.08
14:53:59	14.90	3.58	131.46	15.20	2.78	59.86
14:54:19	14.89	3.59	123.76	8.71	11.58	163.08
14:54:39	14.90	3.61	118.36	15.01	2.83	226.52
14:54:59	14.90	3.60	116.57	15.21	2.77	65.85
14:55:19	14.88	3.63	109.82	15.84	1.84	1228.16
14:55:39	14.87	3.61	108.19	15.08	2.94	117.11
14:55:59	14.90	3.61	108.39	15.06	2.96	79.51
14:56:19	14.88	3.62	105.47	16.34	1.36	1122.06
14:56:39	14.87	3.63	102.24	14.18	3.43	168.03
14:56:59	14.90	3.62	102.70	15.22	2.74	965.86
14:57:19	14.88	3.64	102.03	15.18	2.76	320.52
14:57:39	14.88	3.64	103.97	15.72	2.19	379.98
14:57:59	14.89	3.64	103.82	15.54	2.42	365.60
14:58:19	14.89	3.65	101.50	11.75	8.12	320.91
14:58:39	14.88	3.68	99.84	13.48	4.69	379.53
14:58:59	14.87	3.67	98.04	13.41	4.99	168.76
14:59:19	14.86	3.70	94.97	13.76	4.48	392.30
14:59:39	14.85	3.69	94.57	14.41	3.44	1228.19
14:59:59	14.84	3.72	91.93	14.42	3.49	1228.22
15:00:19	14.85	3.71	91.31	13.08	4.66	831.54
15:00:39	14.83	3.72	88.30	14.61	3.39	198.20
15:00:59	14.83	3.74	87.41	15.11	2.70	660.65
15:01:19	14.81	3.74	88.56	15.67	2.26	495.79
15:01:39	14.81	3.74	89.82	15.28	2.69	223.76
15:01:59	14.81	3.75	90.02	15.66	2.32	533.05
15:02:19	14.79	3.79	89.65	6.09	11.55	368.25
15:02:39	14.77	3.82	87.60	15.69	2.23	355.62
15:02:59	14.78	3.82	88.94	16.02	1.83	656.05

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
15:03:19	14.80	3.81	89.92	16.43	1.41	273.26
15:03:39	14.79	3.81	87.63	16.03	2.02	179.24
15:03:59	14.79	3.81	87.95	5.02	14.26	112.75
15:04:19	14.80	3.81	88.75	15.64	2.15	1221.75
15:04:39	14.79	3.82	85.90	16.26	1.46	1228.33
15:04:59	14.79	3.80	85.46	16.25	1.42	1228.43
15:05:19	14.80	3.80	83.46	15.98	1.88	1130.99
15:05:39	14.78	3.80	80.92	11.29	8.58	1189.17
15:05:59	14.79	3.79	80.00	15.35	2.57	708.02
15:06:19	14.79	3.80	79.10	16.02	1.51	1228.23
15:06:39	14.80	3.78	80.79	15.48	2.39	856.37
15:06:59	14.84	3.76	86.88	15.89	1.92	1207.52
15:07:19	14.87	3.73	93.75	15.70	2.28	385.90
15:07:39	14.87	3.71	99.80	16.22	1.57	1228.42
15:07:59	14.88	3.70	103.36	8.82	11.75	238.02
15:08:19	14.88	3.72	105.74	14.97	2.95	219.00
15:08:39	14.87	3.72	105.12	14.89	3.18	195.33
15:08:59	14.88	3.71	103.33	15.53	2.41	270.03
15:09:19	14.88	3.73	100.01	15.40	2.49	820.33
15:09:39	14.86	3.73	97.47	14.02	3.07	1064.94
15:09:59	14.81	3.79	91.55	14.34	3.79	457.11
15:10:19	14.83	3.79	92.64	14.75	3.31	91.05
15:10:39	14.83	3.79	98.29	15.15	2.92	118.37
15:10:59	14.79	3.80	98.56	14.99	3.09	95.91
15:11:19	14.79	3.82	103.68	7.24	10.52	93.93
15:11:39	14.78	3.84	111.61	15.15	2.85	409.98
15:11:59	14.74	3.86	118.15	15.62	2.14	700.93
15:12:19	14.79	3.85	125.01	16.20	1.53	1228.37
15:12:39	14.77	3.87	122.67	15.43	2.41	781.85
15:12:59	14.77	3.89	118.50	14.85	3.18	1228.22
15:13:19	14.79	3.87	115.42	15.89	1.87	1215.13
15:13:39	14.82	3.87	112.00	15.99	1.65	1228.47
15:13:59	14.82	3.86	107.68	15.86	1.70	1228.48
15:14:19	14.79	3.85	104.07	16.00	1.67	1228.44
15:14:39	14.85	3.81	104.46	16.17	1.58	1228.47
15:14:59	14.86	3.80	103.73	8.06	7.95	568.43
15:15:19	14.87	3.76	107.49	8.08	8.39	575.67
15:15:39	14.90	3.74	110.41	6.00	17.69	74.39
15:15:59	14.90	3.73	113.89	14.15	4.13	303.99
15:16:19	14.93	3.70	119.82	14.37	3.71	385.85
15:16:39	14.94	3.66	127.91	14.44	3.64	378.00
15:16:59	14.97	3.63	134.25	14.49	3.58	314.26
15:17:19	14.95	3.63	133.35	14.57	3.52	253.73
15:17:39	14.96	3.63	133.20	14.55	3.54	256.49
15:17:59	14.97	3.63	132.02	14.51	3.60	283.60
15:18:19	14.97	3.63	129.21	14.40	3.72	245.68
15:18:39	14.97	3.64	123.83	14.36	3.77	280.54
15:18:59	14.98	3.64	118.07	14.35	3.80	316.76
15:19:19	14.98	3.64	113.71	14.34	3.83	275.40
15:19:39	14.96	3.64	107.45	14.31	3.83	267.97
15:19:59	14.95	3.67	101.11	14.38	3.76	308.27
15:20:19	14.97	3.67	98.78	14.43	3.71	290.70
15:20:39	14.96	3.65	97.76	14.38	3.73	253.63
15:20:59	14.95	3.67	96.58	14.43	3.70	239.65

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
15:21:19	14.97	3.65	98.88	14.53	3.62	290.30
15:21:39	14.97	3.64	98.88	14.53	3.56	297.05
15:21:59	14.96	3.62	101.54	14.54	3.58	287.71
15:22:19	14.98	3.64	99.93	14.55	3.59	305.61
15:22:39	14.98	3.64	99.18	14.48	3.63	323.54
15:22:59	14.97	3.62	99.41	14.47	3.69	321.84
15:23:19	15.00	3.63	100.63	14.46	3.70	293.22
15:23:39	14.98	3.64	100.59	14.47	3.68	301.07
15:23:59	14.98	3.66	99.52	14.47	3.67	337.39
15:24:19	14.99	3.65	100.48	14.46	3.68	325.34
15:24:39	14.98	3.66	102.14	14.46	3.69	293.87
15:24:59	14.97	3.66	103.35	14.44	3.70	280.67
15:25:19	14.97	3.65	105.11	14.46	3.73	259.78
15:25:39	14.99	3.65	108.41	14.48	3.71	262.91
15:25:59	14.97	3.65	109.15	14.49	3.68	305.83
15:26:19	14.98	3.64	111.81	14.46	3.71	279.93
15:26:39	14.98	3.67	111.73	14.40	3.78	235.15
15:26:59	14.99	3.63	116.18	14.37	3.84	211.68
15:27:19	14.98	3.64	118.00	14.36	3.84	223.66
15:27:39	14.98	3.65	119.55	14.38	3.83	213.39
15:27:59	14.97	3.66	122.18	14.41	3.78	256.33
15:28:19	14.94	3.66	120.85	14.45	3.71	327.32
15:28:39	14.99	3.64	127.75	14.51	3.67	318.20
15:28:59	14.97	3.65	132.32	14.50	3.69	285.33
15:29:19	14.96	3.66	133.74	14.45	3.74	276.20
15:29:39	14.97	3.64	141.33	14.45	3.75	255.21
15:29:59	14.95	3.69	142.50	14.44	3.77	226.89
15:30:19	14.97	3.68	147.56	14.42	3.79	199.74
15:30:39	14.94	3.70	144.29	14.42	3.82	190.96
15:30:59	14.93	3.72	138.76	14.42	3.84	183.35
15:31:19	14.93	3.72	136.95	14.44	3.79	177.85
15:31:39	14.91	3.72	135.31	14.48	3.73	187.63
15:31:59	14.94	3.72	135.06	14.51	3.71	212.57
15:32:19	14.95	3.70	137.69	14.50	3.69	237.89
15:32:39	14.92	3.71	136.68	14.53	3.65	225.40
15:32:59	14.93	3.72	137.05	14.58	3.64	207.22
15:33:19	14.93	3.71	138.79	14.60	3.58	242.30
15:33:39	14.93	3.71	137.14	14.64	3.51	320.61
15:33:59	14.94	3.69	142.79	14.68	3.46	338.70
15:34:19	14.95	3.70	143.56	14.64	3.50	317.46
15:34:39	14.95	3.70	141.67	14.62	3.60	301.10
15:34:59	14.93	3.72	138.45	14.52	3.72	282.18
15:35:19	14.92	3.76	134.32	14.48	3.75	250.72
15:35:39	14.92	3.78	130.01	14.51	3.72	295.16
15:35:59	14.91	3.79	126.55	14.57	3.65	364.06
15:36:19	14.93	3.82	120.90	14.58	3.58	370.44
15:36:39	14.87	3.85	110.70	14.62	3.56	351.54
15:36:59	14.89	3.85	106.34	14.63	3.53	340.90
15:37:19	14.86	3.88	98.08	14.65	3.51	364.21
15:37:39	14.85	3.90	91.59	14.66	3.49	396.61
15:37:59	14.85	3.91	86.97	14.65	3.51	406.31
15:38:19	14.87	3.91	84.42	14.66	3.50	409.49
15:38:39	14.83	3.93	78.94	14.68	3.48	385.35
15:38:59	14.80	3.92	77.08	14.64	3.53	355.74

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:39:19	14.78	3.93	73.31	14.59	3.62	314.72	
15:39:39	14.77	3.94	68.76	14.51	3.68	299.20	
15:39:59	14.78	3.92	64.98	14.50	3.69	306.41	
15:40:19	14.80	3.93	62.29	14.50	3.73	298.00	
average	14.93	3.72	113.53	14.51	3.67	287.10	Test 22
minimum	14.77	3.62	62.29	14.36	3.46	177.85	
maximum	15.00	3.94	147.56	14.68	3.84	409.49	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	
Units:	%CO2	%O2	PPM_CO	
Group:				
Tag:	EastCO2	EastO2	EastCO	
Sensor Name	CO2_101	O2_101	CO_101	
9:57:30	13.39	3.95	22.50	Test 23
9:57:40	13.37	3.88	24.90	
9:57:50	13.39	3.77	27.15	
9:58:00	13.38	3.68	26.46	
9:58:10	13.33	3.58	68.39	
9:58:20	13.34	3.68	75.33	
9:58:30	13.37	3.60	68.73	
9:58:40	13.38	3.48	80.41	
9:58:50	13.40	3.86	62.04	
9:59:00	13.45	4.07	54.99	
9:59:10	13.48	3.81	54.98	
9:59:20	13.50	3.62	41.27	
9:59:30	13.51	3.97	33.72	
9:59:40	13.51	3.94	25.86	
9:59:50	13.51	3.84	22.17	
10:00:00	13.52	3.94	23.81	
10:00:10	13.52	3.87	22.32	
10:00:20	13.51	3.85	19.77	
10:00:30	13.51	3.68	26.47	
10:00:40	13.52	3.58	38.71	
10:00:50	13.53	3.64	35.62	
10:01:00	13.54	3.76	36.50	
10:01:10	13.52	3.83	36.67	
10:01:20	13.56	3.81	29.55	
		3.80	31.96	Tap 1 - 1
10:01:30	13.52	6.52	38.02	
10:01:40	13.52	6.43	38.13	
10:01:50	13.47	4.74	50.34	
10:02:00	13.36	4.18	51.65	
10:02:10	13.26	4.05	65.06	
10:02:20	13.22	3.63	77.77	
10:02:30	13.21	3.60	60.10	
10:02:40	13.24	3.57	44.14	
10:02:50	13.23	3.36	55.62	
10:03:00	13.29	3.66	44.13	
10:03:10	13.32	3.99	26.46	
10:03:20	13.37	4.26	18.69	
10:03:30	13.37	4.24	15.71	
10:03:40	13.39	4.07	19.92	
10:03:50	13.38	4.22	18.56	
10:04:00	13.36	4.15	15.17	
10:04:10	13.35	4.10	11.14	
		3.92	9.11	Tap 1 - 2
10:04:20	13.33	7.52	10.60	
10:04:30	13.32	5.47	17.75	
10:04:40	13.24	4.73	25.95	

10:04:50	13.15	4.42	34.34	
10:05:00	13.10	4.05	27.27	
10:05:10	13.08	4.04	23.75	
10:05:20	13.08	3.95	25.89	
10:05:30	13.08	3.96	27.73	
10:05:40	13.08	4.02	38.99	
10:05:50	13.09	4.00	49.47	
10:06:00	13.13	4.11	38.28	
10:06:10	13.15	4.30	28.28	
10:06:20	13.15	4.23	24.20	
10:06:30	13.18	3.96	26.26	
		4.06	31.01	Tap 1 - 3
10:06:40	13.16	5.49	31.58	
10:06:50	13.13	7.46	66.48	
10:07:00	13.10	4.76	323.60	
10:07:10	13.00	3.51	547.08	
10:07:20	12.97	3.25	393.08	
10:07:30	12.96	3.34	346.19	
10:07:40	13.01	3.24	392.44	
10:07:50	13.06	3.22	324.23	
10:08:00	13.10	3.03	243.28	
10:08:10	13.17	2.83	250.17	
10:08:20	13.23	2.62	632.93	
10:08:30	13.31	2.41	1089.21	
10:08:40	13.39	2.40	1182.12	
10:08:50	13.48	2.75	956.27	
10:09:00	13.55	3.50	542.23	
		4.23	576.17	Tap 1 - 4
10:09:10	13.60	7.58	288.90	
10:09:20	13.63	5.60	158.04	
10:09:30	13.59	4.46	100.35	
10:09:40	13.48	4.01	81.82	
10:09:50	13.43	4.08	59.21	
10:10:00	13.43	4.17	37.14	
10:10:10	13.41	4.38	26.16	
10:10:20	13.40	4.50	25.76	
10:10:30	13.38	4.34	24.35	
10:10:40	13.36	4.14	19.85	
10:10:50	13.34	4.19	16.14	
10:11:00	13.33	4.46	15.01	
10:11:10	13.30	4.73	21.44	
10:11:20	13.31	4.41	23.76	
10:11:30	13.29	3.94	25.07	
10:11:40	13.15	3.67	73.68	
10:11:50	13.18	4.01	88.81	
		4.73	40.54	Tap 2 - 1
10:12:00	13.16	10.66	54.74	
10:12:10	13.13	13.94	28.74	
10:12:20	13.00	9.20	21.93	
10:12:30	12.72	5.86	11.44	
10:12:40	12.44	4.88	6.44	
10:12:50	12.22	4.19	9.85	

10:13:00	12.12	3.83	35.20	
10:13:10	12.11	3.67	46.38	
10:13:20	12.13	3.82	24.32	
10:13:30	12.21	3.77	13.38	
10:13:40	12.29	3.42	8.03	
10:13:50	12.39	3.28	6.58	
10:14:00	12.51	3.14	20.99	
10:14:10	12.63	3.18	15.68	
10:14:20	12.72	3.03	12.91	
10:14:30	12.85	3.23	7.85	
		3.39	17.35	Tap 2 - 2
10:14:40	12.92	4.46	11.78	
10:14:50	13.02	6.42	13.08	
10:15:00	13.08	4.76	15.21	
10:15:10	13.03	3.78	91.41	
10:15:20	13.03	3.44	97.00	
10:15:30	13.02	3.35	65.87	
10:15:40	13.09	3.32	44.56	
10:15:50	13.15	3.10	57.26	
10:16:00	13.20	2.78	94.60	
10:16:10	13.27	2.56	88.94	
10:16:20	13.32	2.80	84.92	
10:16:30	13.44	2.84	127.77	
10:16:40	13.52	2.86	196.12	
10:16:50	13.57	3.15	164.01	
10:17:00	13.67	3.12	128.11	
		2.99	101.21	Tap 2 - 3
10:17:10	13.70	4.48	97.14	
10:17:20	13.72	8.23	85.38	
10:17:30	13.71	5.30	176.38	
10:17:40	13.62	3.86	185.61	
10:17:50	13.51	3.39	154.48	
10:18:00	13.45	3.10	149.88	
10:18:10	13.46	2.98	192.25	
10:18:20	13.45	2.95	220.41	
10:18:30	13.49	2.71	316.72	
10:18:40	13.56	2.50	406.62	
10:18:50	13.59	2.36	562.99	
10:19:00	13.63	2.56	619.59	
10:19:10	13.72	2.89	409.10	
10:19:20	13.79	2.99	275.02	
10:19:30	13.84	2.91	262.59	
10:19:40	13.88	2.94	205.41	
		2.79	31.97	Tap 2 - 4
10:19:50	13.89	8.33	144.51	
10:20:00	13.89	6.33	94.68	
10:20:10	13.78	4.89	76.80	
10:20:20	13.66	4.59	50.05	
10:20:30	13.56	4.46	35.91	
10:20:40	13.48	4.45	28.73	
10:20:50	13.43	4.51	20.91	
10:21:00	13.37	4.36	15.39	

10:21:10	13.36	4.26	17.79	
10:21:20	13.32	4.23	14.54	
10:21:30	13.29	4.07	11.98	
10:21:40	13.28	4.25	11.59	
10:21:50	13.28	4.29	13.45	
10:22:00	13.24	4.31	9.27	
10:22:10	13.26	4.20	7.98	
		4.33	19.80	Tap 3 - 1
10:22:20	13.22	5.86	8.80	
10:22:30	13.21	7.21	4.33	
10:22:40	13.14	5.07	4.15	
10:22:50	13.06	4.23	8.71	
10:23:00	13.00	4.20	5.15	
10:23:10	12.97	3.86	4.24	
10:23:20	12.97	3.91	3.62	
10:23:30	12.99	4.24	2.17	
10:23:40	13.03	4.06	1.43	
10:23:50	13.04	4.17	1.79	
10:24:00	13.08	4.11	1.51	
10:24:10	13.11	4.14	2.35	
10:24:20	13.12	3.90	3.26	
10:24:30	13.14	3.96	3.09	
10:24:40	13.17	4.03	1.49	
10:24:50	13.19	3.68	0.65	
10:25:00	13.22	3.73	0.50	
		3.98	2.18	Tap 3 - 2
10:25:10	13.26	4.00	0.36	
10:25:20	13.27	7.56	7.54	
10:25:30	13.24	5.67	85.32	
10:25:40	13.19	3.86	255.84	
10:25:50	13.14	3.38	208.82	
10:26:00	13.12	3.04	206.91	
10:26:10	13.14	2.96	238.43	
10:26:20	13.19	2.88	174.22	
10:26:30	13.25	2.72	353.89	
10:26:40	13.33	2.66	725.50	
10:26:50	13.39	2.67	671.07	
10:27:00	13.48	2.82	438.44	
10:27:10	13.57	2.93	226.48	
10:27:20	13.61	3.02	140.14	
10:27:30	13.71	2.89	205.11	
		2.85	336.12	Tap 3 - 3
10:27:40	13.72	6.18	245.93	
10:27:50	13.75	7.99	164.03	
10:28:00	13.70	5.52	281.24	
10:28:10	13.56	4.40	441.28	
10:28:20	13.43	4.08	382.70	
10:28:30	13.34	3.87	297.14	
10:28:40	13.30	3.76	341.03	
10:28:50	13.29	3.62	707.35	
10:29:00	13.30	3.70	564.88	
10:29:10	13.32	3.65	373.43	

10:29:20	13.34	3.74	332.43	
10:29:30	13.35	3.64	391.33	
10:29:40	13.35	3.66	636.59	
10:29:50	13.39	3.82	559.48	
10:30:00	13.34	3.88	553.52	
		3.79	475.72	Tap 3 - 4
10:30:10	13.32	4.88	544.64	
10:30:20	13.30	12.14	267.81	
10:30:30	13.15	15.32	134.15	
10:30:40	12.93	12.79	71.50	
10:30:50	12.57	7.75	37.05	
10:31:00	12.18	5.93	22.15	
10:31:10	11.84	5.27	13.11	
10:31:20	11.67	4.93	7.58	
10:31:30	11.60	4.50	5.28	
10:31:40	11.59	4.35	4.10	
10:31:50	11.64	4.35	3.43	
10:32:00	11.70	4.36	2.00	
10:32:10	11.79	4.43	1.36	
10:32:20	11.86	4.49	1.08	
10:32:30	11.96	4.50	0.57	
10:32:40	12.06	4.36	0.37	
10:32:50	12.14	4.55	0.68	
10:33:00	12.22	4.63	0.18	
10:33:10	12.31	4.48	0.29	
		4.46	1.76	Tap 4 - 1
10:33:20	12.32	8.13	-0.01	
10:33:30	12.40	6.94	1.30	
10:33:40	12.36	5.08	2.41	
10:33:50	12.33	4.48	5.92	
10:34:00	12.31	4.05	14.03	
10:34:10	12.33	3.89	16.37	
10:34:20	12.38	3.95	12.96	
10:34:30	12.44	4.06	7.36	
10:34:40	12.53	4.11	4.88	
10:34:50	12.61	4.10	5.95	
10:35:00	12.68	4.04	6.65	
		4.08	9.78	Tap 4 - 2
10:35:10	12.74	4.48	7.19	
10:35:20	12.78	7.57	16.33	
10:35:30	12.82	5.44	43.89	
10:35:40	12.74	4.19	151.36	
10:35:50	12.70	3.63	250.55	
10:36:00	12.69	3.46	190.66	
10:36:10	12.74	3.39	165.38	
10:36:20	12.83	3.31	212.15	
10:36:30	12.91	3.28	323.08	
10:36:40	12.97	3.34	333.85	
10:36:50	13.03	3.22	422.07	
10:37:00	13.13	3.51	294.45	
		3.39	271.92	Tap 4 - 3
10:37:10	13.18	7.20	243.18	

10:37:20	13.22	6.04	179.55	
10:37:30	13.18	5.16	180.70	
10:37:40	13.10	4.85	164.82	
10:37:50	13.07	4.82	102.75	
10:38:00	13.00	4.80	80.64	
10:38:10	12.99	4.59	68.75	
10:38:20	12.97	4.53	84.64	
10:38:30	12.98	4.58	117.30	
10:38:40	12.94	4.73	84.84	
10:38:50	12.96	4.79	52.23	
10:39:00	12.93	4.59	85.37	
10:39:10	12.92	4.60	128.71	
		4.69	97.00	Tap 4 - 4
10:39:20	12.91	5.20	97.25	
10:39:30	12.89	9.97	49.35	
10:39:40	12.86	6.90	26.11	
10:39:50	12.69	5.16	13.75	
10:40:00	12.55	4.56	7.49	
10:40:10	12.47	4.44	3.94	
10:40:20	12.46	4.38	2.41	
10:40:30	12.49	4.40	1.60	
10:40:40	12.52	4.56	1.31	
10:40:50	12.55	4.67	0.85	
10:41:00	12.61	4.47	1.58	
10:41:10	12.64	4.23	1.80	
10:41:20	12.69	4.25	1.99	
10:41:30	12.73	4.25	1.83	
10:41:40	12.77	4.15	1.99	
10:41:50	12.83	4.35	2.99	
		4.38	2.0	Tap 5 - 1
10:42:00	12.85	5.56	2.40	
10:42:10	12.86	7.88	4.87	
10:42:20	12.84	5.63	8.55	
10:42:30	12.74	4.86	10.13	
10:42:40	12.69	4.61	10.69	
10:42:50	12.67	4.56	20.09	
10:43:00	12.67	4.43	15.83	
10:43:10	12.69	4.48	11.58	
10:43:20	12.72	4.35	21.90	
10:43:30	12.72	4.30	17.85	
10:43:40	12.78	4.55	11.83	
		4.47	15.68	Tap 5 - 2
10:43:50	12.76	8.76	14.85	
10:44:00	12.73	6.52	82.21	
10:44:10	12.63	4.72	255.61	
10:44:20	12.54	4.20	255.97	
10:44:30	12.50	3.97	220.82	
10:44:40	12.53	3.81	275.28	
10:44:50	12.59	3.88	215.00	
10:45:00	12.63	3.86	187.43	
10:45:10	12.72	3.86	164.65	
10:45:20	12.78	3.76	177.94	

10:45:30	12.85	3.89	131.37	
10:45:40	12.93	3.77	122.57	
		[illegible]	[illegible]	Tap 5 - 3
10:45:50	12.97	5.08	188.32	
10:46:00	13.02	7.74	116.52	
10:46:10	12.99	5.59	72.58	
10:46:20	12.94	4.95	47.22	
10:46:30	12.83	4.59	71.33	
10:46:40	12.80	4.43	65.42	
10:46:50	12.81	4.18	54.89	
10:47:00	12.83	4.11	66.99	
10:47:10	12.88	4.03	65.08	
10:47:20	12.91	4.04	53.34	
10:47:30	12.83	4.13	66.13	
10:47:40	12.89	4.20	71.45	
10:47:50	12.93	4.26	54.67	
10:48:00	12.93	4.15	49.52	
10:48:10	13.00	4.08	33.48	
		4.13	137.28	Tap 5 - 4
10:48:20	12.98	9.37	20.49	
10:48:30	12.96	7.96	10.40	
10:48:40	12.85	5.80	5.21	
10:48:50	12.69	4.94	2.52	
10:49:00	12.59	4.51	1.11	
10:49:10	12.53	4.54	0.83	
10:49:20	12.54	4.58	2.58	
10:49:30	12.56	4.53	2.04	
10:49:40	12.60	4.51	1.04	
10:49:50	12.62	4.60	0.53	
10:50:00	12.65	4.63	0.02	
10:50:10	12.70	4.53	0.13	
		4.55	1.04	Tap 6 - 1
10:50:20	12.69	6.97	-0.01	
10:50:30	12.70	6.93	-0.54	
10:50:40	12.65	5.51	-0.70	
10:50:50	12.58	4.97	-0.35	
10:51:00	12.53	4.74	-0.47	
10:51:10	12.51	4.69	-0.44	
10:51:20	12.52	4.60	-0.31	
10:51:30	12.54	4.56	-0.45	
10:51:40	12.58	4.55	-0.68	
10:51:50	12.60	4.71	-0.48	
10:52:00	12.66	4.38	-0.17	
10:52:10	12.68	4.62	-0.52	
10:52:20	12.70	4.67	-0.82	
10:52:30	12.75	4.62	-0.78	
		4.62	-0.51	Tap 6 - 2
10:52:40	12.73	8.30	-0.70	
10:52:50	12.74	6.41	-0.78	
10:53:00	12.64	5.25	0.51	
10:53:10	12.56	4.91	0.66	
10:53:20	12.52	4.60	1.15	

10:53:30	12.51	4.39	1.02	
10:53:40	12.53	4.69	0.20	
10:53:50	12.57	4.65	-0.23	
10:54:00	12.60	4.63	0.51	
10:54:10	12.64	4.72	1.37	
10:54:20	12.68	4.92	0.55	
10:54:30	12.67	5.01	-0.36	
10:54:40	12.69	4.84	-0.34	
10:54:50	12.69	4.87	-0.04	
10:55:00	12.71	4.74	-0.33	
		4.73	0.32	Tap 6 - 3
10:55:10	12.67	8.58	-0.62	
10:55:20	12.65	6.89	0.04	
10:55:30	12.56	5.50	0.68	
10:55:40	12.46	4.93	1.30	
10:55:50	12.40	4.97	2.29	
10:56:00	12.39	4.89	3.00	
10:56:10	12.40	4.77	7.08	
10:56:20	12.43	4.82	6.66	
10:56:30	12.45	4.90	4.97	
10:56:40	12.48	5.05	3.04	
10:56:50	12.47	5.03	3.23	
10:57:00	12.51	4.87	1.77	
		4.91	3.70	Tap 6 - 4
10:57:10	12.46	9.90	0.37	
10:57:20	12.45	7.51	1.60	
10:57:30	12.32	5.96	1.63	
10:57:40	12.18	5.18	0.72	
10:57:50	12.11	4.72	0.91	
10:58:00	12.11	4.37	0.74	
10:58:10	12.15	4.50	1.24	
10:58:20	12.21	4.52	3.24	
10:58:30	12.28	4.46	3.06	
10:58:40	12.39	4.62	2.14	
10:58:50	12.47	4.60	2.72	
10:59:00	12.51	4.65	3.12	
10:59:10	12.55	4.64	2.75	
10:59:20	12.61	4.54	1.65	
		4.56	2.16	Tap 7 - 1
10:59:30	12.62	6.77	1.17	
10:59:40	12.65	7.47	1.45	
10:59:50	12.58	5.32	2.72	
11:00:00	12.48	4.62	2.24	
11:00:10	12.45	4.48	1.33	
11:00:20	12.47	4.73	1.41	
11:00:30	12.51	4.77	8.76	
11:00:40	12.54	4.55	11.90	
11:00:50	12.55	4.06	9.52	
11:01:00	12.61	3.99	6.70	
11:01:10	12.67	3.87	4.63	
11:01:20	12.78	3.84	13.48	
		4.29	7.29	Tap 7 - 2

11:01:30	12.83	5.23	23.07	
11:01:40	12.88	6.55	22.51	
11:01:50	12.87	5.46	13.51	
11:02:00	12.81	5.10	6.89	
11:02:10	12.77	4.75	5.33	
11:02:20	12.75	4.63	2.33	
11:02:30	12.77	4.50	1.02	
11:02:40	12.78	4.37	0.48	
11:02:50	12.83	4.28	0.58	
11:03:00	12.86	4.41	23.46	
11:03:10	12.90	4.59	23.77	
11:03:20	12.92	4.54	12.16	
11:03:30	12.95	4.43	7.97	
11:03:40	12.97	3.84	36.60	
11:03:50	13.00	3.77	28.93	
11:04:00	13.03	3.80	21.51	
11:04:10	13.11	3.79	17.70	
		4.18	[illegible]	Tap 7 - 3
11:04:20	13.12	8.36	13.71	
11:04:30	13.14	6.14	24.31	
11:04:40	13.03	5.03	45.28	
11:04:50	12.92	4.70	56.87	
11:05:00	12.89	4.57	43.52	
11:05:10	12.88	4.61	42.70	
11:05:20	12.90	4.68	24.82	
11:05:30	12.90	4.95	13.29	
11:05:40	12.89	5.24	13.19	
11:05:50	12.89	5.24	14.86	
11:06:00	12.88	5.18	13.92	
11:06:10	12.84	5.07	14.29	
11:06:20	12.81	4.66	9.68	
11:06:30	12.81	4.49	8.80	
11:06:40	12.82	4.52	11.07	
11:06:50	12.80	4.80	7.00	
11:07:00	12.83	4.52	6.56	
11:07:10	12.83	4.53	6.76	
11:07:20	12.83	4.56	6.34	
11:07:30	12.83	4.58	6.83	
11:07:40	12.84	4.58	6.94	
11:07:50	12.87	4.52	7.13	
11:08:00	13.01	4.53	6.71	
11:08:10	13.11	4.54	6.75	
		[illegible]	[illegible]	Tap 7 - 4

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	
Group:				
Tag:	WestCO2	WestO2	WestCO	
Sensor Name	CO2_102	O2_102	CO_102	
9:57:30	13.12	3.05	435.84	Test 23
9:57:40	13.23	3.14	388.83	
9:57:50	13.37	3.23	322.94	
9:58:00	13.49	3.41	235.38	
9:58:10	13.62	3.51	262.42	
9:58:20	13.73	3.36	265.19	
9:58:30	13.80	3.35	250.70	
9:58:40	13.89	3.45	420.76	
9:58:50	13.93	3.61	524.39	
9:59:00	14.01	3.95	435.67	
9:59:10	14.07	3.64	320.09	
9:59:20	14.09	3.86	397.77	
9:59:30	14.12	4.24	301.94	
9:59:40	14.13	4.24	230.84	
9:59:50	14.15	3.68	259.11	
10:00:00	14.15	3.38	221.99	
10:00:10	14.19	3.42	203.26	
10:00:20	14.21	3.40	166.69	
10:00:30	14.23	3.86	121.18	
10:00:40	14.24	4.06	212.53	
10:00:50	14.27	4.47	278.53	
10:01:00	14.26	4.17	245.30	
10:01:10	14.25	4.14	198.77	
10:01:20	14.23	4.45	262.73	
10:01:30	14.22	4.18	311.93	
10:01:40	14.19	3.90	395.07	
10:01:50	14.19	3.78	338.11	
		[illegible]	[illegible]	Tap 8 - 1
10:02:00	14.12	7.82	219.99	
10:02:10	14.13	6.41	177.27	
10:02:20	14.07	5.00	133.37	
10:02:30	13.98	4.42	72.29	
10:02:40	13.95	4.40	41.71	
10:02:50	13.89	4.24	32.95	
10:03:00	13.85	4.15	42.78	
10:03:10	13.85	4.43	38.37	
10:03:20	13.84	4.46	46.23	
10:03:30	13.83	4.38	51.60	
10:03:40	13.80	4.14	127.64	
10:03:50	13.79	4.34	149.86	
10:04:00	13.77	4.52	102.99	
10:04:10	13.82	4.63	57.64	
10:04:20	13.84	4.50	56.14	
10:04:30	13.82	4.72	51.74	
		[illegible]	[illegible]	Tap 8 - 2
10:04:40	13.83	5.44	34.35	

10:04:50	13.80	7.09	59.40	
10:05:00	13.72	4.88	100.75	
10:05:10	13.68	3.95	152.92	
10:05:20	13.63	3.75	220.01	
10:05:30	13.63	3.59	278.04	
10:05:40	13.62	3.66	382.28	
10:05:50	13.65	3.77	294.67	
10:06:00	13.66	3.16	651.50	
10:06:10	13.73	3.11	795.37	
10:06:20	13.72	3.29	653.38	
10:06:30	13.86	3.60	439.41	
10:06:40	13.92	3.84	274.70	
10:06:50	13.98	4.07	171.58	
10:07:00	13.99	4.03	105.77	
10:07:10	14.00	4.74	198.19	
		[illegible]	[illegible]	Tap 8 - 3
10:07:20	14.04	6.77	281.72	
10:07:30	14.02	4.67	570.12	
10:07:40	13.97	3.81	566.65	
10:07:50	13.92	3.82	419.39	
10:08:00	13.90	3.93	280.41	
10:08:10	13.90	4.04	299.54	
10:08:20	13.89	4.11	228.79	
10:08:30	13.91	4.16	198.93	
10:08:40	13.95	3.99	279.03	
10:08:50	13.95	3.73	381.11	
10:09:00	13.96	3.69	529.38	
10:09:10	13.98	4.00	389.49	
10:09:20	13.99	4.02	371.41	
10:09:30	13.99	4.07	373.69	
10:09:40	13.99	4.06	374.96	
10:09:50	14.06	3.98	454.44	
10:10:00	14.05	4.01	455.39	
10:10:10	14.08	3.99	455.85	
10:10:20	14.07	3.99	456.30	
10:10:30	14.06	4.01	456.67	
10:10:40	14.06	4.02	456.81	
10:10:50	14.06	4.03	457.89	
10:11:00	14.05	4.04	458.85	
10:11:10	14.06	4.05	459.07	
10:11:20	14.07	4.07	460.08	
10:11:30	14.05	4.08	459.45	
10:11:40	14.04	4.10	460.45	
10:11:50	14.06	4.11	461.46	
10:12:00	14.04	4.12	461.75	
10:12:10	14.04	4.14	462.96	Top 8-4
10:12:20	13.95	3.99	664.56	
		[illegible]	[illegible]	Tap 9 - 1
10:12:30	13.93	10.09	418.64	
10:12:40	13.91	10.12	567.13	
10:12:50	13.81	6.07	1228.26	
10:13:00	13.63	4.11	1228.53	

10:13:10	13.47	2.90	1228.58	
10:13:20	13.40	2.19	1228.59	
10:13:30	13.40	1.82	1228.62	
10:13:40	13.44	2.27	1228.62	
10:13:50	13.47	2.52	1087.29	
10:14:00	13.60	2.43	1039.81	
10:14:10	13.74	2.36	1228.46	
10:14:20	13.86	2.35	1228.62	
10:14:30	13.96	2.67	1028.55	
10:14:40	14.04	2.43	892.59	
10:14:50	14.20	2.29	1228.09	
10:15:00	14.27	2.12	1228.62	
		2.31	1149.81	Tap 9 - 2
10:15:10	14.33	5.90	1228.62	
10:15:20	14.38	10.12	1228.62	
10:15:30	14.37	5.89	1228.64	
10:15:40	14.23	3.23	1228.63	
10:15:50	14.12	2.70	1228.63	
10:16:00	14.04	2.63	1228.63	
10:16:10	14.01	2.71	1228.64	
10:16:20	14.03	2.68	1228.62	
10:16:30	14.09	2.25	1228.65	
10:16:40	14.15	2.16	1228.63	
10:16:50	14.21	2.42	1228.66	
10:17:00	14.30	2.33	1228.63	
10:17:10	14.36	2.29	1228.63	
10:17:20	14.41	2.41	1228.64	
		2.46	1228.64	Tap 9 - 3
10:17:30	14.51	1.92	1228.63	
10:17:40	14.53	5.36	1228.66	
10:17:50	14.57	4.21	1228.65	
10:18:00	14.55	3.36	1228.66	
10:18:10	14.52	2.75	1228.62	
10:18:20	14.50	2.50	1228.67	
10:18:30	14.51	2.85	1228.61	
10:18:40	14.51	2.80	1228.66	
10:18:50	14.56	2.70	1228.65	
10:19:00	14.59	2.22	1228.63	
10:19:10	14.62	1.90	1228.66	
10:19:20	14.68	1.66	1228.64	
10:19:30	14.73	1.67	1228.64	
10:19:40	14.79	2.19	1228.64	
10:19:50	14.85	2.50	1228.65	
10:20:00	14.86	2.51	1228.63	
10:20:10	14.92	2.21	1228.63	
		2.34	1228.64	Tap 9 - 4
10:20:20	14.92	6.28	1228.67	
10:20:30	14.94	4.74	1228.65	
10:20:40	14.87	3.69	1228.66	
10:20:50	14.78	3.10	1228.64	
10:21:00	14.75	2.54	1228.68	
10:21:10	14.71	2.37	1228.63	

10:21:20	14.71	2.40	1228.66	
10:21:30	14.72	2.66	1228.63	
10:21:40	14.76	2.92	1183.23	
10:21:50	14.77	2.74	1228.58	
10:22:00	14.79	2.60	1228.63	
10:22:10	14.78	2.69	1024.90	
10:22:20	14.80	2.57	943.74	
10:22:30	14.78	2.23	752.67	
10:22:40	14.84	2.26	542.11	
		[illegible]	[illegible]	Tap 10 - 1
10:22:50	14.86	6.65	452.84	
10:23:00	14.83	4.38	654.20	
10:23:10	14.84	2.79	862.55	
10:23:20	14.76	2.32	1123.53	
10:23:30	14.78	2.11	1228.55	
10:23:40	14.80	2.36	1228.61	
10:23:50	14.82	1.67	1228.61	
10:24:00	14.86	1.31	1228.66	
10:24:10	14.92	1.39	1228.62	
10:24:20	14.94	1.58	1228.65	
10:24:30	15.02	1.50	1228.64	
10:24:40	15.06	1.31	1228.64	
10:24:50	15.12	1.13	1228.65	
10:25:00	15.18	1.25	1228.64	
10:25:10	15.23	1.73	1228.66	
10:25:20	15.28	1.95	1228.64	
10:25:30	15.27	2.44	1228.65	
		[illegible]	[illegible]	Tap 10 - 2
10:25:40	15.35	2.79	1228.66	
10:25:50	15.31	7.24	1133.72	
10:26:00	15.31	4.73	1176.13	
10:26:10	15.21	2.66	1228.64	
10:26:20	15.12	1.73	1228.66	
10:26:30	15.03	1.50	1228.66	
10:26:40	15.02	1.01	1228.68	
10:26:50	15.04	1.19	1228.67	
10:27:00	15.06	1.53	1228.66	
10:27:10	15.10	1.73	1228.66	
10:27:20	15.14	1.66	1228.65	
10:27:30	15.18	1.56	1228.66	
10:27:40	15.23	1.55	1228.66	
10:27:50	15.21	1.50	1228.68	
10:28:00	15.29	1.62	1228.65	
		[illegible]	[illegible]	Tap 10 - 3
10:28:10	15.30	5.89	1228.66	
10:28:20	15.31	4.05	1228.66	
10:28:30	15.25	3.17	1228.65	
10:28:40	15.17	2.78	1193.73	
10:28:50	15.10	2.44	1228.63	
10:29:00	15.07	2.42	1228.66	
10:29:10	15.08	2.10	1228.66	
10:29:20	15.08	2.03	1228.67	

10:29:30	15.10	2.22	1228.65	
10:29:40	15.10	2.22	1228.66	
10:29:50	15.13	2.49	1228.67	
10:30:00	15.14	2.60	1228.68	
10:30:10	15.15	2.74	1228.70	
10:30:20	15.16	2.94	1193.30	
10:30:30	15.11	2.66	1181.32	
10:30:40	15.14	2.80	1170.12	
		2.49	1215.11	Tap 10 - 4
10:30:50	15.01	8.30	707.40	
10:31:00	15.01	5.18	834.38	
10:31:10	14.93	3.12	1228.50	
10:31:20	14.80	2.68	1200.75	
10:31:30	14.72	2.65	870.48	
10:31:40	14.66	2.69	706.54	
10:31:50	14.73	2.79	1226.31	
10:32:00	14.73	3.01	1228.61	
10:32:10	14.75	2.99	1228.62	
10:32:20	14.76	2.92	1228.65	
10:32:30	14.76	2.85	1228.66	
10:32:40	14.76	2.86	1228.65	
10:32:50	14.75	2.82	1056.75	
10:33:00	14.71	3.13	667.31	
10:33:10	14.75	3.45	502.00	
10:33:20	14.78	2.93	610.86	
10:33:30	14.83	2.45	1205.39	
10:33:40	14.82	2.72	1228.58	
		2.86	1027.18	Tap 11 - 1
10:33:50	14.84	5.55	1211.09	
10:34:00	14.82	3.57	1228.64	
10:34:10	14.78	2.61	1228.64	
10:34:20	14.76	2.25	1228.68	
10:34:30	14.75	2.07	1228.63	
10:34:40	14.77	1.89	1228.66	
10:34:50	14.82	2.11	1228.66	
10:35:00	14.87	2.00	1228.67	
10:35:10	14.90	1.61	1228.64	
10:35:20	14.97	1.78	1228.66	
10:35:30	14.99	1.71	1228.67	
		1.93	1228.66	Tap 11 - 2
10:35:40	15.07	3.31	1228.66	
10:35:50	15.09	8.03	1228.66	
10:36:00	15.08	4.56	1228.65	
10:36:10	14.96	2.94	1228.68	
10:36:20	14.89	2.06	1228.65	
10:36:30	14.82	1.54	1228.66	
10:36:40	14.83	1.84	1228.67	
10:36:50	14.85	2.23	1228.66	
10:37:00	14.87	2.32	1228.66	
10:37:10	14.92	2.38	1166.37	
10:37:20	14.94	2.33	1228.67	
		2.10	1219.78	Tap 11 - 3

10:37:30	14.90	6.60	980.52	
10:37:40	14.91	6.74	710.32	
10:37:50	14.82	4.75	623.65	
10:38:00	14.75	3.75	491.42	
10:38:10	14.67	3.54	341.31	
10:38:20	14.62	3.15	606.64	
10:38:30	14.62	2.56	1206.80	
10:38:40	14.58	2.24	1228.53	
10:38:50	14.59	2.16	1228.63	
10:39:00	14.62	2.19	1228.61	
10:39:10	14.65	2.00	1228.63	
10:39:20	14.71	2.18	1228.64	
10:39:30	14.70	2.39	1228.64	
		[illegible]	[illegible]	Tap 11 - 4
10:39:40	14.69	3.41	1228.66	
10:39:50	14.65	11.17	743.26	
10:40:00	14.58	14.39	433.90	
10:40:10	14.43	12.69	356.94	
10:40:20	14.19	7.29	882.11	
10:40:30	13.90	4.12	1228.50	
10:40:40	13.62	2.81	1228.57	
10:40:50	13.45	2.13	1228.59	
10:41:00	13.36	2.16	1228.63	
10:41:10	13.34	2.53	1228.65	
10:41:20	13.39	2.57	1228.64	
10:41:30	13.46	2.47	1228.65	
10:41:40	13.55	2.31	1228.65	
10:41:50	13.65	2.23	1228.65	
10:42:00	13.75	2.30	1228.64	
10:42:10	13.84	2.30	1007.50	
10:42:20	13.94	2.21	988.81	
		[illegible]	[illegible]	Tap 12 - 1
10:42:30	14.01	6.79	935.68	
10:42:40	14.11	7.23	829.20	
10:42:50	14.18	4.64	1184.97	
10:43:00	14.10	3.29	1228.63	
10:43:10	14.04	2.93	1228.64	
10:43:20	14.03	2.89	1228.65	
10:43:30	14.03	2.97	1228.65	
10:43:40	14.07	2.83	1228.63	
10:43:50	14.11	2.88	1228.66	
10:44:00	14.14	2.75	1228.65	
10:44:10	14.18	2.86	1083.77	
		[illegible]	[illegible]	Tap 12 - 2
10:44:20	14.19	7.35	726.49	
10:44:30	14.24	5.12	894.87	
10:44:40	14.28	3.36	1227.62	
10:44:50	14.23	3.02	1228.61	
10:45:00	14.21	2.91	1228.64	
10:45:10	14.20	2.67	1228.64	
10:45:20	14.22	2.46	1228.66	
10:45:30	14.25	2.43	1228.65	

10:45:40	14.29	3.16	1228.66	
10:45:50	14.35	3.30	1124.07	
10:46:00	14.40	2.43	1228.63	
10:46:10	14.46	1.81	1228.65	
		[illegible]	[illegible]	Tap 12 - 3
10:46:20	14.46	4.00	1228.68	
10:46:30	14.52	4.70	1228.66	
10:46:40	14.55	3.50	1228.65	
10:46:50	14.52	2.67	1228.67	
10:47:00	14.51	2.71	1228.65	
10:47:10	14.49	3.16	1228.66	
10:47:20	14.50	3.27	1228.65	
10:47:30	14.47	3.31	1228.64	
10:47:40	14.47	3.43	1113.82	
10:47:50	14.47	3.43	1100.06	
10:48:00	14.51	3.20	1228.62	
10:48:10	14.51	3.13	1228.66	
10:48:20	14.52	3.25	1228.66	
10:48:30	14.52	2.98	1228.65	
10:48:40	14.56	2.87	1228.67	
		[illegible]	[illegible]	Tap 12 - 4
10:48:50	14.52	3.61	1228.64	
10:49:00	14.50	6.61	1228.66	
10:49:10	14.50	4.37	1196.48	
10:49:20	14.43	3.45	1216.29	
10:49:30	14.37	3.19	1199.59	
10:49:40	14.33	3.13	1228.65	
10:49:50	14.34	3.14	1200.86	
10:50:00	14.33	2.88	1228.66	
10:50:10	14.34	3.23	1228.65	
10:50:20	14.33	3.42	1104.30	
10:50:30	14.30	3.52	877.37	
10:50:40	14.29	3.61	653.54	
		[illegible]	[illegible]	Tap 13 - 1
10:50:50	14.35	6.58	441.07	
10:51:00	14.35	5.36	374.59	
10:51:10	14.32	4.45	245.12	
10:51:20	14.26	3.65	284.33	
10:51:30	14.21	2.90	284.35	
10:51:40	14.19	2.66	501.35	
10:51:50	14.18	3.39	394.19	
10:52:00	14.22	3.40	302.13	
10:52:10	14.26	2.65	505.83	
10:52:20	14.29	2.19	517.85	
10:52:30	14.37	1.91	568.54	
10:52:40	14.42	1.97	544.80	
10:52:50	14.53	1.52	1228.33	
10:53:00	14.61	1.89	1228.54	
10:53:10	14.70	2.57	1217.93	
10:53:20	14.70	2.68	840.22	
10:53:30	14.75	2.92	619.76	
		[illegible]	[illegible]	Tap 13 - 2

10:53:40	14.83	6.07	610.44	
10:53:50	14.89	3.99	1170.57	
10:54:00	14.85	2.53	1228.56	
10:54:10	14.83	1.93	1228.57	
10:54:20	14.82	1.41	1228.63	
10:54:30	14.84	1.31	1228.61	
10:54:40	14.88	1.29	1228.64	
10:54:50	14.94	1.38	1228.62	
10:55:00	15.01	1.39	1228.64	
10:55:10	15.11	1.46	1228.65	
10:55:20	15.17	1.65	1228.63	
10:55:30	15.25	1.49	1228.65	
		[illegible]	[illegible]	Tap 13 - 3
10:55:40	15.26	4.36	1228.66	
10:55:50	15.30	4.27	1228.66	
10:56:00	15.29	2.61	1228.64	
10:56:10	15.25	1.88	1228.66	
10:56:20	15.22	1.41	1228.63	
10:56:30	15.21	1.14	1228.65	
10:56:40	15.23	1.13	1228.66	
10:56:50	15.26	1.32	1228.62	
10:57:00	15.31	1.21	1228.67	
10:57:10	15.33	1.02	1228.63	
10:57:20	15.40	1.04	1228.66	
10:57:30	15.44	1.06	1228.65	
10:57:40	15.47	1.68	1228.65	
		[illegible]	[illegible]	Tap 13 - 4
10:57:50	15.49	4.66	1228.66	
10:58:00	15.50	3.70	1228.64	
10:58:10	15.49	3.12	1228.66	
10:58:20	15.43	2.72	1190.66	
10:58:30	15.32	2.44	1047.14	
10:58:40	15.29	2.77	973.53	
10:58:50	15.26	2.92	1116.46	
10:59:00	15.27	2.69	1228.59	
10:59:10	15.24	2.59	1228.63	
10:59:20	15.24	2.78	1228.63	
10:59:30	15.22	2.85	1228.64	
10:59:40	15.13	2.94	1228.65	
10:59:50	15.15	3.08	1228.62	
		[illegible]	[illegible]	Tap 14 - 1
11:00:00	15.04	7.92	1073.23	
11:00:10	15.01	6.79	769.14	
11:00:20	14.92	4.28	1085.29	
11:00:30	14.81	3.36	1228.58	
11:00:40	14.70	3.19	1124.30	
11:00:50	14.57	3.54	816.38	
11:01:00	14.50	3.70	602.48	
11:01:10	14.48	3.64	498.49	
11:01:20	14.47	3.81	471.84	
11:01:30	14.47	3.51	469.33	
11:01:40	14.40	3.09	473.45	

		[illegible]	[illegible]	Tap 14 - 2
11:01:50	14.38	2.65	674.13	
11:02:00	14.38	5.71	858.73	
11:02:10	14.41	5.34	777.19	
11:02:20	14.39	3.58	764.97	
11:02:30	14.35	3.03	935.22	
11:02:40	14.34	2.96	1228.50	
11:02:50	14.36	2.78	1228.57	
11:03:00	14.38	2.33	1228.61	
11:03:10	14.39	2.09	1228.61	
11:03:20	14.43	2.20	1228.62	
11:03:30	14.49	2.60	1228.64	
11:03:40	14.55	2.77	1228.63	
11:03:50	14.58	2.69	1228.65	
11:04:00	14.63	2.58	1228.61	
11:04:10	14.68	2.74	1228.65	
11:04:20	14.70	2.87	1228.65	
11:04:30	14.72	2.61	1228.65	
		[illegible]	[illegible]	Tap 14 - 3
11:04:40	14.73	3.13	1228.64	
11:04:50	14.76	5.49	1228.63	
11:05:00	14.80	3.91	1228.65	
11:05:10	14.83	2.85	1228.63	
11:05:20	14.78	2.11	1228.65	
11:05:30	14.75	1.82	1228.65	
11:05:40	14.74	1.56	1228.63	
11:05:50	14.74	1.22	1228.62	
11:06:00	14.76	1.09	1228.63	
11:06:10	14.80	1.17	1228.66	
11:06:20	14.87	1.24	1228.65	
11:06:30	14.94	1.17	1228.67	
11:06:40	15.01	1.07	1228.63	
11:06:50	15.05	0.98	1228.65	
11:07:00	15.11	1.07	1228.63	
11:07:10	15.19	1.19	1228.64	
11:07:20	15.24	1.43	1228.66	
11:07:30	15.26	1.78	1228.64	
11:07:40	15.32	2.01	1228.66	
11:07:50	15.35	1.58	1228.62	
11:08:00	15.38	1.48	1228.64	
11:08:10	15.44	1.53	1228.65	
		[illegible]	[illegible]	Tap 14 - 4

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
8:00:13	13.78	3.88	67.82	14.54	2.33	1228.41	Test 23
8:00:33	13.80	3.85	73.37	14.65	2.34	1228.46	
8:00:53	13.84	3.83	82.81	14.75	2.39	1228.47	
8:01:13	13.85	3.80	91.90	14.83	2.41	1228.46	
8:01:33	13.89	3.77	99.39	14.91	2.39	1228.44	
8:01:53	13.90	3.75	107.29	14.95	2.34	1228.44	
8:02:13	13.90	3.72	116.50	14.98	2.31	1228.43	
8:02:33	13.92	3.70	126.67	15.03	2.27	1228.43	
8:02:53	13.93	3.70	133.76	15.07	2.21	1228.43	
8:03:13	13.95	3.70	136.19	15.09	2.18	1228.44	
8:03:33	13.95	3.72	135.63	15.14	2.16	1228.46	
8:03:53	13.94	3.73	132.65	15.16	2.16	1228.45	
8:04:13	13.96	3.73	127.85	15.17	2.17	1228.46	
8:04:33	13.96	3.74	122.85	15.20	2.20	1228.44	
8:04:53	13.96	3.74	118.42	15.23	2.22	1228.44	
8:05:13	13.95	3.73	116.11	15.23	2.24	1228.44	
8:05:33	13.96	3.72	117.10	15.23	2.24	1228.44	
8:05:53	13.94	3.71	116.89	15.25	2.22	1228.45	
8:06:13	13.95	3.70	117.50	15.27	2.21	1228.45	
8:06:33	13.94	3.67	120.70	15.27	2.23	1228.46	
8:06:53	13.95	3.65	123.70	15.28	2.27	1228.46	
8:07:13	13.94	3.65	126.64	15.29	2.34	1228.43	
8:07:33	13.95	3.63	129.59	15.29	2.38	1228.44	
8:07:53	13.95	3.62	132.30	15.30	2.38	1228.45	
8:08:13	13.95	3.60	138.51	15.30	2.41	1228.46	
8:08:33	13.96	3.59	147.45	15.29	2.44	1228.42	
8:08:53	13.99	3.56	158.27	15.30	2.44	1228.46	
8:09:13	13.97	3.56	164.14	15.25	2.43	1228.44	
8:09:33	13.98	3.55	172.91	15.26	2.42	1228.46	
8:09:53	13.98	3.54	181.06	15.22	2.37	1228.46	
8:10:13	12.87	3.54	180.07	15.24	2.29	1228.45	
8:10:33	13.53	3.53	193.50	15.24	2.26	1228.46	
8:10:53	13.65	3.52	200.38	15.24	2.28	1228.42	
8:11:13	13.62	3.53	200.92	15.24	2.30	1228.42	
8:11:33	13.66	3.56	196.85	15.23	2.31	1228.44	
8:11:53	13.67	3.57	193.06	15.23	2.32	1228.48	
8:12:13	13.69	3.59	189.67	15.23	2.36	1228.49	
8:12:33	13.65	3.60	187.34	15.22	2.41	1228.46	
8:12:53	13.64	3.61	184.08	15.21	2.45	1228.48	
8:13:13	13.63	3.61	184.13	15.20	2.39	1228.45	
8:13:33	13.62	3.62	186.54	15.21	2.32	1228.45	
8:13:53	13.63	3.61	194.89	15.22	2.29	1228.47	
8:14:13	13.62	3.61	202.35	15.19	2.29	1228.46	
8:14:33	13.58	3.60	208.90	15.20	2.28	1228.46	
8:14:53	13.62	3.61	208.49	15.22	2.30	1228.46	
8:15:13	13.68	3.62	201.34	15.22	2.35	1228.46	
8:15:33	13.68	3.62	191.46	15.23	2.38	1228.45	
8:15:53	13.66	3.63	180.66	15.22	2.37	1228.45	
8:16:13	13.67	3.62	171.63	15.22	2.38	1228.45	
8:16:33	13.67	3.62	164.93	15.21	2.45	1228.45	
8:16:53	13.67	3.62	160.78	15.18	2.46	1228.46	
8:17:13	13.66	3.61	159.47	15.19	2.44	1228.48	
8:17:33	12.03	3.59	145.71	15.18	2.39	1228.45	
8:17:53	8.14	3.59	117.25	15.18	2.33	1228.48	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
8:18:13	7.74	3.60	116.39	15.18	2.29	1228.47
8:18:33	7.61	3.61	117.81	15.19	2.34	1228.46
8:18:53	7.57	3.62	116.18	15.19	2.38	1228.46
8:19:13	7.58	3.63	116.31	15.21	2.40	1228.46
8:19:33	7.54	3.65	111.78	15.19	2.41	1228.46
8:19:53	7.52	3.66	106.76	15.21	2.43	1228.45
8:20:13	7.49	3.66	103.59	15.18	2.45	1228.47
8:20:33	7.47	3.66	99.94	15.19	2.45	1228.46
8:20:53	7.45	3.65	97.47	15.19	2.41	1228.46
8:21:13	7.43	3.63	95.06	15.21	2.37	1228.45
8:21:33	7.42	3.64	88.64	15.23	2.35	1228.48
8:21:53	7.40	3.63	84.16	15.23	2.36	1228.46
8:22:13	7.42	3.62	80.34	15.27	2.38	1213.54
8:22:33	7.40	3.62	76.37	15.26	2.40	1177.38
8:22:53	7.22	3.63	71.99	15.25	2.43	1193.26
8:23:13	8.35	3.63	79.87	15.25	2.45	1228.48
8:23:33	8.62	3.62	81.87	15.24	2.42	1228.47
8:23:53	8.84	3.65	79.58	15.24	2.38	1228.48
8:24:13	10.49	3.66	92.69	15.24	2.36	1228.46
8:24:33	11.70	3.68	96.58	15.25	2.31	1228.48
8:24:53	11.84	3.70	92.71	15.26	2.28	1228.46
8:25:13	11.53	3.71	85.29	15.25	2.30	1228.48
8:25:33	10.74	3.72	73.37	15.23	2.37	1228.46
8:25:53	10.84	3.73	70.92	15.26	2.43	1228.46
8:26:13	11.07	3.73	69.25	15.23	2.40	1228.48
8:26:33	11.52	3.75	70.26	15.26	2.34	1228.48
8:26:53	11.48	3.77	66.89	15.23	2.33	1228.48
8:27:13	11.41	3.76	69.58	15.25	2.34	1228.47
8:27:33	10.78	3.77	68.71	15.24	2.35	1228.46
8:27:53	10.79	3.79	72.76	15.25	2.32	1228.46
8:28:13	11.10	3.79	79.84	15.26	2.29	1228.46
8:28:33	11.01	3.78	84.53	15.27	2.28	1228.49
8:28:53	10.90	3.75	91.20	15.29	2.26	1228.49
8:29:13	10.89	3.75	100.60	15.27	2.25	1228.49
8:29:33	11.06	3.72	115.78	15.29	2.24	1228.49
8:29:53	11.23	3.69	131.66	15.27	2.29	1228.47
8:30:13	11.26	3.67	146.68	15.30	2.37	1228.47
8:30:33	11.17	3.66	156.08	15.27	2.45	1228.46
8:30:53	11.19	3.65	161.04	15.25	2.51	1228.47
8:31:13	11.10	3.63	166.70	15.26	2.57	1158.56
8:31:33	10.86	3.61	167.88	15.21	2.60	1103.57
8:31:53	10.78	3.59	170.46	15.20	2.57	1228.46
8:32:13	10.85	3.58	171.27	15.21	2.50	1228.48
8:32:33	10.93	3.58	172.95	15.19	2.52	1228.48
8:32:53	10.97	3.57	181.98	15.19	2.59	1228.48
8:33:13	10.97	3.57	189.27	15.16	2.59	1221.04
8:33:33	11.07	3.56	193.68	15.17	2.55	1228.46
8:33:53	11.20	3.55	196.30	15.15	2.52	1228.50
8:34:13	11.19	3.55	196.08	15.15	2.49	1228.50
8:34:33	11.28	3.55	194.16	15.15	2.46	1217.50
8:34:53	11.28	3.54	194.86	15.16	2.45	1225.91
8:35:13	11.31	3.54	192.92	15.18	2.47	1228.48
8:35:33	11.32	3.55	188.75	15.19	2.45	1228.49
8:35:53	11.02	3.54	183.46	15.19	2.42	1228.48

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
8:36:13	10.92	3.53	182.71	15.20	2.42	1228.47
8:36:33	10.86	3.53	183.38	15.20	2.44	1228.50
8:36:53	10.75	3.52	187.82	15.20	2.44	1228.50
8:37:13	10.62	3.50	192.65	15.22	2.45	1228.50
8:37:33	11.00	3.49	201.22	15.23	2.44	1228.48
8:37:53	11.07	3.47	212.72	15.23	2.45	1228.49
8:38:13	11.23	3.47	224.51	15.22	2.42	1228.50
8:38:33	11.17	3.43	237.48	15.22	2.37	1228.50
8:38:53	11.35	3.43	240.09	15.24	2.33	1228.51
8:39:13	11.47	3.43	238.42	15.23	2.34	1228.51
8:39:33	11.53	3.45	228.37	15.25	2.41	1228.50
8:39:53	11.59	3.47	218.33	15.25	2.44	1228.51
8:40:13	11.56	3.50	202.19	15.23	2.42	1228.51
8:40:33	10.41	3.53	178.77	15.23	2.41	1228.53
8:40:53	10.26	3.55	166.09	15.24	2.47	1228.52
8:41:13	10.35	3.57	155.20	15.21	2.56	1228.50
8:41:33	10.39	3.60	143.01	15.19	2.61	1228.49
8:41:53	10.44	3.63	132.31	15.16	2.67	1228.52
8:42:13	9.58	3.64	116.85	15.16	2.69	1228.50
8:42:33	8.49	3.68	99.44	15.10	2.66	1228.53
8:42:53	8.42	3.71	96.06	15.09	2.62	1228.51
8:43:13	8.17	3.72	94.02	15.10	2.58	1228.53
8:43:33	8.02	3.73	92.64	15.08	2.54	1228.52
8:43:53	8.21	3.74	95.31	15.09	2.53	1228.50
8:44:13	8.47	3.76	97.43	15.09	2.56	1228.50
8:44:33	8.03	3.78	92.75	15.08	2.60	1228.52
8:44:53	7.89	3.78	89.16	15.09	2.58	1228.51
8:45:13	7.89	3.78	89.23	15.10	2.54	1228.53
8:45:33	7.84	3.79	86.26	15.10	2.57	1228.51
8:45:53	7.82	3.81	83.27	15.11	2.56	1228.53
8:46:13	9.33	3.81	92.89	15.13	2.57	1228.51
8:46:33	9.98	3.81	93.52	15.12	2.59	1228.51
8:46:53	10.13	3.80	92.11	15.13	2.61	1194.17
8:47:13	10.19	3.79	89.78	15.12	2.65	1218.74
8:47:33	9.76	3.80	81.50	15.12	2.66	1228.51
8:47:53	9.09	3.79	72.31	15.10	2.59	1228.54
8:48:13	8.64	3.80	67.20	15.10	2.48	1228.53
8:48:33	8.34	3.80	65.62	15.12	2.41	1228.52
8:48:53	8.37	3.79	67.79	15.13	2.48	1228.53
8:49:13	8.45	3.79	71.81	15.14	2.60	1228.52
8:49:33	8.48	3.81	72.74	15.13	2.61	1228.50
8:49:53	8.28	3.84	70.60	15.14	2.57	1228.50
8:50:13	8.17	3.85	67.60	15.12	2.53	1228.51
8:50:33	8.15	3.88	65.29	15.12	2.52	1228.55
8:50:53	8.17	3.91	59.75	15.15	2.57	1228.52
8:51:13	8.19	3.92	55.47	15.17	2.60	1228.53
8:51:33	8.01	3.92	49.70	15.18	2.58	1228.52
8:51:53	7.88	3.92	46.47	15.19	2.56	1228.52
8:52:13	7.83	3.92	44.56	15.18	2.65	1228.53
8:52:33	7.88	3.91	44.36	15.18	2.73	1228.51
8:52:53	7.85	3.90	44.68	15.15	2.77	1228.53
8:53:13	7.86	3.89	46.47	15.12	2.78	1228.50
8:53:33	7.82	3.89	48.56	15.12	2.78	1228.54
8:53:53	8.42	3.87	61.13	15.09	2.75	1228.52

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
8:54:13	8.88	3.88	67.80	15.06	2.74	1228.53
8:54:33	8.92	3.88	69.85	15.04	2.73	1228.52
8:54:53	8.89	3.88	70.59	15.03	2.73	1228.51
8:55:13	8.98	3.89	73.90	15.02	2.73	1228.53
8:55:33	9.08	3.90	75.54	15.01	2.74	1228.53
8:55:53	9.23	3.89	81.53	15.02	2.77	1137.17
8:56:13	9.49	3.91	83.94	14.96	2.80	1001.07
8:56:33	9.67	3.91	86.24	14.99	2.81	928.30
8:56:53	10.20	3.89	89.63	14.97	2.78	948.89
8:57:13	9.77	3.89	83.96	14.98	2.70	1126.46
8:57:33	9.77	3.88	83.21	15.01	2.66	1228.50
8:57:53	9.78	3.88	81.61	15.02	2.64	1228.52
8:58:13	9.65	3.87	80.48	15.02	2.66	1228.53
8:58:33	9.36	3.87	77.40	15.04	2.72	1228.52
8:58:53	9.32	3.86	77.46	15.04	2.71	1228.53
8:59:13	9.37	3.85	77.61	15.03	2.66	1228.55
8:59:33	9.28	3.84	75.79	15.06	2.65	1228.54
8:59:53	9.36	3.84	75.34	15.06	2.68	1228.52
9:00:13	9.38	3.84	73.51	15.06	2.73	1223.22
9:00:33	9.42	3.84	72.03	15.05	2.73	1228.55
9:00:53	9.45	3.83	72.38	15.07	2.71	1228.53
9:01:13	9.47	3.84	71.49	15.04	2.73	1228.55
9:01:33	9.41	3.84	71.40	15.06	2.74	1228.53
9:01:53	9.39	3.84	71.32	15.04	2.72	1228.55
9:02:13	9.41	3.85	71.04	15.04	2.70	1228.57
9:02:33	9.38	3.85	71.81	15.04	2.69	1228.55
9:02:53	9.42	3.85	74.10	15.04	2.66	1228.53
9:03:13	9.43	3.86	76.23	15.03	2.57	1228.54
9:03:33	9.46	3.86	77.68	15.06	2.49	1228.53
9:03:53	9.46	3.88	80.15	15.06	2.44	1228.53
9:04:13	9.46	3.89	83.20	15.07	2.41	1228.55
9:04:33	9.45	3.89	84.81	15.07	2.39	1228.55
9:04:53	9.52	3.91	84.04	15.10	2.37	1228.55
9:05:13	9.46	3.91	81.52	15.09	2.40	1228.57
9:05:33	9.58	3.93	79.63	15.12	2.50	1228.56
9:05:53	9.79	3.94	75.44	15.14	2.56	1228.54
9:06:13	9.95	3.94	73.13	15.13	2.56	1228.53
9:06:33	11.33	3.94	82.43	15.11	2.55	1228.53
9:06:53	12.49	3.95	91.39	15.11	2.54	1228.54
9:07:13	12.92	3.95	98.42	15.09	2.53	1228.56
9:07:33	13.27	3.96	105.49	15.10	2.51	1228.53
9:07:53	13.36	3.97	107.20	15.09	2.52	1228.55
9:08:13	13.37	3.98	106.96	15.09	2.54	1228.53
9:08:33	13.38	3.99	102.89	15.09	2.55	1228.53
9:08:53	13.37	3.98	99.09	15.12	2.54	1228.53
9:09:13	13.36	3.98	93.49	15.12	2.52	1228.54
9:09:33	13.36	3.98	87.12	15.09	2.50	1228.53
9:09:53	13.36	3.99	83.83	15.13	2.51	1228.55
9:10:13	13.37	3.99	82.01	15.13	2.56	1228.55
9:10:33	13.37	4.00	80.28	15.12	2.57	1228.55
9:10:53	13.35	4.00	79.42	15.12	2.59	1228.53
9:11:13	13.37	4.00	79.20	15.14	2.59	1228.53
9:11:33	13.38	4.00	78.73	15.15	2.58	1228.54
9:11:53	13.37	4.00	79.42	15.14	2.60	1228.51

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
9:12:13	13.37	4.00	81.30	15.13	2.64	1228.53
9:12:33	13.38	3.98	85.60	15.14	2.67	1228.51
9:12:53	13.40	3.95	91.68	15.11	2.70	1228.53
9:13:13	13.40	3.94	100.55	15.11	2.74	1228.56
9:13:33	13.40	3.92	109.23	15.08	2.77	1228.55
9:13:53	13.41	3.89	116.57	15.11	2.76	1228.54
9:14:13	13.41	3.87	120.80	15.07	2.76	1228.54
9:14:33	13.42	3.85	123.57	15.06	2.76	1160.61
9:14:53	13.43	3.84	125.66	15.03	2.77	1081.29
9:15:13	13.47	3.84	124.49	15.02	2.75	1024.83
9:15:33	13.47	3.82	123.40	15.00	2.73	1004.96
9:15:53	13.47	3.81	120.45	15.01	2.70	1056.23
9:16:13	13.50	3.81	116.88	15.02	2.69	1050.53
9:16:33	13.50	3.82	112.54	15.02	2.73	973.69
9:16:53	13.52	3.80	110.42	15.03	2.78	958.66
9:17:13	13.51	3.80	106.95	15.03	2.79	1074.77
9:17:33	13.54	3.80	103.60	15.05	2.79	1127.45
9:17:53	13.55	3.80	100.63	15.07	2.80	1147.34
9:18:13	13.53	3.79	98.92	15.08	2.79	1202.86
9:18:33	13.54	3.80	97.46	15.08	2.80	1188.76
9:18:53	13.54	3.79	96.90	15.02	2.82	1124.36
9:19:13	13.55	3.79	98.58	15.01	2.82	1080.99
9:19:33	13.57	3.78	101.23	15.02	2.81	1113.93
9:19:53	13.56	3.78	104.16	15.01	2.80	1118.38
9:20:13	13.57	3.77	109.02	15.00	2.77	1122.01
9:20:33	13.56	3.77	112.18	14.99	2.75	1098.40
9:20:53	13.56	3.74	118.16	15.01	2.75	1051.09
9:21:13	13.58	3.72	124.95	14.98	2.76	996.46
9:21:33	13.57	3.71	129.21	14.97	2.76	960.66
9:21:53	13.55	3.69	134.75	14.98	2.73	1077.19
9:22:13	13.59	3.68	138.53	15.03	2.69	1200.73
9:22:33	13.61	3.68	140.22	15.04	2.62	1228.51
9:22:53	13.63	3.67	141.95	15.06	2.59	1228.53
9:23:13	13.63	3.67	142.75	15.06	2.60	1228.53
9:23:33	13.62	3.67	142.25	15.07	2.64	1127.64
9:23:53	13.64	3.64	139.68	15.06	2.69	1000.97
9:24:13	13.64	3.63	136.24	15.04	2.74	905.34
9:24:33	13.66	3.62	132.90	15.04	2.77	834.73
9:24:53	13.69	3.61	130.59	15.05	2.76	817.85
9:25:13	13.68	3.60	128.22	15.05	2.77	811.87
9:25:33	13.68	3.60	127.20	15.05	2.76	924.16
9:25:53	13.60	3.60	124.93	15.06	2.71	1083.56
9:26:13	13.61	3.59	126.02	15.08	2.68	1217.30
9:26:33	13.60	3.61	125.15	15.10	2.66	1228.51
9:26:53	13.62	3.62	124.01	15.07	2.70	1228.51
9:27:13	13.64	3.66	120.16	15.09	2.86	1228.53
9:27:33	13.63	3.66	119.66	15.08	3.04	1228.52
9:27:53	13.68	3.68	117.30	15.04	3.02	1228.51
9:28:13	13.88	3.68	116.72	14.99	2.92	1228.53
9:28:33	13.89	3.71	117.10	15.01	2.87	1228.51
9:28:53	13.89	3.73	116.97	15.04	2.89	1228.51
9:29:13	13.88	3.76	116.54	15.03	2.91	1228.52
9:29:33	13.88	3.79	116.82	15.02	2.95	1228.53
9:29:53	13.86	3.85	116.99	15.01	3.03	1228.52

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
9:30:13	13.87	3.91	117.33	15.16	2.87	1228.53
9:30:33	13.88	3.97	117.23	14.83	3.30	1199.66
9:30:53	13.87	4.04	116.72	14.84	3.10	912.52
9:31:13	13.85	4.10	116.87	14.83	3.49	833.63
9:31:33	13.83	4.16	116.85	14.79	4.14	492.11
9:31:53	13.84	4.24	116.53	14.76	3.98	257.56
9:32:13	13.82	4.30	116.35	14.58	3.67	195.93
9:32:33	13.83	4.36	117.15	14.47	4.31	105.52
9:32:53	13.82	4.47	117.25	14.41	3.81	102.38
9:33:13	13.80	4.61	117.01	14.35	3.43	255.17
9:33:33	13.80	4.73	116.42	14.36	3.61	121.60
9:33:53	13.80	4.88	117.12	14.38	3.54	114.63
9:34:13	13.79	5.01	116.53	14.37	3.52	197.74
9:34:33	13.78	5.11	116.88	14.40	3.77	161.79
9:34:53	13.79	5.22	116.11	14.39	3.41	111.53
9:35:13	13.77	5.30	116.37	14.38	3.02	231.12
9:35:33	13.78	5.42	117.00	14.46	2.83	301.12
9:35:53	13.76	5.62	116.85	14.50	3.43	289.59
9:36:13	13.75	5.92	116.77	14.55	3.77	171.17
9:36:33	13.75	6.30	116.67	14.52	3.87	149.37
9:36:53	13.76	6.73	116.31	14.50	3.51	190.24
9:37:13	13.77	7.11	116.59	14.47	3.23	249.65
9:37:33	13.76	7.50	115.99	14.48	3.17	245.42
9:37:53	13.77	7.89	115.21	14.53	3.54	164.84
9:38:13	13.76	8.25	115.07	14.55	3.34	104.98
9:38:33	13.77	8.60	114.18	14.58	3.39	103.18
9:38:53	13.78	8.80	114.34	14.58	3.33	100.45
9:39:13	13.78	8.94	113.84	14.61	3.43	150.31
9:39:33	13.77	9.04	113.88	14.57	3.80	94.42
9:39:53	13.75	9.13	113.92	14.53	3.56	90.94
9:40:13	13.78	9.22	113.71	14.50	3.76	354.92
9:40:33	13.78	9.30	113.97	14.49	3.74	1156.93
9:40:53	13.77	9.37	112.88	14.43	3.62	861.48
9:41:13	13.77	9.45	113.43	14.39	3.24	919.13
9:41:33	13.76	9.53	113.76	14.39	3.91	701.31
9:41:53	13.76	9.65	112.72	14.41	3.64	322.91
9:42:13	13.40	3.47	115.92	14.37	3.95	248.75
9:42:33	12.64	3.89	51.69	14.36	3.53	385.24
9:42:53	12.77	4.20	21.60	14.33	3.33	494.28
9:43:13	12.91	3.97	20.96	14.35	3.68	294.16
9:43:33	13.34	4.48	16.25	14.37	4.04	323.00
9:43:53	13.44	4.43	20.84	14.35	4.05	474.33
9:44:13	13.45	4.39	33.67	14.30	3.68	326.84
9:44:33	13.42	4.15	30.90	14.31	3.91	297.94
9:44:53	13.39	4.01	33.11	14.28	3.52	212.86
9:45:13	13.36	3.58	36.00	14.29	3.86	259.08
9:45:33	13.38	3.85	27.89	14.18	8.54	316.74
9:45:53	13.39	3.98	40.53	13.87	9.44	181.87
9:46:13	13.40	4.01	41.46	13.37	10.20	164.99
9:46:33	13.38	4.11	49.66	12.82	10.18	134.79
9:46:53	13.36	3.85	56.59	12.23	9.92	82.41
9:47:13	13.36	3.66	57.30	11.73	9.92	82.64
9:47:33	13.38	3.87	66.34	11.32	10.02	188.96
9:47:53	13.38	3.85	79.90	10.99	10.01	158.25

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
9:48:13	13.42	3.71	117.36	10.62	10.12	116.05
9:48:33	13.43	3.90	68.65	10.32	10.16	107.81

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
Sensor Name	CO2_101	O2_101	CO_101	CO2_102	O2_102	CO_102
9:51:39	13.37	3.98	25.57	8.76	11.21	181.75
9:51:49	13.36	3.86	30.11	8.60	11.44	145.41

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
Sensor Name	CO2_101	O2_101	CO_101	CO2_102	O2_102	CO_102
9:53:09	13.52	2.98	127.94	7.16	6.03	61.15

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
Sensor Name	CO2_101	O2_101	CO_101	CO2_102	O2_102	CO_102
9:53:19	13.59	3.08	102.87	7.00	5.42	74.60

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
Sensor Name	CO2_101	O2_101	CO_101	CO2_102	O2_102	CO_102
9:53:30	13.61	3.40	85.66	6.98	5.22	228.72
9:53:40	13.65	3.65	62.13	7.07	4.73	213.71
9:53:50	13.69	3.53	50.98	7.25	4.32	249.30
9:54:00	13.71	3.60	55.09	7.49	4.21	427.33
9:54:10	13.71	3.92	60.44	7.78	4.35	538.30
9:54:20	13.73	4.24	44.85	8.03	4.16	640.76
9:54:30	13.75	4.39	32.88	8.42	4.41	584.07
9:54:40	13.73	4.28	28.28	8.77	4.08	451.99
9:54:50	13.71	4.01	23.31	9.12	4.33	268.67
9:55:00	13.69	3.98	29.72	9.46	4.33	231.91
9:55:10	13.63	3.91	33.12	9.79	4.14	437.33
9:55:20	13.63	4.20	25.59	10.11	3.70	578.51
9:55:30	13.57	4.53	18.56	10.42	3.92	544.95
9:55:40	13.57	4.53	16.80	10.73	4.07	517.93
9:55:50	13.52	4.42	19.48	11.00	4.10	506.42
9:56:00	13.50	4.54	18.07	11.33	3.70	430.70
9:56:10	13.48	4.09	18.78	11.56	3.52	365.14
9:56:20	13.43	3.78	26.60	11.82	3.44	569.16
9:56:30	13.42	3.88	39.36	12.02	3.71	545.23
9:56:40	13.41	3.85	48.31	12.23	3.53	489.68
9:56:50	13.41	4.04	36.10	12.43	3.54	513.55
9:57:00	13.40	4.44	24.05	12.64	3.65	583.68
9:57:10	13.41	4.39	21.40	12.77	3.56	481.99
9:57:20	13.41	4.20	25.35	12.94	3.21	493.71

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
9:57:30	13.39	3.95	22.50	13.12	3.05	435.84
9:57:40	13.37	3.88	24.90	13.23	3.14	388.83
9:57:50	13.39	3.77	27.15	13.37	3.23	322.94
9:58:00	13.38	3.68	26.46	13.49	3.41	235.38
9:58:10	13.33	3.58	68.39	13.62	3.51	262.42
9:58:20	13.34	3.68	75.33	13.73	3.36	265.19
9:58:30	13.37	3.60	68.73	13.80	3.35	250.70
9:58:40	13.38	3.48	80.41	13.89	3.45	420.76
9:58:50	13.40	3.86	62.04	13.93	3.61	524.39
9:59:00	13.45	4.07	54.99	14.01	3.95	435.67
9:59:10	13.48	3.81	54.98	14.07	3.64	320.09
9:59:20	13.50	3.62	41.27	14.09	3.86	397.77
9:59:30	13.51	3.97	33.72	14.12	4.24	301.94
9:59:40	13.51	3.94	25.86	14.13	4.24	230.84
9:59:50	13.51	3.84	22.17	14.15	3.68	259.11
10:00:00	13.52	3.94	23.81	14.15	3.38	221.99
10:00:10	13.52	3.87	22.32	14.19	3.42	203.26
10:00:20	13.51	3.85	19.77	14.21	3.40	166.69
10:00:30	13.51	3.68	26.47	14.23	3.86	121.18
10:00:40	13.52	3.58	38.71	14.24	4.06	212.53
10:00:50	13.53	3.64	35.62	14.27	4.47	278.53
10:01:00	13.54	3.76	36.50	14.26	4.17	245.30
10:01:10	13.52	3.83	36.67	14.25	4.14	198.77
10:01:20	13.56	3.81	29.55	14.23	4.45	262.73
10:01:30	13.52	6.52	38.02	14.22	4.18	311.93
10:01:40	13.52	6.43	38.13	14.19	3.90	395.07
10:01:50	13.47	4.74	50.34	14.19	3.78	338.11
10:02:00	13.36	4.18	51.65	14.12	7.82	219.99
10:02:10	13.26	4.05	65.06	14.13	6.41	177.27
10:02:20	13.22	3.63	77.77	14.07	5.00	133.37
10:02:30	13.21	3.60	60.10	13.98	4.42	72.29
10:02:40	13.24	3.57	44.14	13.95	4.40	41.71
10:02:50	13.23	3.36	55.62	13.89	4.24	32.95
10:03:00	13.29	3.66	44.13	13.85	4.15	42.78
10:03:10	13.32	3.99	26.46	13.85	4.43	38.37
10:03:20	13.37	4.26	18.69	13.84	4.46	46.23
10:03:30	13.37	4.24	15.71	13.83	4.38	51.60
10:03:40	13.39	4.07	19.92	13.80	4.14	127.64
10:03:50	13.38	4.22	18.56	13.79	4.34	149.86
10:04:00	13.36	4.15	15.17	13.77	4.52	102.99
10:04:10	13.35	4.10	11.14	13.82	4.63	57.64
10:04:20	13.33	7.52	10.60	13.84	4.50	56.14
10:04:30	13.32	5.47	17.75	13.82	4.72	51.74
10:04:40	13.24	4.73	25.95	13.83	5.44	34.35
10:04:50	13.15	4.42	34.34	13.80	7.09	59.40
10:05:00	13.10	4.05	27.27	13.72	4.88	100.75
10:05:10	13.08	4.04	23.75	13.68	3.95	152.92
10:05:20	13.08	3.95	25.89	13.63	3.75	220.01
10:05:30	13.08	3.96	27.73	13.63	3.59	278.04
10:05:40	13.08	4.02	38.99	13.62	3.66	382.28
10:05:50	13.09	4.00	49.47	13.65	3.77	294.67
10:06:00	13.13	4.11	38.28	13.66	3.16	651.50
10:06:10	13.15	4.30	28.28	13.73	3.11	795.37
10:06:20	13.15	4.23	24.20	13.72	3.29	653.38

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
10:06:30	13.18	3.96	26.26	13.86	3.60	439.41
10:06:40	13.16	5.49	31.58	13.92	3.84	274.70
10:06:50	13.13	7.46	66.48	13.98	4.07	171.58
10:07:00	13.10	4.76	323.60	13.99	4.03	105.77
10:07:10	13.00	3.51	547.08	14.00	4.74	198.19
10:07:20	12.97	3.25	393.08	14.04	6.77	281.72
10:07:30	12.96	3.34	346.19	14.02	4.67	570.12
10:07:40	13.01	3.24	392.44	13.97	3.81	566.65
10:07:50	13.06	3.22	324.23	13.92	3.82	419.39
10:08:00	13.10	3.03	243.28	13.90	3.93	280.41
10:08:10	13.17	2.83	250.17	13.90	4.04	299.54
10:08:20	13.23	2.62	632.93	13.89	4.11	228.79
10:08:30	13.31	2.41	1089.21	13.91	4.16	198.93
10:08:40	13.39	2.40	1182.12	13.95	3.99	279.03
10:08:50	13.48	2.75	956.27	13.95	3.73	381.11
10:09:00	13.55	3.50	542.23	13.96	3.69	529.38
10:09:10	13.60	7.58	288.90	13.98	4.00	389.49
10:09:20	13.63	5.60	158.04	13.99	4.02	371.41
10:09:30	13.59	4.46	100.35	13.99	4.07	373.69
10:09:40	13.48	4.01	81.82	13.99	4.06	374.96
10:09:50	13.43	4.08	59.21	14.06	3.98	454.44
10:10:00	13.43	4.17	37.14	14.05	4.01	455.39
10:10:10	13.41	4.38	26.16	14.08	3.99	455.85
10:10:20	13.40	4.50	25.76	14.07	3.99	456.30
10:10:30	13.38	4.34	24.35	14.06	4.01	456.67
10:10:40	13.36	4.14	19.85	14.06	4.02	456.81
10:10:50	13.34	4.19	16.14	14.06	4.03	457.89
10:11:00	13.33	4.46	15.01	14.05	4.04	458.85
10:11:10	13.30	4.73	21.44	14.06	4.05	459.07
10:11:20	13.31	4.41	23.76	14.07	4.07	460.08
10:11:30	13.29	3.94	25.07	14.05	4.08	459.45
10:11:40	13.15	3.67	73.68	14.04	4.10	460.45
10:11:50	13.18	4.01	88.81	14.06	4.11	461.46
10:12:00	13.16	10.66	54.74	14.04	4.12	461.75
10:12:10	13.13	13.94	28.74	14.04	4.14	462.96
10:12:20	13.00	9.20	21.93	13.95	3.99	664.56
10:12:30	12.72	5.86	11.44	13.93	10.09	418.64
10:12:40	12.44	4.88	6.44	13.91	10.12	567.13
10:12:50	12.22	4.19	9.85	13.81	6.07	1228.26
10:13:00	12.12	3.83	35.20	13.63	4.11	1228.53
10:13:10	12.11	3.67	46.38	13.47	2.90	1228.58
10:13:20	12.13	3.82	24.32	13.40	2.19	1228.59
10:13:30	12.21	3.77	13.38	13.40	1.82	1228.62
10:13:40	12.29	3.42	8.03	13.44	2.27	1228.62
10:13:50	12.39	3.28	6.58	13.47	2.52	1087.29
10:14:00	12.51	3.14	20.99	13.60	2.43	1039.81
10:14:10	12.63	3.18	15.68	13.74	2.36	1228.46
10:14:20	12.72	3.03	12.91	13.86	2.35	1228.62
10:14:30	12.85	3.23	7.85	13.96	2.67	1028.55
10:14:40	12.92	4.46	11.78	14.04	2.43	892.59
10:14:50	13.02	6.42	13.08	14.20	2.29	1228.09
10:15:00	13.08	4.76	15.21	14.27	2.12	1228.62
10:15:10	13.03	3.78	91.41	14.33	5.90	1228.62
10:15:20	13.03	3.44	97.00	14.38	10.12	1228.62

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
10:15:30	13.02	3.35	65.87	14.37	5.89	1228.64
10:15:40	13.09	3.32	44.56	14.23	3.23	1228.63
10:15:50	13.15	3.10	57.26	14.12	2.70	1228.63
10:16:00	13.20	2.78	94.60	14.04	2.63	1228.63
10:16:10	13.27	2.56	88.94	14.01	2.71	1228.64
10:16:20	13.32	2.80	84.92	14.03	2.68	1228.62
10:16:30	13.44	2.84	127.77	14.09	2.25	1228.65
10:16:40	13.52	2.86	196.12	14.15	2.16	1228.63
10:16:50	13.57	3.15	164.01	14.21	2.42	1228.66
10:17:00	13.67	3.12	128.11	14.30	2.33	1228.63
10:17:10	13.70	4.48	97.14	14.36	2.29	1228.63
10:17:20	13.72	8.23	85.38	14.41	2.41	1228.64
10:17:30	13.71	5.30	176.38	14.51	1.92	1228.63
10:17:40	13.62	3.86	185.61	14.53	5.36	1228.66
10:17:50	13.51	3.39	154.48	14.57	4.21	1228.65
10:18:00	13.45	3.10	149.88	14.55	3.36	1228.66
10:18:10	13.46	2.98	192.25	14.52	2.75	1228.62
10:18:20	13.45	2.95	220.41	14.50	2.50	1228.67
10:18:30	13.49	2.71	316.72	14.51	2.85	1228.61
10:18:40	13.56	2.50	406.62	14.51	2.80	1228.66
10:18:50	13.59	2.36	562.99	14.56	2.70	1228.65
10:19:00	13.63	2.56	619.59	14.59	2.22	1228.63
10:19:10	13.72	2.89	409.10	14.62	1.90	1228.66
10:19:20	13.79	2.99	275.02	14.68	1.66	1228.64
10:19:30	13.84	2.91	262.59	14.73	1.67	1228.64
10:19:40	13.88	2.94	205.41	14.79	2.19	1228.64
10:19:50	13.89	8.33	144.51	14.85	2.50	1228.65
10:20:00	13.89	6.33	94.68	14.86	2.51	1228.63
10:20:10	13.78	4.89	76.80	14.92	2.21	1228.63
10:20:20	13.66	4.59	50.05	14.92	6.28	1228.67
10:20:30	13.56	4.46	35.91	14.94	4.74	1228.65
10:20:40	13.48	4.45	28.73	14.87	3.69	1228.66
10:20:50	13.43	4.51	20.91	14.78	3.10	1228.64
10:21:00	13.37	4.36	15.39	14.75	2.54	1228.68
10:21:10	13.36	4.26	17.79	14.71	2.37	1228.63
10:21:20	13.32	4.23	14.54	14.71	2.40	1228.66
10:21:30	13.29	4.07	11.98	14.72	2.66	1228.63
10:21:40	13.28	4.25	11.59	14.76	2.92	1183.23
10:21:50	13.28	4.29	13.45	14.77	2.74	1228.58
10:22:00	13.24	4.31	9.27	14.79	2.60	1228.63
10:22:10	13.26	4.20	7.98	14.78	2.69	1024.90
10:22:20	13.22	5.86	8.80	14.80	2.57	943.74
10:22:30	13.21	7.21	4.33	14.78	2.23	752.67
10:22:40	13.14	5.07	4.15	14.84	2.26	542.11
10:22:50	13.06	4.23	8.71	14.86	6.65	452.84
10:23:00	13.00	4.20	5.15	14.83	4.38	654.20
10:23:10	12.97	3.86	4.24	14.84	2.79	862.55
10:23:20	12.97	3.91	3.62	14.76	2.32	1123.53
10:23:30	12.99	4.24	2.17	14.78	2.11	1228.55
10:23:40	13.03	4.06	1.43	14.80	2.36	1228.61
10:23:50	13.04	4.17	1.79	14.82	1.67	1228.61
10:24:00	13.08	4.11	1.51	14.86	1.31	1228.66
10:24:10	13.11	4.14	2.35	14.92	1.39	1228.62
10:24:20	13.12	3.90	3.26	14.94	1.58	1228.65

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
10:24:30	13.14	3.96	3.09	15.02	1.50	1228.64
10:24:40	13.17	4.03	1.49	15.06	1.31	1228.64
10:24:50	13.19	3.68	0.65	15.12	1.13	1228.65
10:25:00	13.22	3.73	0.50	15.18	1.25	1228.64
10:25:10	13.26	4.00	0.36	15.23	1.73	1228.66
10:25:20	13.27	7.56	7.54	15.28	1.95	1228.64
10:25:30	13.24	5.67	85.32	15.27	2.44	1228.65
10:25:40	13.19	3.86	255.84	15.35	2.79	1228.66
10:25:50	13.14	3.38	208.82	15.31	7.24	1133.72
10:26:00	13.12	3.04	206.91	15.31	4.73	1176.13
10:26:10	13.14	2.96	238.43	15.21	2.66	1228.64
10:26:20	13.19	2.88	174.22	15.12	1.73	1228.66
10:26:30	13.25	2.72	353.89	15.03	1.50	1228.66
10:26:40	13.33	2.66	725.50	15.02	1.01	1228.68
10:26:50	13.39	2.67	671.07	15.04	1.19	1228.67
10:27:00	13.48	2.82	438.44	15.06	1.53	1228.66
10:27:10	13.57	2.93	226.48	15.10	1.73	1228.66
10:27:20	13.61	3.02	140.14	15.14	1.66	1228.65
10:27:30	13.71	2.89	205.11	15.18	1.56	1228.66
10:27:40	13.72	6.18	245.93	15.23	1.55	1228.66
10:27:50	13.75	7.99	164.03	15.21	1.50	1228.68
10:28:00	13.70	5.52	281.24	15.29	1.62	1228.65
10:28:10	13.56	4.40	441.28	15.30	5.89	1228.66
10:28:20	13.43	4.08	382.70	15.31	4.05	1228.66
10:28:30	13.34	3.87	297.14	15.25	3.17	1228.65
10:28:40	13.30	3.76	341.03	15.17	2.78	1193.73
10:28:50	13.29	3.62	707.35	15.10	2.44	1228.63
10:29:00	13.30	3.70	564.88	15.07	2.42	1228.66
10:29:10	13.32	3.65	373.43	15.08	2.10	1228.66
10:29:20	13.34	3.74	332.43	15.08	2.03	1228.67
10:29:30	13.35	3.64	391.33	15.10	2.22	1228.65
10:29:40	13.35	3.66	636.59	15.10	2.22	1228.66
10:29:50	13.39	3.82	559.48	15.13	2.49	1228.67
10:30:00	13.34	3.88	553.52	15.14	2.60	1228.68
10:30:10	13.32	4.88	544.64	15.15	2.74	1228.70
10:30:20	13.30	12.14	267.81	15.16	2.94	1193.30
10:30:30	13.15	15.32	134.15	15.11	2.66	1181.32
10:30:40	12.93	12.79	71.50	15.14	2.80	1170.12
10:30:50	12.57	7.75	37.05	15.01	8.30	707.40
10:31:00	12.18	5.93	22.15	15.01	5.18	834.38
10:31:10	11.84	5.27	13.11	14.93	3.12	1228.50
10:31:20	11.67	4.93	7.58	14.80	2.68	1200.75
10:31:30	11.60	4.50	5.28	14.72	2.65	870.48
10:31:40	11.59	4.35	4.10	14.66	2.69	706.54
10:31:50	11.64	4.35	3.43	14.73	2.79	1226.31
10:32:00	11.70	4.36	2.00	14.73	3.01	1228.61
10:32:10	11.79	4.43	1.36	14.75	2.99	1228.62
10:32:20	11.86	4.49	1.08	14.76	2.92	1228.65
10:32:30	11.96	4.50	0.57	14.76	2.85	1228.66
10:32:40	12.06	4.36	0.37	14.76	2.86	1228.65
10:32:50	12.14	4.55	0.68	14.75	2.82	1056.75
10:33:00	12.22	4.63	0.18	14.71	3.13	667.31
10:33:10	12.31	4.48	0.29	14.75	3.45	502.00
10:33:20	12.32	8.13	-0.01	14.78	2.93	610.86

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
10:33:30	12.40	6.94	1.30	14.83	2.45	1205.39
10:33:40	12.36	5.08	2.41	14.82	2.72	1228.58
10:33:50	12.33	4.48	5.92	14.84	5.55	1211.09
10:34:00	12.31	4.05	14.03	14.82	3.57	1228.64
10:34:10	12.33	3.89	16.37	14.78	2.61	1228.64
10:34:20	12.38	3.95	12.96	14.76	2.25	1228.68
10:34:30	12.44	4.06	7.36	14.75	2.07	1228.63
10:34:40	12.53	4.11	4.88	14.77	1.89	1228.66
10:34:50	12.61	4.10	5.95	14.82	2.11	1228.66
10:35:00	12.68	4.04	6.65	14.87	2.00	1228.67
10:35:10	12.74	4.48	7.19	14.90	1.61	1228.64
10:35:20	12.78	7.57	16.33	14.97	1.78	1228.66
10:35:30	12.82	5.44	43.89	14.99	1.71	1228.67
10:35:40	12.74	4.19	151.36	15.07	3.31	1228.66
10:35:50	12.70	3.63	250.55	15.09	8.03	1228.66
10:36:00	12.69	3.46	190.66	15.08	4.56	1228.65
10:36:10	12.74	3.39	165.38	14.96	2.94	1228.68
10:36:20	12.83	3.31	212.15	14.89	2.06	1228.65
10:36:30	12.91	3.28	323.08	14.82	1.54	1228.66
10:36:40	12.97	3.34	333.85	14.83	1.84	1228.67
10:36:50	13.03	3.22	422.07	14.85	2.23	1228.66
10:37:00	13.13	3.51	294.45	14.87	2.32	1228.66
10:37:10	13.18	7.20	243.18	14.92	2.38	1166.37
10:37:20	13.22	6.04	179.55	14.94	2.33	1228.67
10:37:30	13.18	5.16	180.70	14.90	6.60	980.52
10:37:40	13.10	4.85	164.82	14.91	6.74	710.32
10:37:50	13.07	4.82	102.75	14.82	4.75	623.65
10:38:00	13.00	4.80	80.64	14.75	3.75	491.42
10:38:10	12.99	4.59	68.75	14.67	3.54	341.31
10:38:20	12.97	4.53	84.64	14.62	3.15	606.64
10:38:30	12.98	4.58	117.30	14.62	2.56	1206.80
10:38:40	12.94	4.73	84.84	14.58	2.24	1228.53
10:38:50	12.96	4.79	52.23	14.59	2.16	1228.63
10:39:00	12.93	4.59	85.37	14.62	2.19	1228.61
10:39:10	12.92	4.60	128.71	14.65	2.00	1228.63
10:39:20	12.91	5.20	97.25	14.71	2.18	1228.64
10:39:30	12.89	9.97	49.35	14.70	2.39	1228.64
10:39:40	12.86	6.90	26.11	14.69	3.41	1228.66
10:39:50	12.69	5.16	13.75	14.65	11.17	743.26
10:40:00	12.55	4.56	7.49	14.58	14.39	433.90
10:40:10	12.47	4.44	3.94	14.43	12.69	356.94
10:40:20	12.46	4.38	2.41	14.19	7.29	882.11
10:40:30	12.49	4.40	1.60	13.90	4.12	1228.50
10:40:40	12.52	4.56	1.31	13.62	2.81	1228.57
10:40:50	12.55	4.67	0.85	13.45	2.13	1228.59
10:41:00	12.61	4.47	1.58	13.36	2.16	1228.63
10:41:10	12.64	4.23	1.80	13.34	2.53	1228.65
10:41:20	12.69	4.25	1.99	13.39	2.57	1228.64
10:41:30	12.73	4.25	1.83	13.46	2.47	1228.65
10:41:40	12.77	4.15	1.99	13.55	2.31	1228.65
10:41:50	12.83	4.35	2.99	13.65	2.23	1228.65
10:42:00	12.85	5.56	2.40	13.75	2.30	1228.64
10:42:10	12.86	7.88	4.87	13.84	2.30	1007.50
10:42:20	12.84	5.63	8.55	13.94	2.21	988.81

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
10:42:30	12.74	4.86	10.13	14.01	6.79	935.68
10:42:40	12.69	4.61	10.69	14.11	7.23	829.20
10:42:50	12.67	4.56	20.09	14.18	4.64	1184.97
10:43:00	12.67	4.43	15.83	14.10	3.29	1228.63
10:43:10	12.69	4.48	11.58	14.04	2.93	1228.64
10:43:20	12.72	4.35	21.90	14.03	2.89	1228.65
10:43:30	12.72	4.30	17.85	14.03	2.97	1228.65
10:43:40	12.78	4.55	11.83	14.07	2.83	1228.63
10:43:50	12.76	8.76	14.85	14.11	2.88	1228.66
10:44:00	12.73	6.52	82.21	14.14	2.75	1228.65
10:44:10	12.63	4.72	255.61	14.18	2.86	1083.77
10:44:20	12.54	4.20	255.97	14.19	7.35	726.49
10:44:30	12.50	3.97	220.82	14.24	5.12	894.87
10:44:40	12.53	3.81	275.28	14.28	3.36	1227.62
10:44:50	12.59	3.88	215.00	14.23	3.02	1228.61
10:45:00	12.63	3.86	187.43	14.21	2.91	1228.64
10:45:10	12.72	3.86	164.65	14.20	2.67	1228.64
10:45:20	12.78	3.76	177.94	14.22	2.46	1228.66
10:45:30	12.85	3.89	131.37	14.25	2.43	1228.65
10:45:40	12.93	3.77	122.57	14.29	3.16	1228.66
10:45:50	12.97	5.08	188.32	14.35	3.30	1124.07
10:46:00	13.02	7.74	116.52	14.40	2.43	1228.63
10:46:10	12.99	5.59	72.58	14.46	1.81	1228.65
10:46:20	12.94	4.95	47.22	14.46	4.00	1228.68
10:46:30	12.83	4.59	71.33	14.52	4.70	1228.66
10:46:40	12.80	4.43	65.42	14.55	3.50	1228.65
10:46:50	12.81	4.18	54.89	14.52	2.67	1228.67
10:47:00	12.83	4.11	66.99	14.51	2.71	1228.65
10:47:10	12.88	4.03	65.08	14.49	3.16	1228.66
10:47:20	12.91	4.04	53.34	14.50	3.27	1228.65
10:47:30	12.83	4.13	66.13	14.47	3.31	1228.64
10:47:40	12.89	4.20	71.45	14.47	3.43	1113.82
10:47:50	12.93	4.26	54.67	14.47	3.43	1100.06
10:48:00	12.93	4.15	49.52	14.51	3.20	1228.62
10:48:10	13.00	4.08	33.48	14.51	3.13	1228.66
10:48:20	12.98	9.37	20.49	14.52	3.25	1228.66
10:48:30	12.96	7.96	10.40	14.52	2.98	1228.65
10:48:40	12.85	5.80	5.21	14.56	2.87	1228.67
10:48:50	12.69	4.94	2.52	14.52	3.61	1228.64
10:49:00	12.59	4.51	1.11	14.50	6.61	1228.66
10:49:10	12.53	4.54	0.83	14.50	4.37	1196.48
10:49:20	12.54	4.58	2.58	14.43	3.45	1216.29
10:49:30	12.56	4.53	2.04	14.37	3.19	1199.59
10:49:40	12.60	4.51	1.04	14.33	3.13	1228.65
10:49:50	12.62	4.60	0.53	14.34	3.14	1200.86
10:50:00	12.65	4.63	0.02	14.33	2.88	1228.66
10:50:10	12.70	4.53	0.13	14.34	3.23	1228.65
10:50:20	12.69	6.97	-0.01	14.33	3.42	1104.30
10:50:30	12.70	6.93	-0.54	14.30	3.52	877.37
10:50:40	12.65	5.51	-0.70	14.29	3.61	653.54
10:50:50	12.58	4.97	-0.35	14.35	6.58	441.07
10:51:00	12.53	4.74	-0.47	14.35	5.36	374.59
10:51:10	12.51	4.69	-0.44	14.32	4.45	245.12
10:51:20	12.52	4.60	-0.31	14.26	3.65	284.33

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
10:51:30	12.54	4.56	-0.45	14.21	2.90	284.35
10:51:40	12.58	4.55	-0.68	14.19	2.66	501.35
10:51:50	12.60	4.71	-0.48	14.18	3.39	394.19
10:52:00	12.66	4.38	-0.17	14.22	3.40	302.13
10:52:10	12.68	4.62	-0.52	14.26	2.65	505.83
10:52:20	12.70	4.67	-0.82	14.29	2.19	517.85
10:52:30	12.75	4.62	-0.78	14.37	1.91	568.54
10:52:40	12.73	8.30	-0.70	14.42	1.97	544.80
10:52:50	12.74	6.41	-0.78	14.53	1.52	1228.33
10:53:00	12.64	5.25	0.51	14.61	1.89	1228.54
10:53:10	12.56	4.91	0.66	14.70	2.57	1217.93
10:53:20	12.52	4.60	1.15	14.70	2.68	840.22
10:53:30	12.51	4.39	1.02	14.75	2.92	619.76
10:53:40	12.53	4.69	0.20	14.83	6.07	610.44
10:53:50	12.57	4.65	-0.23	14.89	3.99	1170.57
10:54:00	12.60	4.63	0.51	14.85	2.53	1228.56
10:54:10	12.64	4.72	1.37	14.83	1.93	1228.57
10:54:20	12.68	4.92	0.55	14.82	1.41	1228.63
10:54:30	12.67	5.01	-0.36	14.84	1.31	1228.61
10:54:40	12.69	4.84	-0.34	14.88	1.29	1228.64
10:54:50	12.69	4.87	-0.04	14.94	1.38	1228.62
10:55:00	12.71	4.74	-0.33	15.01	1.39	1228.64
10:55:10	12.67	8.58	-0.62	15.11	1.46	1228.65
10:55:20	12.65	6.89	0.04	15.17	1.65	1228.63
10:55:30	12.56	5.50	0.68	15.25	1.49	1228.65
10:55:40	12.46	4.93	1.30	15.26	4.36	1228.66
10:55:50	12.40	4.97	2.29	15.30	4.27	1228.66
10:56:00	12.39	4.89	3.00	15.29	2.61	1228.64
10:56:10	12.40	4.77	7.08	15.25	1.88	1228.66
10:56:20	12.43	4.82	6.66	15.22	1.41	1228.63
10:56:30	12.45	4.90	4.97	15.21	1.14	1228.65
10:56:40	12.48	5.05	3.04	15.23	1.13	1228.66
10:56:50	12.47	5.03	3.23	15.26	1.32	1228.62
10:57:00	12.51	4.87	1.77	15.31	1.21	1228.67
10:57:10	12.46	9.90	0.37	15.33	1.02	1228.63
10:57:20	12.45	7.51	1.60	15.40	1.04	1228.66
10:57:30	12.32	5.96	1.63	15.44	1.06	1228.65
10:57:40	12.18	5.18	0.72	15.47	1.68	1228.65
10:57:50	12.11	4.72	0.91	15.49	4.66	1228.66
10:58:00	12.11	4.37	0.74	15.50	3.70	1228.64
10:58:10	12.15	4.50	1.24	15.49	3.12	1228.66
10:58:20	12.21	4.52	3.24	15.43	2.72	1190.66
10:58:30	12.28	4.46	3.06	15.32	2.44	1047.14
10:58:40	12.39	4.62	2.14	15.29	2.77	973.53
10:58:50	12.47	4.60	2.72	15.26	2.92	1116.46
10:59:00	12.51	4.65	3.12	15.27	2.69	1228.59
10:59:10	12.55	4.64	2.75	15.24	2.59	1228.63
10:59:20	12.61	4.54	1.65	15.24	2.78	1228.63
10:59:30	12.62	6.77	1.17	15.22	2.85	1228.64
10:59:40	12.65	7.47	1.45	15.13	2.94	1228.65
10:59:50	12.58	5.32	2.72	15.15	3.08	1228.62
11:00:00	12.48	4.62	2.24	15.04	7.92	1073.23
11:00:10	12.45	4.48	1.33	15.01	6.79	769.14
11:00:20	12.47	4.73	1.41	14.92	4.28	1085.29

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:00:30	12.51	4.77	8.76	14.81	3.36	1228.58
11:00:40	12.54	4.55	11.90	14.70	3.19	1124.30
11:00:50	12.55	4.06	9.52	14.57	3.54	816.38
11:01:00	12.61	3.99	6.70	14.50	3.70	602.48
11:01:10	12.67	3.87	4.63	14.48	3.64	498.49
11:01:20	12.78	3.84	13.48	14.47	3.81	471.84
11:01:30	12.83	5.23	23.07	14.47	3.51	469.33
11:01:40	12.88	6.55	22.51	14.40	3.09	473.45
11:01:50	12.87	5.46	13.51	14.38	2.65	674.13
11:02:00	12.81	5.10	6.89	14.38	5.71	858.73
11:02:10	12.77	4.75	5.33	14.41	5.34	777.19
11:02:20	12.75	4.63	2.33	14.39	3.58	764.97
11:02:30	12.77	4.50	1.02	14.35	3.03	935.22
11:02:40	12.78	4.37	0.48	14.34	2.96	1228.50
11:02:50	12.83	4.28	0.58	14.36	2.78	1228.57
11:03:00	12.86	4.41	23.46	14.38	2.33	1228.61
11:03:10	12.90	4.59	23.77	14.39	2.09	1228.61
11:03:20	12.92	4.54	12.16	14.43	2.20	1228.62
11:03:30	12.95	4.43	7.97	14.49	2.60	1228.64
11:03:40	12.97	3.84	36.60	14.55	2.77	1228.63
11:03:50	13.00	3.77	28.93	14.58	2.69	1228.65
11:04:00	13.03	3.80	21.51	14.63	2.58	1228.61
11:04:10	13.11	3.79	17.70	14.68	2.74	1228.65
11:04:20	13.12	8.36	13.71	14.70	2.87	1228.65
11:04:30	13.14	6.14	24.31	14.72	2.61	1228.65
11:04:40	13.03	5.03	45.28	14.73	3.13	1228.64
11:04:50	12.92	4.70	56.87	14.76	5.49	1228.63
11:05:00	12.89	4.57	43.52	14.80	3.91	1228.65
11:05:10	12.88	4.61	42.70	14.83	2.85	1228.63
11:05:20	12.90	4.68	24.82	14.78	2.11	1228.65
11:05:30	12.90	4.95	13.29	14.75	1.82	1228.65
11:05:40	12.89	5.24	13.19	14.74	1.56	1228.63
11:05:50	12.89	5.24	14.86	14.74	1.22	1228.62
11:06:00	12.88	5.18	13.92	14.76	1.09	1228.63
11:06:10	12.84	5.07	14.29	14.80	1.17	1228.66
11:06:20	12.81	4.66	9.68	14.87	1.24	1228.65
11:06:30	12.81	4.49	8.80	14.94	1.17	1228.67
11:06:40	12.82	4.52	11.07	15.01	1.07	1228.63
11:06:50	12.80	4.80	7.00	15.05	0.98	1228.65
11:07:00	12.83	4.52	6.56	15.11	1.07	1228.63
11:07:10	12.83	4.53	6.76	15.19	1.19	1228.64
11:07:20	12.83	4.56	6.34	15.24	1.43	1228.66
11:07:30	12.83	4.58	6.83	15.26	1.78	1228.64
11:07:40	12.84	4.58	6.94	15.32	2.01	1228.66
11:07:50	12.87	4.52	7.13	15.35	1.58	1228.62
11:08:00	13.01	4.53	6.71	15.38	1.48	1228.64
11:08:10	13.11	4.54	6.75	15.44	1.53	1228.65
11:08:20	13.13	4.98	6.05	15.41	1.55	1228.65
11:08:30	13.12	7.44	5.38	15.49	1.45	1228.65
11:08:40	13.10	9.33	6.06	15.57	1.38	1228.64
11:08:50	13.11	8.55	15.96	15.60	1.31	1228.65
11:09:00	13.13	7.27	32.94	15.61	1.40	1228.64
11:09:10	13.12	6.03	51.29	15.44	2.13	1228.65
11:09:20	13.10	5.20	66.99	15.37	2.35	1228.64

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:09:30	13.10	4.70	76.42	15.32	2.38	1228.65
11:09:40	13.06	4.41	81.36	15.26	2.40	1228.61
11:09:50	13.07	4.26	84.12	15.25	2.46	1228.63
11:10:00	13.04	4.19	84.52	15.23	2.49	1228.62
11:10:10	13.01	4.15	84.36	15.24	2.49	1228.64
11:10:20	12.97	4.14	83.95	15.22	2.50	1228.64
11:10:30	12.90	4.13	81.94	15.22	2.49	1228.62
11:10:40	12.86	4.14	81.74	15.21	2.47	1228.63
11:10:50	12.84	4.14	80.67	15.18	2.46	1228.61
11:11:00	12.71	4.14	79.64	15.17	2.47	1228.65
11:11:10	12.64	4.15	80.69	15.18	2.48	1228.63
11:11:20	12.68	4.14	82.52	15.14	2.50	1228.63
11:11:30	12.67	4.14	84.68	15.18	2.51	1228.63
11:11:40	12.65	4.12	86.76	15.17	2.53	1228.62
11:11:50	12.63	4.12	88.17	15.23	2.54	1228.65
11:12:00	12.66	4.10	89.72	15.34	2.55	1228.63
11:12:10	12.71	4.10	91.00	15.32	2.57	1228.63
11:12:20	12.75	4.09	91.13	15.33	2.59	1228.61
11:12:30	12.79	4.09	90.49	15.33	2.59	1228.64
11:12:40	12.81	4.08	89.61	15.32	2.57	1228.63
11:12:50	12.83	4.06	88.53	15.32	2.55	1228.63
11:13:00	12.87	4.05	87.29	15.31	2.53	1228.64
11:13:10	12.90	4.04	85.76	15.29	2.51	1228.63
11:13:20	12.93	4.03	84.85	15.29	2.49	1228.63
11:13:30	12.94	4.03	83.37	15.27	2.47	1228.60
11:13:40	12.99	4.03	81.86	15.27	2.46	1228.62
11:13:50	13.03	4.02	79.78	15.25	2.45	1228.62
11:14:00	13.06	4.01	77.92	15.25	2.46	1228.63
11:14:10	13.09	4.01	75.34	15.26	2.47	1228.63
11:14:20	13.12	4.01	72.34	15.22	2.49	1228.65
11:14:30	13.15	4.01	70.41	15.25	2.48	1228.63
11:14:40	13.18	4.00	68.50	15.24	2.46	1228.63
11:14:50	13.21	4.00	66.63	15.24	2.45	1228.64
11:15:00	13.23	3.99	65.03	15.24	2.43	1228.60
11:15:10	13.24	3.99	64.69	15.24	2.43	1228.63
11:15:20	13.26	4.00	64.85	15.25	2.43	1228.61
11:15:30	13.27	4.00	65.70	15.26	2.42	1228.63
11:15:40	13.30	4.01	66.05	15.24	2.41	1228.63
11:15:50	13.31	4.02	66.44	15.26	2.39	1228.60
11:16:00	13.32	4.04	66.52	15.25	2.37	1228.63
11:16:10	13.37	4.04	67.13	15.26	2.35	1228.61
11:16:20	13.36	4.05	66.81	15.23	2.33	1228.63
11:16:30	13.36	4.07	66.78	15.26	2.31	1228.63
11:16:40	13.37	4.07	66.43	15.26	2.31	1228.63
11:16:50	13.35	4.07	67.45	15.25	2.32	1228.61
11:17:00	13.35	4.07	68.73	15.25	2.34	1228.62
11:17:10	13.34	4.06	73.06	15.27	2.36	1228.63
11:17:20	13.36	4.06	75.36	15.27	2.40	1228.61
11:17:30	13.33	4.06	77.89	15.28	2.42	1228.62
11:17:40	13.37	4.08	78.20	15.25	2.43	1228.63
11:17:50	13.38	4.08	78.28	15.28	2.44	1228.61
11:18:00	13.38	4.10	78.89	15.28	2.47	1228.59
11:18:10	13.37	4.12	77.97	15.27	2.48	1228.62
11:18:20	13.37	4.14	78.07	15.25	2.50	1228.62

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:18:30	13.36	4.15	78.53	15.25	2.52	1228.60
11:18:40	13.37	4.16	78.08	15.25	2.53	1228.62
11:18:50	13.36	4.18	77.98	15.26	2.54	1228.61
11:19:00	13.35	4.20	77.85	15.24	2.54	1228.61
11:19:10	13.36	4.15	77.42	15.25	2.54	1228.61
11:19:20	13.43	4.07	77.36	15.22	2.54	1228.63
11:19:30	13.33	4.07	76.71	15.23	2.54	1228.63
11:19:40	13.32	4.18	74.95	15.23	2.54	1228.62
11:19:50	13.30	4.14	74.45	15.22	2.55	1228.61
11:20:00	13.30	4.04	74.86	15.22	2.55	1228.61
11:20:10	13.29	4.00	74.32	15.21	2.54	1228.61
11:20:20	13.30	3.98	74.26	15.22	2.54	1228.61
11:20:30	13.31	3.95	75.91	15.22	2.54	1228.63
11:20:40	13.33	3.93	79.18	15.22	2.54	1228.59
11:20:50	13.34	3.91	83.91	15.23	2.54	1228.61
11:21:00	13.36	3.89	89.47	15.21	2.53	1228.60
11:21:10	13.37	3.88	95.75	15.21	2.51	1228.61
11:21:20	13.41	3.86	102.19	15.21	2.48	1228.62
11:21:30	13.42	3.85	109.53	15.23	2.45	1228.61
11:21:40	13.44	3.83	117.59	15.22	2.41	1228.62
11:21:50	13.46	3.82	125.74	15.22	2.37	1228.61
11:22:00	13.43	3.81	130.03	15.22	2.32	1228.61
11:22:10	13.48	3.80	134.88	15.21	2.30	1228.59
11:22:20	13.50	3.80	137.07	15.22	2.29	1228.63
11:22:30	13.51	3.80	137.74	15.24	2.29	1228.61
11:22:40	13.53	3.80	139.00	15.25	2.32	1228.59
11:22:50	13.53	3.80	138.94	15.25	2.35	1228.61
11:23:00	13.56	3.80	138.04	15.26	2.37	1228.61
11:23:10	13.56	3.81	136.13	15.25	2.38	1228.62
11:23:20	13.56	3.82	134.27	15.25	2.38	1228.60
11:23:30	13.58	3.82	132.45	15.24	2.37	1228.62
11:23:40	13.59	3.84	130.49	15.24	2.36	1228.61
11:23:50	13.60	3.86	127.38	15.25	2.35	1228.61
11:24:00	13.59	3.87	123.19	15.25	2.36	1228.61
11:24:10	13.62	3.89	118.77	15.22	2.38	1228.61
11:24:20	13.62	3.92	112.52	15.23	2.39	1228.61
11:24:30	13.63	3.94	106.67	15.24	2.39	1228.60
11:24:40	13.63	3.96	100.59	15.26	2.38	1228.63
11:24:50	13.62	3.98	95.53	15.24	2.36	1228.59
11:25:00	13.62	3.99	91.37	15.21	2.34	1228.61
11:25:10	13.60	3.99	87.10	15.24	2.32	1228.60
11:25:20	13.59	4.01	82.98	15.24	2.31	1228.59
11:25:30	13.58	4.02	77.84	15.25	2.31	1228.61
11:25:40	13.58	4.04	72.78	15.22	2.32	1228.61
11:25:50	13.58	4.06	67.85	15.23	2.34	1228.60
11:26:00	13.57	4.07	65.13	15.23	2.34	1228.60
11:26:10	13.55	4.08	61.67	15.24	2.32	1228.62
11:26:20	13.57	4.09	59.36	15.24	2.30	1228.57
11:26:30	13.41	4.09	57.43	15.25	2.30	1228.59
11:26:40	13.32	4.08	56.84	15.26	2.29	1228.59
11:26:50	13.29	4.07	58.72	15.25	2.29	1228.58
11:27:00	13.30	4.06	62.89	15.26	2.31	1228.62
11:27:10	13.31	4.04	67.08	15.27	2.33	1228.60
11:27:20	13.33	4.02	72.13	15.26	2.34	1228.60

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:27:30	13.44	3.98	79.05	15.25	2.36	1228.60
11:27:40	13.48	3.96	85.91	15.28	2.38	1228.63
11:27:50	13.49	3.93	89.12	15.28	2.42	1228.58
11:28:00	13.52	3.92	91.25	15.27	2.46	1228.59
11:28:10	13.50	3.91	90.99	15.28	2.50	1228.61
11:28:20	13.52	3.91	89.77	15.27	2.54	1228.59
11:28:30	13.52	3.91	86.28	15.26	2.56	1228.61
11:28:40	13.52	3.90	83.91	15.25	2.59	1228.59
11:28:50	13.52	3.90	81.85	15.24	2.59	1228.62
11:29:00	13.53	3.89	80.41	15.24	2.60	1228.58
11:29:10	13.52	3.88	78.54	15.21	2.61	1228.63
11:29:20	13.54	3.87	77.57	15.20	2.61	1228.61
11:29:30	13.53	3.86	75.72	15.20	2.62	1228.62
11:29:40	13.54	3.85	72.78	15.19	2.61	1228.61
11:29:50	13.54	3.85	68.96	15.18	2.59	1228.58
11:30:00	13.54	3.84	65.84	15.19	2.56	1228.61
11:30:10	13.55	3.83	62.90	15.17	2.55	1228.58
11:30:20	13.56	3.82	60.39	15.18	2.56	1228.61
11:30:30	13.58	3.83	58.22	15.18	2.57	1228.58
11:30:40	13.60	3.83	56.18	15.16	2.59	1228.61
11:30:50	13.60	3.82	55.24	15.15	2.60	1228.61
11:31:00	13.61	3.82	54.48	15.17	2.61	1228.59
11:31:10	13.62	3.82	55.15	15.13	2.61	1228.61
11:31:20	13.63	3.81	56.70	15.15	2.62	1228.58
11:31:30	13.62	3.80	58.93	15.15	2.62	1228.61
11:31:40	13.61	3.79	63.34	15.14	2.63	1228.61
11:31:50	13.62	3.76	69.34	15.13	2.64	1228.61
11:32:00	13.63	3.74	75.43	15.12	2.63	1228.59
11:32:10	13.63	3.72	83.48	15.11	2.63	1228.61
11:32:20	13.65	3.71	91.33	15.13	2.63	1228.56
11:32:30	13.68	3.69	99.31	15.13	2.63	1228.57
11:32:40	13.70	3.67	107.46	15.12	2.64	1228.59
11:32:50	13.71	3.66	112.80	15.12	2.65	1228.59
11:33:00	13.71	3.65	117.29	15.11	2.67	1228.59
11:33:10	13.72	3.64	118.71	15.11	2.69	1228.57
11:33:20	13.72	3.63	119.15	15.11	2.69	1228.60
11:33:30	13.74	3.63	119.97	15.09	2.68	1228.59
11:33:40	13.75	3.63	120.20	15.10	2.67	1228.57
11:33:50	13.75	3.63	120.73	15.09	2.66	1228.59
11:34:00	13.76	3.63	121.60	15.11	2.66	1228.59
11:34:10	13.76	3.62	121.15	15.09	2.66	1228.60
11:34:20	13.75	3.63	119.84	15.09	2.67	1228.57
11:34:30	13.78	3.64	116.50	15.10	2.68	1228.59
11:34:40	13.79	3.66	112.76	15.08	2.67	1228.59
11:34:50	13.80	3.68	107.29	15.08	2.67	1228.60
11:35:00	13.81	3.69	100.64	15.07	2.67	1228.59
11:35:10	13.79	3.71	94.23	15.08	2.66	1228.59
11:35:20	13.79	3.72	87.48	15.07	2.65	1228.59
11:35:30	13.78	3.74	81.53	15.06	2.63	1228.56
11:35:40	13.77	3.77	74.44	15.06	2.61	1228.59
11:35:50	13.77	3.78	69.98	15.05	2.60	1228.57
11:36:00	13.78	3.81	64.74	15.06	2.57	1228.59
11:36:10	13.77	3.82	59.97	15.03	2.55	1228.57
11:36:20	13.76	3.84	56.19	15.04	2.53	1228.61

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
11:36:30	13.77	3.85	54.27	15.04	2.51	1228.61	
11:36:40	13.75	3.86	53.84	15.05	2.51	1228.59	
11:36:50	13.74	3.88	54.14	15.06	2.50	1228.59	
11:37:00	13.75	3.90	56.39	15.06	2.48	1228.57	
11:37:10	13.73	3.90	59.04	15.06	2.46	1228.59	
11:37:20	13.72	3.91	62.49	15.07	2.45	1228.55	
11:37:30	13.71	3.92	65.62	15.06	2.44	1228.59	
11:37:40	13.68	3.94	67.04	15.08	2.45	1228.57	
11:37:50	13.68	3.95	69.08	15.08	2.46	1228.57	
11:38:00	13.65	3.97	71.21	15.07	2.49	1228.59	
11:38:10	13.66	3.98	74.00	15.09	2.52	1228.57	
11:38:20	13.64	3.99	78.09	15.08	2.56	1228.59	
11:38:30	13.62	3.99	82.62	15.09	2.59	1228.57	
11:38:40	13.62	3.98	89.39	15.08	2.61	1228.60	
11:38:50	13.61	3.97	96.13	15.08	2.63	1228.57	
11:39:00	13.61	3.96	102.87	15.08	2.65	1228.59	
11:39:10	13.60	3.93	111.43	15.08	2.66	1228.58	
11:39:20	13.58	3.91	119.85	15.07	2.67	1228.58	
11:39:30	13.58	3.89	130.19	15.08	2.63	1228.59	
11:39:40	13.56	3.87	139.46	15.08	2.58	1228.55	
11:39:50	13.57	3.86	148.89	15.08	2.52	1228.58	
11:40:00	13.58	3.86	158.22	15.08	2.46	1228.57	
11:40:10	13.59	3.86	167.62	15.10	2.39	1228.59	
11:40:20	13.62	3.86	175.58	15.11	2.34	1228.56	
11:40:30	13.60	3.87	180.67	15.08	2.31	1228.57	
11:40:40	13.60	3.88	184.21	15.12	2.29	1228.57	
11:40:50	13.61	3.89	183.92	15.10	2.28	1228.58	
11:41:00	13.61	3.90	181.96	15.12	2.26	1228.60	
11:41:10	13.62	3.92	176.26	15.14	2.23	1228.57	
11:41:20	13.61	3.92	169.18	15.15	2.21	1228.59	
11:41:30	13.61	3.94	161.35	15.16	2.18	1228.58	
11:41:40	13.61	3.96	154.21	15.16	2.19	1228.59	
11:41:50	13.62	3.97	147.16	15.18	2.22	1228.58	
11:42:00	13.61	3.97	141.83	15.19	2.27	1228.55	
11:42:10	13.61	3.98	135.29	15.19	2.34	1228.58	
11:42:20	13.62	3.98	132.61	15.20	2.39	1228.59	
11:42:30	13.61	3.98	128.75	15.20	2.42	1228.56	
11:42:40	13.59	3.97	126.55	15.22	2.44	1228.59	
11:42:50	13.61	3.97	125.89	15.19	2.44	1228.59	
11:43:00	13.60	3.96	125.93	15.20	2.45	1228.57	
11:43:10	13.60	3.94	126.13	15.22	2.45	1228.56	
11:43:20	13.60	3.93	127.06	15.20	2.45	1228.55	
11:43:30	13.59	3.92	127.44	15.21	2.44	1228.57	
11:43:40	13.60	3.91	128.61	15.20	2.44	1228.59	
11:43:50	13.61	3.90	128.37	15.21	2.45	1228.56	
11:44:00	13.60	3.89	127.85	15.20	2.46	1228.57	
11:44:10	13.60	3.88	127.55	15.19	2.46	1228.57	
11:44:20	13.61	3.88	127.23	15.21	2.46	1228.59	
11:44:30	13.61	3.87	127.47	15.20	2.45	1228.57	
11:44:40	13.63	3.87	127.44	15.17	2.44	1228.59	
11:44:50	13.62	3.87	127.64	15.20	2.43	1228.56	
average	13.55	3.91	96.45	15.18	2.47	1228.60	Test 23
minimum	13.23	3.62	53.84	15.03	2.18	1228.55	
maximum	13.81	4.20	184.21	15.28	2.69	1228.63	

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106		IPPGAS/102	IPPGAS/103	
Units:	%CO2	%O2	PPM_CO		%O2	PPM_CO	
Group:							
Tag:	WestCO2	WestO2	WestCO		EastO2	EastCO	
Sensor Name	CO2_102	O2_102	CO_102				
13:09:00	11.07	3.71	218.54	Test 24	8.19	42.56	Test 24
13:09:10	11.54	3.85	93.97		5.52	54.20	
13:09:20	12.06	3.78	43.59		4.04	104.84	
13:09:30	12.62	3.60	37.48		3.61	100.14	
13:09:40	12.77	3.50	76.50		3.57	82.55	
13:09:50	12.86	3.66	183.10		3.40	84.78	
13:10:00	12.95	3.54	123.14		3.21	117.45	
13:10:10	13.04	3.83	70.46		3.17	98.53	
13:10:20	13.15	3.89	59.29		3.01	90.45	
13:10:30	13.19	3.99	80.05		2.97	135.05	
13:10:40	13.24	3.74	92.46		3.02	163.22	
13:10:50	13.34	3.41	277.84		2.96	194.83	
13:11:00	13.44	3.25	437.24		2.71	432.11	
13:11:10	13.52	3.50	368.08		2.80	491.52	
13:11:20	13.60	3.72	272.82		3.10	243.33	
13:11:30	13.67	3.56	196.92		3.08	137.69	
13:11:40	13.74	3.17	260.31		2.96	147.95	
13:11:50	13.83	3.28	280.58		2.98	213.47	Tap 1 - 1
13:12:00	13.90	3.54	181.91		4.92	221.53	
13:12:10	13.93	3.83	94.17		7.29	139.37	
		3.62	172.42	Tap 8 - 1	4.26	107.91	
13:12:20	13.95	7.58	64.80		3.50	93.01	
13:12:30	13.87	4.26	570.93		3.40	66.13	
13:12:40	13.75	3.95	497.18		2.74	106.57	
13:12:50	13.75	3.59	463.27		2.63	123.74	
13:13:00	13.76	3.59	350.71		2.71	105.53	
13:13:10	13.80	3.61	227.45		2.79	61.98	
13:13:20	13.90	3.06	184.73		2.73	150.75	
13:13:30	13.97	2.99	191.74		2.76	180.57	
13:13:40	14.05	3.42	143.84		2.66	139.00	
13:13:50	14.09	3.59	215.58		2.77	84.47	
13:14:00	14.15	3.63	165.73		2.72	119.08	Tap 1 - 2
13:14:10	14.12	3.42	158.29		11.25	35.80	
13:14:20	14.21	3.18	153.73		7.58	140.94	
		3.41	225.51	Tap 8 - 2	4.38	131.88	
13:14:30	14.18	7.70	136.26		3.57	146.69	
13:14:40	14.03	4.70	211.31		3.08	296.72	
13:14:50	13.92	3.92	323.72		2.72	409.90	
13:15:00	13.85	3.09	760.06		2.67	441.27	
13:15:10	13.89	3.30	529.02		2.89	245.42	
13:15:20	13.98	3.40	458.25		2.68	211.41	
13:15:30	14.01	3.62	476.44		2.36	528.25	
13:15:40	14.05	3.82	210.07		2.73	340.74	
13:15:50	14.11	3.58	119.47		3.15	205.43	
13:16:00	14.10	3.63	95.51		2.77	251.88	
13:16:10	14.13	3.78	109.21		2.78	329.67	Tap 1 - 3

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106		IPPGAS/102	IPPGAS/103	
Units:	%CO2	%O2	PPM_CO		%O2	PPM_CO	
Group:							
Tag:	WestCO2	WestO2	WestCO		EastO2	EastCO	
13:16:20	14.14	3.84	69.88		6.06	321.34	
		3.71	180.10	Tap 8 - 3	7.01	247.73	
13:16:30	14.15	4.11	86.84		3.99	256.22	
13:16:40	14.12	8.54	49.98		3.17	164.30	
13:16:50	13.97	5.64	172.67		2.79	182.13	
13:17:00	13.80	3.96	461.33		2.55	626.90	
13:17:10	13.71	3.43	1103.56		2.64	675.19	
13:17:20	13.71	3.93	574.70		2.53	649.62	
13:17:30	13.76	3.84	369.72		2.51	535.64	
13:17:40	13.82	3.53	404.58		2.45	471.47	
13:17:50	13.85	3.42	369.30		2.45	683.77	
13:18:00	13.90	3.55	245.22		2.55	582.78	
13:18:10	13.95	3.54	528.90		2.56	650.94	Tap 1 - 4
		3.61	513.71	Tap 8 - 4			
13:18:20	14.00	3.49	544.24		7.60	463.27	
13:18:30	13.95	3.44	594.75		5.05	363.46	
13:18:40	13.97	3.42	595.29		3.63	279.17	
13:18:50	13.97	3.44	595.66		3.43	180.98	
13:19:00	13.96	3.47	596.26		3.35	135.38	
13:19:10	13.97	3.47	595.73		3.16	187.77	
13:19:20	13.98	3.48	596.03		2.98	193.24	
13:19:30	13.97	3.49	596.46		2.99	120.63	
13:19:40	13.96	3.50	595.36		3.11	88.43	
13:19:50	13.96	3.51	596.99		3.27	56.65	
13:20:00	13.96	3.52	596.41		3.22	68.54	
13:20:10	13.95	3.54	596.86		3.28	123.71	
13:20:20	13.96	3.55	597.30		3.30	99.32	
		3.49	592.10	Tap 9 - 1	3.18	119.30	Tap 2 - 1
13:20:30	14.00	3.28	667.67		5.59	67.01	
13:20:40	13.94	8.65	356.71		6.24	51.16	
13:20:50	13.78	10.73	233.08		3.47	98.00	
13:21:00	13.50	5.98	333.51		2.73	147.69	
13:21:10	13.25	4.21	261.80		2.31	251.02	
13:21:20	13.15	3.99	177.65		2.18	238.84	
13:21:30	13.15	4.17	107.79		2.24	155.06	
13:21:40	13.21	4.32	305.61		2.59	102.30	
13:21:50	13.26	4.13	386.54		1.67	552.59	
13:22:00	13.30	4.08	210.24		1.28	1218.09	
13:22:10	13.38	4.19	115.88		1.28	753.64	
13:22:20	13.43	4.12	93.74		1.46	463.23	
13:22:30	13.49	3.74	157.15		1.39	466.85	Tap 2 - 2
		4.09	194.33	Tap 9 - 2	4.57	451.84	
13:22:40	13.57	2.94	451.96		4.91	589.49	
13:22:50	13.57	7.84	398.28		2.98	602.95	
13:23:00	13.58	6.92	250.54		2.40	364.27	
13:23:10	13.46	4.65	160.10		2.03	492.36	
13:23:20	13.36	3.60	246.61		1.82	487.64	

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106		IPPGAS/102	IPPGAS/103	
Units:	%CO2	%O2	PPM_CO		%O2	PPM_CO	
Group:							
Tag:	WestCO2	WestO2	WestCO		EastO2	EastCO	
13:23:30	13.38	3.20	215.10		1.76	559.56	
13:23:40	13.45	2.96	226.95		1.66	612.15	
13:23:50	13.57	2.81	192.02		2.10	444.19	
13:24:00	13.71	2.66	383.41		1.94	407.74	
13:24:10	13.81	2.75	595.35		1.69	537.06	
13:24:20	13.95	2.88	448.00		1.71	582.85	
13:24:30	13.98	2.88	677.09		1.94	542.28	
13:24:40	14.11	2.70	887.42		1.65	518.43	Tap 2 - 3
13:24:50	14.22	2.46	1228.31		3.12	402.94	
13:25:00	14.36	2.78	1195.45		11.70	176.65	
		2.76	648.22	Tap 9 - 3	6.62	211.47	
13:25:10	14.34	6.69	1228.38		3.71	476.07	
13:25:20	14.34	5.35	1228.39		2.97	461.64	
13:25:30	14.22	3.68	1190.96		2.53	523.26	
13:25:40	14.15	2.57	1228.41		2.06	1217.95	
13:25:50	14.15	2.72	1228.44		2.20	1054.51	
13:26:00	14.19	2.61	1228.44		2.26	700.15	
13:26:10	14.26	2.31	1228.43		2.26	634.20	
13:26:20	14.36	2.52	1228.46		2.24	670.66	
13:26:30	14.38	2.50	885.78		2.27	1016.22	
13:26:40	14.45	2.77	836.12		2.53	503.31	
13:26:50	14.52	3.36	470.79		2.45	445.61	
13:27:00	14.55	3.60	325.07		2.31	751.76	Tap 2 - 4
13:27:10	14.47	3.02	734.49		6.92	274.09	
		2.80	939.44	Tap 9 - 4	5.08	199.63	
13:27:20	14.38	5.34	635.50		3.38	200.20	
13:27:30	14.35	12.36	283.56		2.92	179.40	
13:27:40	14.06	6.97	251.95		2.51	282.62	
13:27:50	13.69	5.11	266.41		2.66	244.09	
13:28:00	13.53	4.10	423.88		2.71	182.05	
13:28:10	13.45	3.66	865.84		3.05	125.12	
13:28:20	13.50	2.94	1180.78		3.00	71.38	
13:28:30	13.58	3.34	1136.91		2.82	100.61	
13:28:40	13.62	3.44	781.50		2.66	289.89	
13:28:50	13.70	3.38	793.54		2.95	287.14	
13:29:00	13.76	3.98	489.05		3.10	136.12	
13:29:10	13.87	3.68	294.26		3.09	90.49	
13:29:20	13.87	3.60	214.46		2.86	180.61	Tap 3 - 1
13:29:30	13.90	3.83	198.23		3.26	59.91	
		3.54	661.62	Tap 10 - 1	7.63	37.46	
13:29:40	13.90	5.51	188.88		4.39	33.40	
13:29:50	13.87	7.08	268.40		3.61	22.47	
13:30:00	13.72	4.13	1072.65		3.48	16.80	
13:30:10	13.58	3.56	904.61		3.06	24.14	
13:30:20	13.62	3.25	1228.18		3.08	28.26	
13:30:30	13.67	2.88	1228.36		2.89	52.32	
13:30:40	13.78	2.59	1228.42		3.18	33.36	

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106		IPPGAS/102	IPPGAS/103	
Units:	%CO2	%O2	PPM_CO		%O2	PPM_CO	
Group:							
Tag:	WestCO2	WestO2	WestCO		EastO2	EastCO	
13:30:50	13.88	2.78	1228.44		3.33	21.83	
13:31:00	13.97	3.15	1228.42		3.09	29.05	
13:31:10	13.99	3.80	924.39		2.91	29.14	
13:31:20	14.08	3.22	1228.33		2.74	59.19	
13:31:30	14.10	2.95	1228.43		3.04	34.66	Tap 3 - 2
13:31:40	14.13	2.55	1228.46		4.74	34.10	
13:31:50	14.20	3.36	1228.44		8.34	117.57	
		3.05	1197.99	Tap 10 - 2	4.60	235.35	
13:32:00	14.23	6.71	1228.39		3.36	467.34	
13:32:10	14.16	3.22	1228.45		2.92	650.40	
13:32:20	14.05	2.18	1228.46		2.67	675.14	
13:32:30	14.09	2.32	1228.45		2.76	397.55	
13:32:40	14.18	2.46	1228.49		2.73	584.20	
13:32:50	14.28	2.16	1228.46		2.57	909.24	
13:33:00	14.36	1.69	1228.48		2.54	761.60	
13:33:10	14.46	2.05	1228.45		2.54	459.12	
13:33:20	14.58	1.79	1228.44		2.54	390.79	
13:33:30	14.69	2.05	1228.48		2.66	603.51	
13:33:40	14.73	2.27	1228.46		4.94	398.26	
		2.11	1228.46	Tap 10 - 3	7.98	243.89	
13:33:50	14.77	5.07	1228.48		5.11	210.74	
13:34:00	14.75	5.00	1228.46		4.20	346.84	
13:34:10	14.56	3.60	805.69		3.88	638.76	
13:34:20	14.46	3.15	495.66		4.01	350.96	
13:34:30	14.47	3.17	413.75		3.66	504.17	
13:34:40	14.46	2.67	847.20		3.70	634.72	
13:34:50	14.49	2.69	829.09		3.97	337.85	
13:35:00	14.56	2.23	1228.32		3.99	195.72	
13:35:10	14.63	2.18	1228.40		3.90	103.96	
13:35:20	14.70	2.03	1228.46		4.08	114.37	
13:35:30	14.77	2.18	1228.44		3.96	333.00	
13:35:40	14.82	2.13	1228.46		3.86	511.13	
13:35:50	14.90	2.32	1157.70		3.90	372.46	Tap 3 - 4
13:36:00	14.91	2.28	1096.41		6.10	261.16	
13:36:10	14.95	2.05	1228.43		14.35	89.50	
13:36:20	15.00	1.92	1228.44		16.59	39.81	
		2.15	1205.90	Tap 10 - 4	15.80	19.79	
13:36:30	14.93	8.66	1228.47		8.37	19.90	
13:36:40	14.78	5.93	859.04		5.86	18.11	
13:36:50	14.49	4.31	612.66		5.15	13.07	
13:37:00	14.35	3.89	530.05		4.77	9.61	
13:37:10	14.27	3.68	713.06		4.38	12.48	
13:37:20	14.25	3.40	731.89		4.62	16.93	
13:37:30	14.18	3.56	634.74		4.53	8.86	
13:37:40	14.21	3.46	654.60		4.52	8.72	
13:37:50	14.26	3.68	376.96		4.62	5.86	
13:38:00	14.28	3.82	375.93		4.38	7.25	

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106		IPPGAS/102	IPPGAS/103	
Units:	%CO2	%O2	PPM_CO		%O2	PPM_CO	
Group:							
Tag:	WestCO2	WestO2	WestCO		EastO2	EastCO	
13:38:10	14.29	3.98	332.99		4.19	7.39	
13:38:20	14.28	3.63	280.05		4.18	7.81	
13:38:30	14.24	3.97	213.79		4.59	5.61	
13:38:40	14.19	3.77	216.87		4.44	8.99	Tap 4 - 1
13:38:50	14.20	3.94	295.93		7.83	3.84	
		3.73	446.41	Tap 11 - 1	5.34	5.62	
13:39:00	14.15	8.56	280.95		4.15	31.18	
13:39:10	13.99	4.82	615.90		4.36	21.66	
13:39:20	13.84	3.67	1126.80		4.45	23.52	
13:39:30	13.80	2.96	1228.35		4.36	18.67	
13:39:40	13.83	2.38	1228.37		4.16	8.48	
13:39:50	13.92	2.52	1228.42		4.30	6.16	
13:40:00	14.03	2.56	1228.42		4.07	8.20	
13:40:10	14.14	2.24	1228.45		3.97	10.96	
13:40:20	14.26	1.93	1228.46		3.97	10.89	
13:40:30	14.35	2.39	1228.44		4.14	7.22	
13:40:40	14.43	2.12	1228.46		4.19	14.69	Tap 4 - 2
13:40:50	14.50	2.46	997.98		6.12	3.15	
		2.32	1199.62	Tap 11 - 2	8.97	49.13	
13:41:00	14.50	8.12	1089.70		5.50	63.30	
13:41:10	14.43	5.18	828.89		4.18	197.38	
13:41:20	14.32	3.32	1228.33		3.79	231.90	
13:41:30	14.23	2.81	1177.38		3.46	517.43	
13:41:40	14.19	2.96	907.69		3.78	206.74	
13:41:50	14.23	2.72	1092.77		3.91	90.60	
13:42:00	14.32	2.54	1228.42		3.72	78.17	
13:42:10	14.35	2.64	773.09		3.75	94.36	
13:42:20	14.42	3.03	478.15		3.64	248.02	
13:42:30	14.49	2.53	732.45		3.86	230.83	
13:42:40	14.52	2.68	950.40		3.83	394.30	
13:42:50	14.53	2.95	798.34		3.75	232.48	Tap 4 - 3
		2.76	904.30	Tap 11 - 3	8.50	241.22	
13:43:00	14.55	4.16	1025.15		6.88	118.69	
13:43:10	14.52	6.61	823.83		5.68	49.26	
13:43:20	14.40	4.04	1140.31		5.72	28.49	
13:43:30	14.23	3.48	924.93		5.51	17.94	
13:43:40	14.14	3.15	610.09		5.45	21.79	
13:43:50	14.18	3.24	483.54		5.14	20.97	
13:44:00	14.23	3.02	557.63		5.13	23.48	
13:44:10	14.24	2.83	682.17		5.03	16.27	
13:44:20	14.37	2.62	1228.25		5.01	21.29	
13:44:30	14.37	3.13	930.13		5.24	18.53	
13:44:40	14.37	3.25	614.91		5.08	31.38	
13:44:50	14.38	3.11	637.76		4.75	31.49	
13:45:00	14.49	2.52	1227.94		4.80	36.34	
13:45:10	14.52	2.44	1228.38		4.72	45.97	
13:45:20	14.58	2.29	1228.40		4.84	41.15	

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106		IPPGAS/102	IPPGAS/103	
Units:	%CO2	%O2	PPM_CO		%O2	PPM_CO	
Group:							
Tag:	WestCO2	WestO2	WestCO		EastO2	EastCO	
13:45:30	14.62	2.51	1228.45		4.97	28.69	Tap 4 - 4
13:45:40	14.53	3.23	1061.73		5.34	37.92	
		2.87	901.49	Tap 11 - 4	10.41	18.60	
13:45:50	14.37	10.54	414.25		5.56	45.97	
13:46:00	13.87	15.21	209.65		4.17	51.99	
13:46:10	13.37	16.57	132.75		3.82	35.49	
13:46:20	12.81	14.22	132.54		3.49	48.83	
13:46:30	12.27	6.87	570.39		3.57	58.37	
13:46:40	11.84	4.80	565.43		3.95	34.41	
13:46:50	11.63	3.83	582.46		3.82	16.24	
13:47:00	11.63	3.64	502.97		3.80	10.57	
13:47:10	11.80	3.72	563.96		3.84	11.25	
13:47:20	11.96	3.76	497.02		3.90	7.93	
13:47:30	12.19	4.06	275.70		3.89	4.10	
13:47:40	12.37	3.84	199.10		3.70	7.94	
13:47:50	12.51	3.82	239.33		3.97	14.58	
13:48:00	12.63	3.74	360.44		3.80	22.70	Tap 5 - 1
13:48:10	12.80	4.02	379.30		10.05	7.23	
		3.83	400.03	Tap 12 - 1	5.99	14.34	
13:48:20	12.89	8.42	330.19		4.45	11.22	
13:48:30	12.90	5.23	302.04		4.12	7.32	
13:48:40	12.84	3.93	534.54		3.71	14.62	
13:48:50	12.89	3.12	761.51		4.07	14.23	
13:49:00	13.00	3.24	571.69		4.00	9.71	
13:49:10	13.11	2.73	986.57		4.07	11.36	
13:49:20	13.19	2.85	644.40		4.05	38.29	
13:49:30	13.41	2.93	475.28		4.03	18.71	
13:49:40	13.56	2.94	351.40		3.89	13.08	
13:49:50	13.72	2.90	445.78		3.96	10.77	
13:50:00	13.85	2.97	435.29		4.18	5.25	
13:50:10	13.87	2.81	628.53		4.01	14.33	Tap 5 - 2
13:50:20	13.98	3.11	497.02		7.02	3.84	
		2.96	579.75	Tap 12 - 2	9.70	17.34	
13:50:30	14.07	5.72	308.68		5.61	59.17	
13:50:40	14.08	8.27	193.24		4.06	175.11	
13:50:50	13.93	5.38	292.21		3.60	252.75	
13:51:00	13.72	4.42	237.47		3.63	173.19	
13:51:10	13.64	4.22	197.50		3.64	102.83	
13:51:20	13.63	3.89	176.97		3.54	148.39	
13:51:30	13.64	3.69	192.50		3.48	122.65	
13:51:40	13.67	3.90	158.49		3.54	195.78	
13:51:50	13.71	3.95	97.55		3.64	103.64	
13:52:00	13.77	3.59	203.67		3.61	82.23	
13:52:10	13.80	3.90	179.04		3.69	135.99	
13:52:20	13.86	3.54	304.04		3.33	425.43	
13:52:30	13.87	3.59	222.99		3.57	174.29	Tap 5 - 3
13:52:40	13.91	3.82	136.15		6.27	258.12	

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106		IPPGAS/102	IPPGAS/103	
Units:	%CO2	%O2	PPM_CO		%O2	PPM_CO	
Group:							
Tag:	WestCO2	WestO2	WestCO		EastO2	EastCO	
		8.76	185.71	Tap 12 - 3	7.45	132.17	
13:52:50	13.92	6.46	399.98		5.17	78.78	
13:53:00	13.89	8.58	379.73		4.20	59.51	
13:53:10	13.74	4.76	1156.89		3.95	61.86	
13:53:20	13.59	3.51	1228.30		3.78	43.70	
13:53:30	13.52	2.80	1228.40		3.72	51.41	
13:53:40	13.54	2.83	1228.41		3.87	50.92	
13:53:50	13.64	2.74	1228.44		3.89	66.71	
13:54:00	13.76	2.84	1148.75		3.71	87.72	
13:54:10	13.83	2.87	1004.42		3.73	61.17	
13:54:20	13.96	2.77	1206.76		3.71	82.71	
13:54:30	14.02	2.68	1228.44		3.80	72.95	
13:54:40	14.09	2.66	1228.41		3.77	42.08	
13:54:50	14.19	2.74	1141.66		3.77	62.15	Tap 5 - 4
13:55:00	14.20	2.87	944.17		7.10	33.78	
		2.78	1155.79	Tap 12 - 4	10.28	14.86	
13:55:10	14.24	4.14	917.18		6.07	9.64	
13:55:20	14.26	7.43	579.98		4.94	6.37	
13:55:30	14.15	4.93	469.56		4.52	3.12	
13:55:40	14.00	4.26	346.37		4.45	0.89	
13:55:50	13.93	4.26	235.38		4.57	1.31	
13:56:00	13.89	4.10	197.48		4.61	1.73	
13:56:10	13.87	4.16	216.93		4.52	0.33	
13:56:20	13.88	4.21	174.13		4.62	-0.58	
13:56:30	13.89	4.16	176.85		4.72	-0.09	
13:56:40	13.86	3.93	207.80		4.74	-0.62	
13:56:50	13.89	3.73	253.67		4.62	-0.37	
13:57:00	13.86	3.52	528.81		4.60	0.64	Tap 6 - 1
		4.04	259.71	Tap 13 - 1	9.80	-1.73	
13:57:10	13.90	4.36	369.69		6.60	-2.33	
13:57:20	13.91	7.06	296.94		5.32	-2.22	
13:57:30	13.81	4.48	395.77		4.69	-2.14	
13:57:40	13.73	3.31	257.60		4.55	-1.94	
13:57:50	13.71	2.58	247.81		4.44	-1.46	
13:58:00	13.83	2.89	151.08		4.51	-2.57	
13:58:10	13.91	2.96	224.52		4.54	0.91	
13:58:20	14.04	1.85	1177.32		4.23	4.70	
13:58:30	14.14	1.23	1228.33		4.52	1.59	
13:58:40	14.28	1.38	1228.39		4.63	-0.61	
13:58:50	14.44	1.75	1228.42		4.63	2.05	
13:59:00	14.58	1.93	1191.57		4.51	0.33	Tap 6 - 2
13:59:10	14.65	1.95	1003.53		9.47	-0.44	
13:59:20	14.71	2.77	494.45		6.90	0.61	
13:59:30	14.78	3.13	364.59		5.04	-1.46	
13:59:40	14.80	2.66	509.03		4.28	-0.09	
13:59:50	14.80	2.34	629.52		4.18	0.08	
14:00:00	14.86	1.96	976.89		4.16	0.47	

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106		IPPGAS/102	IPPGAS/103	
Units:	%CO2	%O2	PPM_CO		%O2	PPM_CO	
Group:							
Tag:	WestCO2	WestO2	WestCO		EastO2	EastCO	
14:00:10	14.95	1.87	1170.25		3.97	6.76	
		2.22	788.38	Tap 13 - 2	4.06	6.33	
14:00:20	14.88	6.32	752.52		4.09	11.62	
14:00:30	14.86	9.15	972.25		4.30	2.81	
14:00:40	14.68	3.87	1228.40		4.60	-0.16	
14:00:50	14.46	2.11	1228.43		4.59	-1.41	
14:01:00	14.36	1.64	1228.46		4.16	1.18	
14:01:10	14.41	1.55	1228.46		4.17	0.70	
14:01:20	14.49	2.11	1228.46		4.29	-0.67	
14:01:30	14.59	2.05	1228.49		4.16	1.59	
14:01:40	14.68	1.99	1228.49		4.14	0.01	
14:01:50	14.75	2.15	1142.78		4.26	1.90	
14:02:00	14.84	2.16	1228.40		4.33	2.01	
14:02:10	14.89	2.35	1228.48		4.09	30.22	
14:02:20	14.92	2.07	1228.50		4.13	36.72	
14:02:30	14.97	1.89	1228.50		4.22	5.89	Tap 6 - 3
14:02:40	15.01	1.59	1228.52		5.85	13.27	
		1.97	1221.33	Tap 13 - 3	8.13	9.23	
14:02:50	15.01	6.25	1228.49		5.24	5.31	
14:03:00	14.98	5.78	1228.51		4.54	2.42	
14:03:10	14.81	3.28	1228.51		4.47	0.29	
14:03:20	14.65	2.36	1228.51		4.21	1.47	
14:03:30	14.62	2.10	1228.52		4.59	0.15	
14:03:40	14.67	1.78	1228.50		4.28	22.93	
14:03:50	14.74	1.79	1228.52		4.42	15.14	
14:04:00	14.81	1.74	1228.49		4.29	11.42	
14:04:10	14.89	1.53	1228.54		4.10	5.71	
14:04:20	14.98	1.36	1228.50		3.87	2.19	
14:04:30	15.06	1.14	1228.53		4.43	1.11	
14:04:40	15.16	1.20	1228.51		4.29	6.71	Tap 6 - 4
14:04:50	15.26	1.51	1228.50		9.48	-0.81	
		1.57	1228.51	Tap 13 - 4	5.94	-1.20	
14:05:00	15.26	7.54	1228.50		5.28	-1.98	
14:05:10	15.21	5.89	1180.59		5.11	-2.44	
14:05:20	14.95	3.71	998.96		5.05	-2.43	
14:05:30	14.76	3.18	810.61		4.78	-2.26	
14:05:40	14.62	3.41	620.38		4.71	-0.99	
14:05:50	14.68	3.43	441.18		4.90	-1.37	
14:06:00	14.64	3.29	304.95		4.79	2.84	
14:06:10	14.64	3.28	254.51		4.17	24.69	
14:06:20	14.63	3.29	219.88		3.96	7.99	
14:06:30	14.63	3.21	277.08		4.36	2.12	
14:06:40	14.64	3.07	425.45		4.82	-0.70	
14:06:50	14.58	2.97	578.31		4.56	4.04	Tap 7 - 1
14:07:00	14.57	3.16	481.15		9.70	-2.03	
		3.23	441.35	Tap 14 - 1	8.52	-2.25	
14:07:10	14.55	8.82	286.41		5.00	139.68	

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106		IPPGAS/102	IPPGAS/103	
Units:	%CO2	%O2	PPM_CO		%O2	PPM_CO	
Group:							
Tag:	WestCO2	WestO2	WestCO		EastO2	EastCO	
14:07:20	14.47	6.19	201.71		4.30	118.80	
14:07:30	14.27	4.61	168.41		3.88	44.33	
14:07:40	14.13	3.73	212.73		3.99	23.80	
14:07:50	14.08	3.17	184.37		3.96	11.78	
14:08:00	14.07	3.05	173.40		4.12	4.93	
14:08:10	14.11	3.27	209.02		3.79	4.87	
14:08:20	14.13	3.53	223.68		3.40	19.01	
14:08:30	14.19	3.79	137.57		3.91	38.89	
14:08:40	14.21	3.40	136.90		3.73	50.03	
14:08:50	14.25	2.84	232.83		3.85	24.70	Tap 7 - 2
14:09:00	14.25	2.77	307.45		4.31	25.01	
14:09:10	14.32	2.97	398.13		9.45	9.27	
		3.20	222.59	Tap 14 - 2	7.41	21.78	
14:09:20	14.34	6.89	595.75		5.09	10.72	
14:09:30	14.28	4.17	1035.58		4.52	4.44	
14:09:40	14.19	3.45	900.64		4.36	6.85	
14:09:50	14.14	2.71	1023.12		4.34	3.02	
14:10:00	14.18	2.93	1067.60		4.08	7.13	
14:10:10	14.22	3.13	772.68		3.83	16.85	
14:10:20	14.26	2.85	701.23		3.75	14.10	
14:10:30	14.35	2.36	1071.24		3.57	76.07	
14:10:40	14.43	2.28	1228.42		3.59	61.32	
14:10:50	14.54	2.62	1163.34		3.54	51.94	
14:11:00	14.54	2.67	1087.68		3.38	88.96	
14:11:10	14.62	2.42	1228.46		3.60	61.38	
14:11:20	14.66	2.46	1228.49		3.57	58.96	Tap 7 - 3
14:11:30	14.62	2.56	867.58		4.11	51.47	
14:11:40	14.72	2.53	1022.25		8.58	20.43	
		2.49	1112.18	Tap 14 - 3	6.51	24.47	
14:11:50	14.73	6.30	1037.05		5.14	27.26	
14:12:00	14.68	3.47	909.15		4.59	21.19	
14:12:10	14.61	2.45	1228.40		4.44	35.29	
14:12:20	14.62	1.98	1228.44		4.41	30.76	
14:12:30	14.65	1.64	1228.50		4.56	26.46	
14:12:40	14.73	1.75	1228.50		4.29	23.86	
14:12:50	14.83	1.57	1228.51		4.33	40.43	
14:13:00	14.90	1.68	1228.50		4.71	26.94	
14:13:10	14.97	1.45	1228.50		4.36	66.41	
14:13:20	15.06	1.50	1228.50		4.24	146.93	
14:13:30	15.13	1.42	1228.51		4.34	282.43	
14:13:40	15.21	1.31	1228.52		4.47	158.22	
14:13:50	15.30	1.56	1228.50		4.48	149.05	
14:14:00	15.37	1.43	1228.53		4.49	148.65	
14:14:10	15.41	1.94	1228.49		4.49	138.66	
14:14:20	15.39	2.19	873.31		4.45	118.76	
14:14:30	15.45	2.05	963.86		4.44	94.27	Tap 7 - 4
14:14:40	15.45	2.06	968.59		7.26	75.09	

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Device/Chanr	IPPGAS/104	IPPGAS/105	IPPGAS/106		IPPGAS/102	IPPGAS/103
Units:	%CO2	%O2	PPM_CO		%O2	PPM_CO
Group:						
Tag:	WestCO2	WestO2	WestCO		EastO2	EastCO
14:14:50	15.52	2.13	959.46		5.31	166.97
14:15:00	15.60	2.11	943.71		3.57	297.21
14:15:10	15.67	2.10	959.82		3.01	368.31
		1.77	1133.93	Tap 14 - 4	2.86	396.22
14:15:20	15.65	2.46	1032.28		2.81	409.61
14:15:30	15.30	6.40	800.33		2.80	407.69
					2.80	402.82

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:00:00	14.16	3.13	245.28	14.87	2.70	1228.45	Test 24
13:00:10	14.16	3.13	253.36	14.86	2.71	1228.47	
13:00:20	14.17	3.11	275.55	14.87	2.72	1228.46	
13:00:30	14.15	3.10	297.79	14.85	2.74	1228.48	
13:00:40	14.18	3.08	315.04	14.87	2.77	1228.44	
13:00:50	14.16	3.06	320.38	14.87	2.80	1228.45	
13:01:00	14.17	3.05	317.93	14.86	2.84	1228.47	
13:01:10	14.18	3.05	312.98	14.86	2.88	1200.21	
13:01:20	14.17	3.05	311.64	14.83	2.90	1122.82	
13:01:30	14.18	3.06	311.93	14.82	2.91	1049.07	
13:01:40	14.17	3.06	314.46	14.81	2.93	982.55	
13:01:50	14.16	3.04	328.33	14.79	2.93	930.72	
13:02:00	14.17	3.04	340.88	14.81	2.93	891.17	
13:02:10	14.18	3.04	340.31	14.79	2.94	861.58	
13:02:20	14.17	3.03	335.44	14.77	2.95	837.55	
13:02:30	14.17	3.02	348.56	14.79	2.95	809.32	
13:02:40	14.18	3.01	367.63	14.78	2.97	787.98	
13:02:50	14.18	3.00	375.30	14.78	2.99	774.92	
13:03:00	14.19	3.01	375.54	14.77	3.00	776.67	
13:03:10	14.18	2.98	378.63	14.77	2.99	787.29	
13:03:20	14.19	2.97	373.39	14.75	2.97	808.50	
13:03:30	14.20	2.96	355.90	14.76	2.93	841.69	
13:03:40	14.23	2.93	329.60	14.77	2.91	870.91	
13:03:50	14.20	2.93	295.07	14.75	2.88	905.11	
13:04:00	14.21	2.96	263.09	14.75	2.87	940.71	
13:04:10	14.23	3.02	234.74	14.74	2.85	962.55	
13:04:20	14.25	3.05	219.49	14.77	2.84	965.91	
13:04:30	14.26	3.07	216.05	14.76	2.83	958.66	
13:04:40	14.26	3.05	221.58	14.77	2.83	946.80	
13:04:50	14.26	3.00	285.63	14.78	2.85	923.73	
13:05:00	14.25	2.94	397.51	14.79	2.87	893.35	
13:05:10	14.25	2.88	498.24	14.79	2.88	873.44	
13:05:20	14.23	2.86	561.65	14.78	2.91	858.61	
13:05:30	14.26	2.85	580.42	14.82	2.93	842.40	
13:05:40	14.23	2.87	570.43	14.87	2.94	836.64	
13:05:50	14.26	2.93	531.29	14.87	2.95	837.07	
13:06:00	14.30	2.94	529.89	14.88	2.96	837.29	
13:06:10	14.30	2.96	530.18	14.88	2.98	836.88	
13:06:20	14.28	2.97	529.39	14.88	2.99	837.72	
13:06:30	14.30	2.99	528.08	14.88	3.01	836.75	
13:06:40	14.31	3.02	529.09	14.87	3.02	836.12	
13:06:50	14.30	3.05	528.13	14.90	2.97	832.09	
13:07:00	14.29	3.09	523.52	13.11	10.46	448.79	
13:07:10	14.49	2.95	508.36	10.02	17.49	85.46	
13:07:20	14.52	2.94	499.51	7.98	18.70	36.83	
13:07:30	14.56	2.92	490.65	6.61	19.25	20.33	
13:07:40	14.58	3.08	478.44	5.59	19.55	12.34	
13:07:50	14.56	4.26	457.44	4.97	19.70	11.07	
13:08:00	14.55	6.72	412.15	4.58	19.81	7.21	
13:08:10	14.36	11.78	270.20	4.54	9.60	117.08	
13:08:20	14.31	15.61	107.73	6.19	5.50	197.71	
13:08:30	14.16	16.67	51.92	7.95	4.17	134.83	
13:08:40	13.94	17.18	24.52	9.29	3.34	173.37	
13:08:50	13.61	13.40	22.28	10.33	3.70	184.79	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:09:00	13.23	8.19	42.56	11.07	3.71	218.54
13:09:10	12.74	5.52	54.20	11.54	3.85	93.97
13:09:20	11.84	4.04	104.84	12.06	3.78	43.59
13:09:30	11.38	3.61	100.14	12.62	3.60	37.48
13:09:40	11.24	3.57	82.55	12.77	3.50	76.50
13:09:50	11.29	3.40	84.78	12.86	3.66	183.10
13:10:00	11.47	3.21	117.45	12.95	3.54	123.14
13:10:10	11.67	3.17	98.53	13.04	3.83	70.46
13:10:20	11.88	3.01	90.45	13.15	3.89	59.29
13:10:30	12.11	2.97	135.05	13.19	3.99	80.05
13:10:40	12.33	3.02	163.22	13.24	3.74	92.46
13:10:50	12.53	2.96	194.83	13.34	3.41	277.84
13:11:00	12.68	2.71	432.11	13.44	3.25	437.24
13:11:10	12.85	2.80	491.52	13.52	3.50	368.08
13:11:20	12.96	3.10	243.33	13.60	3.72	272.82
13:11:30	13.13	3.08	137.69	13.67	3.56	196.92
13:11:40	13.26	2.96	147.95	13.74	3.17	260.31
13:11:50	13.31	4.92	221.53	13.83	3.28	280.58
13:12:00	13.33	7.29	139.37	13.90	3.54	181.91
13:12:10	13.16	4.26	107.91	13.93	3.83	94.17
13:12:20	13.05	3.50	93.01	13.95	7.58	64.80
13:12:30	13.09	3.40	66.13	13.87	4.26	570.93
13:12:40	13.19	2.74	106.57	13.75	3.95	497.18
13:12:50	13.30	2.63	123.74	13.75	3.59	463.27
13:13:00	13.47	2.71	105.53	13.76	3.59	350.71
13:13:10	13.58	2.79	61.98	13.80	3.61	227.45
13:13:20	13.70	2.73	150.75	13.90	3.06	184.73
13:13:30	13.78	2.76	180.57	13.97	2.99	191.74
13:13:40	13.80	2.66	139.00	14.05	3.42	143.84
13:13:50	13.91	2.77	84.47	14.09	3.59	215.58
13:14:00	13.88	11.25	35.80	14.15	3.63	165.73
13:14:10	13.58	7.58	140.94	14.12	3.42	158.29
13:14:20	13.12	4.38	131.88	14.21	3.18	153.73
13:14:30	12.97	3.57	146.69	14.18	7.70	136.26
13:14:40	12.99	3.08	296.72	14.03	4.70	211.31
13:14:50	13.10	2.72	409.90	13.92	3.92	323.72
13:15:00	13.23	2.67	441.27	13.85	3.09	760.06
13:15:10	13.38	2.89	245.42	13.89	3.30	529.02
13:15:20	13.53	2.68	211.41	13.98	3.40	458.25
13:15:30	13.65	2.36	528.25	14.01	3.62	476.44
13:15:40	13.74	2.73	340.74	14.05	3.82	210.07
13:15:50	13.84	3.15	205.43	14.11	3.58	119.47
13:16:00	13.93	2.77	251.88	14.10	3.63	95.51
13:16:10	13.92	6.06	321.34	14.13	3.78	109.21
13:16:20	13.83	7.01	247.73	14.14	3.84	69.88
13:16:30	13.57	3.99	256.22	14.15	4.11	86.84
13:16:40	13.43	3.17	164.30	14.12	8.54	49.98
13:16:50	13.44	2.79	182.13	13.97	5.64	172.67
13:17:00	13.52	2.55	626.90	13.80	3.96	461.33
13:17:10	13.59	2.64	675.19	13.71	3.43	1103.56
13:17:20	13.70	2.53	649.62	13.71	3.93	574.70
13:17:30	13.80	2.51	535.64	13.76	3.84	369.72
13:17:40	13.93	2.45	471.47	13.82	3.53	404.58
13:17:50	13.97	2.45	683.77	13.85	3.42	369.30

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:18:00	14.09	2.55	582.78	13.90	3.55	245.22
13:18:10	14.10	7.60	463.27	13.95	3.54	528.90
13:18:20	13.99	5.05	363.46	14.00	3.49	544.24
13:18:30	13.78	3.63	279.17	13.95	3.44	594.75
13:18:40	13.71	3.43	180.98	13.97	3.42	595.29
13:18:50	13.71	3.35	135.38	13.97	3.44	595.66
13:19:00	13.76	3.16	187.77	13.96	3.47	596.26
13:19:10	13.80	2.98	193.24	13.97	3.47	595.73
13:19:20	13.87	2.99	120.63	13.98	3.48	596.03
13:19:30	13.92	3.11	88.43	13.97	3.49	596.46
13:19:40	13.96	3.27	56.65	13.96	3.50	595.36
13:19:50	13.96	3.22	68.54	13.96	3.51	596.99
13:20:00	13.99	3.28	123.71	13.96	3.52	596.41
13:20:10	14.01	3.30	99.32	13.95	3.54	596.86
13:20:20	13.96	5.59	67.01	13.96	3.55	597.30
13:20:30	13.89	6.24	51.16	14.00	3.28	667.67
13:20:40	13.66	3.47	98.00	13.94	8.65	356.71
13:20:50	13.60	2.73	147.69	13.78	10.73	233.08
13:21:00	13.63	2.31	251.02	13.50	5.98	333.51
13:21:10	13.76	2.18	238.84	13.25	4.21	261.80
13:21:20	13.89	2.24	155.06	13.15	3.99	177.65
13:21:30	14.05	2.59	102.30	13.15	4.17	107.79
13:21:40	14.12	1.67	552.59	13.21	4.32	305.61
13:21:50	14.24	1.28	1218.09	13.26	4.13	386.54
13:22:00	14.34	1.28	753.64	13.30	4.08	210.24
13:22:10	14.47	1.46	463.23	13.38	4.19	115.88
13:22:20	14.57	4.57	451.84	13.43	4.12	93.74
13:22:30	14.54	4.91	589.49	13.49	3.74	157.15
13:22:40	14.30	2.98	602.95	13.57	2.94	451.96
13:22:50	14.22	2.40	364.27	13.57	7.84	398.28
13:23:00	14.24	2.03	492.36	13.58	6.92	250.54
13:23:10	14.33	1.82	487.64	13.46	4.65	160.10
13:23:20	14.42	1.76	559.56	13.36	3.60	246.61
13:23:30	14.52	1.66	612.15	13.38	3.20	215.10
13:23:40	14.61	2.10	444.19	13.45	2.96	226.95
13:23:50	14.68	1.94	407.74	13.57	2.81	192.02
13:24:00	14.72	1.69	537.06	13.71	2.66	383.41
13:24:10	14.79	1.71	582.85	13.81	2.75	595.35
13:24:20	14.75	1.94	542.28	13.95	2.88	448.00
13:24:30	14.83	3.12	402.94	13.98	2.88	677.09
13:24:40	14.67	11.70	176.65	14.11	2.70	887.42
13:24:50	14.27	6.62	211.47	14.22	2.46	1228.31
13:25:00	13.80	3.71	476.07	14.36	2.78	1195.45
13:25:10	13.63	2.97	461.64	14.34	6.69	1228.38
13:25:20	13.64	2.53	523.26	14.34	5.35	1228.39
13:25:30	13.74	2.06	1217.95	14.22	3.68	1190.96
13:25:40	13.84	2.20	1054.51	14.15	2.57	1228.41
13:25:50	13.95	2.26	700.15	14.15	2.72	1228.44
13:26:00	14.04	2.26	634.20	14.19	2.61	1228.44
13:26:10	14.11	2.24	670.66	14.26	2.31	1228.43
13:26:20	14.20	2.27	1016.22	14.36	2.52	1228.46
13:26:30	14.20	2.53	503.31	14.38	2.50	885.78
13:26:40	14.33	2.45	445.61	14.45	2.77	836.12
13:26:50	14.28	6.92	274.09	14.52	3.36	470.79

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:27:00	14.21	5.08	199.63	14.55	3.60	325.07
13:27:10	13.98	3.38	200.20	14.47	3.02	734.49
13:27:20	13.91	2.92	179.40	14.38	5.34	635.50
13:27:30	13.92	2.51	282.62	14.35	12.36	283.56
13:27:40	14.00	2.66	244.09	14.06	6.97	251.95
13:27:50	14.06	2.71	182.05	13.69	5.11	266.41
13:28:00	14.12	3.05	125.12	13.53	4.10	423.88
13:28:10	14.14	3.00	71.38	13.45	3.66	865.84
13:28:20	14.20	2.82	100.61	13.50	2.94	1180.78
13:28:30	14.20	2.66	289.89	13.58	3.34	1136.91
13:28:40	14.23	2.95	287.14	13.62	3.44	781.50
13:28:50	14.25	3.10	136.12	13.70	3.38	793.54
13:29:00	14.19	3.09	90.49	13.76	3.98	489.05
13:29:10	14.22	3.26	59.91	13.87	3.68	294.26
13:29:20	14.16	7.63	37.46	13.87	3.60	214.46
13:29:30	13.99	4.39	33.40	13.90	3.83	198.23
13:29:40	13.82	3.61	22.47	13.90	5.51	188.88
13:29:50	13.77	3.48	16.80	13.87	7.08	268.40
13:30:00	13.78	3.06	24.14	13.72	4.13	1072.65
13:30:10	13.83	3.08	28.26	13.58	3.56	904.61
13:30:20	13.87	2.89	52.32	13.62	3.25	1228.18
13:30:30	13.94	3.18	33.36	13.67	2.88	1228.36
13:30:40	13.99	3.33	21.83	13.78	2.59	1228.42
13:30:50	14.03	3.09	29.05	13.88	2.78	1228.44
13:31:00	14.05	2.91	29.14	13.97	3.15	1228.42
13:31:10	14.04	2.74	59.19	13.99	3.80	924.39
13:31:20	14.08	4.74	34.10	14.08	3.22	1228.33
13:31:30	13.96	8.34	117.57	14.10	2.95	1228.43
13:31:40	13.63	4.60	235.35	14.13	2.55	1228.46
13:31:50	13.41	3.36	467.34	14.20	3.36	1228.44
13:32:00	13.36	2.92	650.40	14.23	6.71	1228.39
13:32:10	13.45	2.67	675.14	14.16	3.22	1228.45
13:32:20	13.56	2.76	397.55	14.05	2.18	1228.46
13:32:30	13.66	2.73	584.20	14.09	2.32	1228.45
13:32:40	13.76	2.57	909.24	14.18	2.46	1228.49
13:32:50	13.83	2.54	761.60	14.28	2.16	1228.46
13:33:00	13.92	2.54	459.12	14.36	1.69	1228.48
13:33:10	14.00	2.54	390.79	14.46	2.05	1228.45
13:33:20	14.03	4.94	398.26	14.58	1.79	1228.44
13:33:30	13.96	7.98	243.89	14.69	2.05	1228.48
13:33:40	13.64	5.11	210.74	14.73	2.27	1228.46
13:33:50	13.41	4.20	346.84	14.77	5.07	1228.48
13:34:00	13.32	3.88	638.76	14.75	5.00	1228.46
13:34:10	13.32	4.01	350.96	14.56	3.60	805.69
13:34:20	13.34	3.66	504.17	14.46	3.15	495.66
13:34:30	13.35	3.70	634.72	14.47	3.17	413.75
13:34:40	13.40	3.97	337.85	14.46	2.67	847.20
13:34:50	13.42	3.99	195.72	14.49	2.69	829.09
13:35:00	13.44	3.90	103.96	14.56	2.23	1228.32
13:35:10	13.46	4.08	114.37	14.63	2.18	1228.40
13:35:20	13.45	3.96	333.00	14.70	2.03	1228.46
13:35:30	13.51	3.86	511.13	14.77	2.18	1228.44
13:35:40	13.30	6.10	261.16	14.82	2.13	1228.46
13:35:50	12.94	14.35	89.50	14.90	2.32	1157.70

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:36:00	12.30	16.59	39.81	14.91	2.28	1096.41
13:36:10	11.45	15.80	19.79	14.95	2.05	1228.43
13:36:20	10.70	8.37	19.90	15.00	1.92	1228.44
13:36:30	10.25	5.86	18.11	14.93	8.66	1228.47
13:36:40	10.22	5.15	13.07	14.78	5.93	859.04
13:36:50	10.41	4.77	9.61	14.49	4.31	612.66
13:37:00	10.68	4.38	12.48	14.35	3.89	530.05
13:37:10	10.96	4.62	16.93	14.27	3.68	713.06
13:37:20	11.20	4.53	8.86	14.25	3.40	731.89
13:37:30	11.41	4.52	8.72	14.18	3.56	634.74
13:37:40	11.60	4.62	5.86	14.21	3.46	654.60
13:37:50	11.77	4.38	7.25	14.26	3.68	376.96
13:38:00	11.93	4.19	7.39	14.28	3.82	375.93
13:38:10	12.07	4.18	7.81	14.29	3.98	332.99
13:38:20	12.23	4.59	5.61	14.28	3.63	280.05
13:38:30	12.25	7.83	3.84	14.24	3.97	213.79
13:38:40	12.15	5.34	5.62	14.19	3.77	216.87
13:38:50	12.15	4.15	31.18	14.20	3.94	295.93
13:39:00	12.21	4.36	21.66	14.15	8.56	280.95
13:39:10	12.33	4.45	23.52	13.99	4.82	615.90
13:39:20	12.43	4.36	18.67	13.84	3.67	1126.80
13:39:30	12.53	4.16	8.48	13.80	2.96	1228.35
13:39:40	12.61	4.30	6.16	13.83	2.38	1228.37
13:39:50	12.70	4.07	8.20	13.92	2.52	1228.42
13:40:00	12.76	3.97	10.96	14.03	2.56	1228.42
13:40:10	12.84	3.97	10.89	14.14	2.24	1228.45
13:40:20	12.90	4.14	7.22	14.26	1.93	1228.46
13:40:30	12.93	6.12	3.15	14.35	2.39	1228.44
13:40:40	12.83	8.97	49.13	14.43	2.12	1228.46
13:40:50	12.52	5.50	63.30	14.50	2.46	997.98
13:41:00	12.36	4.18	197.38	14.50	8.12	1089.70
13:41:10	12.40	3.79	231.90	14.43	5.18	828.89
13:41:20	12.51	3.46	517.43	14.32	3.32	1228.33
13:41:30	12.67	3.78	206.74	14.23	2.81	1177.38
13:41:40	12.80	3.91	90.60	14.19	2.96	907.69
13:41:50	12.88	3.72	78.17	14.23	2.72	1092.77
13:42:00	12.97	3.75	94.36	14.32	2.54	1228.42
13:42:10	13.07	3.64	248.02	14.35	2.64	773.09
13:42:20	13.10	3.86	230.83	14.42	3.03	478.15
13:42:30	13.19	3.83	394.30	14.49	2.53	732.45
13:42:40	13.14	8.50	241.22	14.52	2.68	950.40
13:42:50	13.02	6.88	118.69	14.53	2.95	798.34
13:43:00	12.77	5.68	49.26	14.55	4.16	1025.15
13:43:10	12.64	5.72	28.49	14.52	6.61	823.83
13:43:20	12.56	5.51	17.94	14.40	4.04	1140.31
13:43:30	12.52	5.45	21.79	14.23	3.48	924.93
13:43:40	12.48	5.14	20.97	14.14	3.15	610.09
13:43:50	12.49	5.13	23.48	14.18	3.24	483.54
13:44:00	12.47	5.03	16.27	14.23	3.02	557.63
13:44:10	12.49	5.01	21.29	14.24	2.83	682.17
13:44:20	12.51	5.24	18.53	14.37	2.62	1228.25
13:44:30	12.50	5.08	31.38	14.37	3.13	930.13
13:44:40	12.50	4.75	31.49	14.37	3.25	614.91
13:44:50	12.52	4.80	36.34	14.38	3.11	637.76

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:45:00	12.55	4.72	45.97	14.49	2.52	1227.94
13:45:10	12.55	4.84	41.15	14.52	2.44	1228.38
13:45:20	12.58	5.34	37.92	14.58	2.29	1228.40
13:45:30	12.50	10.41	18.60	14.62	2.51	1228.45
13:45:40	12.21	5.56	45.97	14.53	3.23	1061.73
13:45:50	12.03	4.17	51.99	14.37	10.54	414.25
13:46:00	12.13	3.82	35.49	13.87	15.21	209.65
13:46:10	12.26	3.49	48.83	13.37	16.57	132.75
13:46:20	12.43	3.57	58.37	12.81	14.22	132.54
13:46:30	12.63	3.95	34.41	12.27	6.87	570.39
13:46:40	12.75	3.82	16.24	11.84	4.80	565.43
13:46:50	12.83	3.80	10.57	11.63	3.83	582.46
13:47:00	12.90	3.84	11.25	11.63	3.64	502.97
13:47:10	12.98	3.90	7.93	11.80	3.72	563.96
13:47:20	13.05	3.89	4.10	11.96	3.76	497.02
13:47:30	13.08	3.70	7.94	12.19	4.06	275.70
13:47:40	13.17	3.97	14.58	12.37	3.84	199.10
13:47:50	13.08	10.05	7.23	12.51	3.82	239.33
13:48:00	12.80	5.99	14.34	12.63	3.74	360.44
13:48:10	12.58	4.45	11.22	12.80	4.02	379.30
13:48:20	12.56	4.12	7.32	12.89	8.42	330.19
13:48:30	12.66	3.71	14.62	12.90	5.23	302.04
13:48:40	12.74	4.07	14.23	12.84	3.93	534.54
13:48:50	12.85	4.00	9.71	12.89	3.12	761.51
13:49:00	12.93	4.07	11.36	13.00	3.24	571.69
13:49:10	13.00	4.05	38.29	13.11	2.73	986.57
13:49:20	13.05	4.03	18.71	13.19	2.85	644.40
13:49:30	13.10	3.89	13.08	13.41	2.93	475.28
13:49:40	13.14	3.96	10.77	13.56	2.94	351.40
13:49:50	13.18	4.18	5.25	13.72	2.90	445.78
13:50:00	13.14	7.02	3.84	13.85	2.97	435.29
13:50:10	13.02	9.70	17.34	13.87	2.81	628.53
13:50:20	12.66	5.61	59.17	13.98	3.11	497.02
13:50:30	12.43	4.06	175.11	14.07	5.72	308.68
13:50:40	12.42	3.60	252.75	14.08	8.27	193.24
13:50:50	12.54	3.63	173.19	13.93	5.38	292.21
13:51:00	12.70	3.64	102.83	13.72	4.42	237.47
13:51:10	12.81	3.54	148.39	13.64	4.22	197.50
13:51:20	12.94	3.48	122.65	13.63	3.89	176.97
13:51:30	13.05	3.54	195.78	13.64	3.69	192.50
13:51:40	13.15	3.64	103.64	13.67	3.90	158.49
13:51:50	13.19	3.61	82.23	13.71	3.95	97.55
13:52:00	13.28	3.69	135.99	13.77	3.59	203.67
13:52:10	13.30	3.33	425.43	13.80	3.90	179.04
13:52:20	13.31	6.27	258.12	13.86	3.54	304.04
13:52:30	13.23	7.45	132.17	13.87	3.59	222.99
13:52:40	12.96	5.17	78.78	13.91	3.82	136.15
13:52:50	12.83	4.20	59.51	13.92	6.46	399.98
13:53:00	12.82	3.95	61.86	13.89	8.58	379.73
13:53:10	12.92	3.78	43.70	13.74	4.76	1156.89
13:53:20	13.01	3.72	51.41	13.59	3.51	1228.30
13:53:30	13.06	3.87	50.92	13.52	2.80	1228.40
13:53:40	13.10	3.89	66.71	13.54	2.83	1228.41
13:53:50	13.14	3.71	87.72	13.64	2.74	1228.44

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:54:00	13.22	3.73	61.17	13.76	2.84	1148.75
13:54:10	13.27	3.71	82.71	13.83	2.87	1004.42
13:54:20	13.30	3.80	72.95	13.96	2.77	1206.76
13:54:30	13.35	3.77	42.08	14.02	2.68	1228.44
13:54:40	13.34	7.10	33.78	14.09	2.66	1228.41
13:54:50	13.18	10.28	14.86	14.19	2.74	1141.66
13:55:00	12.73	6.07	9.64	14.20	2.87	944.17
13:55:10	12.46	4.94	6.37	14.24	4.14	917.18
13:55:20	12.41	4.52	3.12	14.26	7.43	579.98
13:55:30	12.47	4.45	0.89	14.15	4.93	469.56
13:55:40	12.53	4.57	1.31	14.00	4.26	346.37
13:55:50	12.60	4.61	1.73	13.93	4.26	235.38
13:56:00	12.65	4.52	0.33	13.89	4.10	197.48
13:56:10	12.69	4.62	-0.58	13.87	4.16	216.93
13:56:20	12.72	4.72	-0.09	13.88	4.21	174.13
13:56:30	12.72	4.74	-0.62	13.89	4.16	176.85
13:56:40	12.77	4.62	-0.37	13.86	3.93	207.80
13:56:50	12.70	9.80	-1.73	13.89	3.73	253.67
13:57:00	12.51	6.60	-2.33	13.86	3.52	528.81
13:57:10	12.29	5.32	-2.22	13.90	4.36	369.69
13:57:20	12.24	4.69	-2.14	13.91	7.06	296.94
13:57:30	12.31	4.55	-1.94	13.81	4.48	395.77
13:57:40	12.37	4.44	-1.46	13.73	3.31	257.60
13:57:50	12.46	4.51	-2.57	13.71	2.58	247.81
13:58:00	12.53	4.54	0.91	13.83	2.89	151.08
13:58:10	12.61	4.23	4.70	13.91	2.96	224.52
13:58:20	12.67	4.52	1.59	14.04	1.85	1177.32
13:58:30	12.69	4.63	-0.61	14.14	1.23	1228.33
13:58:40	12.75	4.63	2.05	14.28	1.38	1228.39
13:58:50	12.71	9.47	-0.44	14.44	1.75	1228.42
13:59:00	12.57	6.90	0.61	14.58	1.93	1191.57
13:59:10	12.34	5.04	-1.46	14.65	1.95	1003.53
13:59:20	12.29	4.28	-0.09	14.71	2.77	494.45
13:59:30	12.34	4.18	0.08	14.78	3.13	364.59
13:59:40	12.45	4.16	0.47	14.80	2.66	509.03
13:59:50	12.58	3.97	6.76	14.80	2.34	629.52
14:00:00	12.67	4.06	6.33	14.86	1.96	976.89
14:00:10	12.76	4.09	11.62	14.95	1.87	1170.25
14:00:20	12.84	4.30	2.81	14.88	6.32	752.52
14:00:30	12.89	4.60	-0.16	14.86	9.15	972.25
14:00:40	12.91	4.59	-1.41	14.68	3.87	1228.40
14:00:50	12.92	4.16	1.18	14.46	2.11	1228.43
14:01:00	12.96	4.17	0.70	14.36	1.64	1228.46
14:01:10	12.99	4.29	-0.67	14.41	1.55	1228.46
14:01:20	13.02	4.16	1.59	14.49	2.11	1228.46
14:01:30	13.07	4.14	0.01	14.59	2.05	1228.49
14:01:40	13.09	4.26	1.90	14.68	1.99	1228.49
14:01:50	13.12	4.33	2.01	14.75	2.15	1142.78
14:02:00	13.15	4.09	30.22	14.84	2.16	1228.40
14:02:10	13.16	4.13	36.72	14.89	2.35	1228.48
14:02:20	13.16	5.85	13.27	14.92	2.07	1228.50
14:02:30	13.07	8.13	9.23	14.97	1.89	1228.50
14:02:40	12.80	5.24	5.31	15.01	1.59	1228.52
14:02:50	12.66	4.54	2.42	15.01	6.25	1228.49

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:03:00	12.65	4.47	0.29	14.98	5.78	1228.51
14:03:10	12.70	4.21	1.47	14.81	3.28	1228.51
14:03:20	12.76	4.59	0.15	14.65	2.36	1228.51
14:03:30	12.82	4.28	22.93	14.62	2.10	1228.52
14:03:40	12.86	4.42	15.14	14.67	1.78	1228.50
14:03:50	12.90	4.29	11.42	14.74	1.79	1228.52
14:04:00	12.93	4.10	5.71	14.81	1.74	1228.49
14:04:10	12.97	3.87	2.19	14.89	1.53	1228.54
14:04:20	13.04	4.43	1.11	14.98	1.36	1228.50
14:04:30	12.98	9.48	-0.81	15.06	1.14	1228.53
14:04:40	12.73	5.94	-1.20	15.16	1.20	1228.51
14:04:50	12.53	5.28	-1.98	15.26	1.51	1228.50
14:05:00	12.49	5.11	-2.44	15.26	7.54	1228.50
14:05:10	12.49	5.05	-2.43	15.21	5.89	1180.59
14:05:20	12.51	4.78	-2.26	14.95	3.71	998.96
14:05:30	12.54	4.71	-0.99	14.76	3.18	810.61
14:05:40	12.59	4.90	-1.37	14.62	3.41	620.38
14:05:50	12.62	4.79	2.84	14.68	3.43	441.18
14:06:00	12.67	4.17	24.69	14.64	3.29	304.95
14:06:10	12.72	3.96	7.99	14.64	3.28	254.51
14:06:20	12.79	4.36	2.12	14.63	3.29	219.88
14:06:30	12.85	4.82	-0.70	14.63	3.21	277.08
14:06:40	12.78	9.70	-2.03	14.64	3.07	425.45
14:06:50	12.59	8.52	-2.25	14.58	2.97	578.31
14:07:00	12.22	5.00	139.68	14.57	3.16	481.15
14:07:10	12.11	4.30	118.80	14.55	8.82	286.41
14:07:20	12.24	3.88	44.33	14.47	6.19	201.71
14:07:30	12.39	3.99	23.80	14.27	4.61	168.41
14:07:40	12.54	3.96	11.78	14.13	3.73	212.73
14:07:50	12.65	4.12	4.93	14.08	3.17	184.37
14:08:00	12.76	3.79	4.87	14.07	3.05	173.40
14:08:10	12.90	3.40	19.01	14.11	3.27	209.02
14:08:20	13.01	3.91	38.89	14.13	3.53	223.68
14:08:30	13.07	3.73	50.03	14.19	3.79	137.57
14:08:40	13.18	4.31	25.01	14.21	3.40	136.90
14:08:50	13.12	9.45	9.27	14.25	2.84	232.83
14:09:00	12.94	7.41	21.78	14.25	2.77	307.45
14:09:10	12.62	5.09	10.72	14.32	2.97	398.13
14:09:20	12.52	4.52	4.44	14.34	6.89	595.75
14:09:30	12.56	4.36	6.85	14.28	4.17	1035.58
14:09:40	12.62	4.34	3.02	14.19	3.45	900.64
14:09:50	12.72	4.08	7.13	14.14	2.71	1023.12
14:10:00	12.81	3.83	16.85	14.18	2.93	1067.60
14:10:10	12.55	3.75	14.10	14.22	3.13	772.68
14:10:20	12.90	3.57	76.07	14.26	2.85	701.23
14:10:30	13.08	3.59	61.32	14.35	2.36	1071.24
14:10:40	13.20	3.54	51.94	14.43	2.28	1228.42
14:10:50	13.28	3.38	88.96	14.54	2.62	1163.34
14:11:00	13.34	3.60	61.38	14.54	2.67	1087.68
14:11:10	13.44	4.11	51.47	14.62	2.42	1228.46
14:11:20	13.43	8.58	20.43	14.66	2.46	1228.49
14:11:30	13.23	6.51	24.47	14.62	2.56	867.58
14:11:40	12.97	5.14	27.26	14.72	2.53	1022.25
14:11:50	12.87	4.59	21.19	14.73	6.30	1037.05

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:12:00	12.86	4.44	35.29	14.68	3.47	909.15
14:12:10	12.91	4.41	30.76	14.61	2.45	1228.40
14:12:20	12.94	4.56	26.46	14.62	1.98	1228.44
14:12:30	12.95	4.29	23.86	14.65	1.64	1228.50
14:12:40	13.00	4.33	40.43	14.73	1.75	1228.50
14:12:50	13.04	4.71	26.94	14.83	1.57	1228.51
14:13:00	13.01	4.36	66.41	14.90	1.68	1228.50
14:13:10	13.03	4.24	146.93	14.97	1.45	1228.50
14:13:20	13.03	4.34	282.43	15.06	1.50	1228.50
14:13:30	13.00	4.47	158.22	15.13	1.42	1228.51
14:13:40	13.06	4.48	149.05	15.21	1.31	1228.52
14:13:50	13.06	4.49	148.65	15.30	1.56	1228.50
14:14:00	13.14	4.49	138.66	15.37	1.43	1228.53
14:14:10	13.32	4.45	118.76	15.41	1.94	1228.49
14:14:20	13.23	7.26	75.09	15.39	2.19	873.31
14:14:30	13.18	5.31	166.97	15.45	2.05	963.86
14:14:40	13.04	3.57	297.21	15.45	2.06	968.59
14:14:50	13.00	3.01	368.31	15.52	2.13	959.46
14:15:00	13.02	2.86	396.22	15.60	2.11	943.71
14:15:10	13.15	2.81	409.61	15.67	2.10	959.82
14:15:20	13.26	2.80	407.69	15.65	2.46	1032.28
14:15:30	13.38	2.80	402.82	15.30	6.40	800.33
14:15:40	13.47	2.82	395.48	15.14	6.60	636.25
14:15:50	13.59	2.82	387.70	14.93	5.98	563.63
14:16:00	13.67	2.83	393.20	14.67	5.54	543.72
14:16:10	13.75	2.84	397.10	14.44	5.13	557.93
14:16:20	13.82	2.86	387.59	14.29	4.79	588.65
14:16:30	13.89	2.88	367.35	14.13	4.49	621.19
14:16:40	13.94	2.90	343.33	14.01	4.24	650.65
14:16:50	13.98	2.93	316.66	13.98	4.03	667.61
14:17:00	14.01	2.95	301.96	13.96	3.84	673.02
14:17:10	14.08	2.95	298.69	13.99	3.68	676.90
14:17:20	14.10	2.96	305.17	14.00	3.56	684.96
14:17:30	14.12	2.96	314.72	14.02	3.46	699.91
14:17:40	14.15	2.97	318.90	14.07	3.38	721.55
14:17:50	14.18	2.96	316.72	14.11	3.31	741.86
14:18:00	14.18	2.95	309.85	14.14	3.27	744.40
14:18:10	14.21	2.93	305.30	14.19	3.24	727.43
14:18:20	14.23	2.88	311.77	14.22	3.21	700.78
14:18:30	14.25	2.83	340.75	14.23	3.19	673.90
14:18:40	14.28	2.77	382.52	14.25	3.16	653.10
14:18:50	14.31	2.74	428.61	14.29	3.14	637.79
14:19:00	14.33	2.71	470.36	14.34	3.12	624.63
14:19:10	14.33	2.69	493.65	14.37	3.11	619.49
14:19:20	14.36	2.70	493.92	14.40	3.10	618.04
14:19:30	14.38	2.71	477.60	14.44	3.08	623.45
14:19:40	14.41	2.72	451.53	14.43	3.08	632.51
14:19:50	14.42	2.72	421.58	14.46	3.05	638.83
14:20:00	14.44	2.73	392.71	14.49	3.03	639.21
14:20:10	14.46	2.74	376.76	14.52	3.03	629.03
14:20:20	14.49	2.74	375.36	14.52	3.01	631.17
14:20:30	14.49	2.73	378.03	14.55	3.02	635.60
14:20:40	14.50	2.72	381.41	14.57	3.02	634.70
14:20:50	14.49	2.70	384.82	14.59	3.03	629.23

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:21:00	14.51	2.69	393.62	14.60	3.04	624.55
14:21:10	14.51	2.67	402.34	14.64	3.05	621.40
14:21:20	14.52	2.64	416.11	14.65	3.08	611.18
14:21:30	14.52	2.61	422.23	14.68	3.08	605.04
14:21:40	14.55	2.61	409.94	14.71	3.09	598.72
14:21:50	14.57	2.61	392.57	14.71	3.11	595.18
14:22:00	14.58	2.61	369.59	14.71	3.13	593.55
14:22:10	14.56	2.62	343.26	14.73	3.13	592.56
14:22:20	14.58	2.63	320.92	14.72	3.13	591.86
14:22:30	14.60	2.64	305.26	14.73	3.13	589.08
14:22:40	14.59	2.64	304.41	14.74	3.12	578.14
14:22:50	14.61	2.65	320.91	14.74	3.09	575.88
14:23:00	14.60	2.67	336.01	14.74	3.08	578.45
14:23:10	14.58	2.71	338.75	14.74	3.05	583.85
14:23:20	14.58	2.74	339.90	14.74	3.04	587.84
14:23:30	14.59	2.77	338.97	14.74	3.04	587.77
14:23:40	14.57	2.78	337.39	14.75	3.05	587.87
14:23:50	14.58	2.78	333.32	14.74	3.07	591.84
14:24:00	14.58	2.77	330.09	14.74	3.09	597.08
14:24:10	14.58	2.77	322.80	14.73	3.10	607.49
14:24:20	14.57	2.76	309.97	14.73	3.11	617.03
14:24:30	14.57	2.76	297.27	14.70	3.12	627.48
14:24:40	14.57	2.76	287.22	14.69	3.13	632.17
14:24:50	14.56	2.76	284.80	14.69	3.14	632.03
14:25:00	14.56	2.74	296.81	14.65	3.15	638.03
14:25:10	14.56	2.76	305.44	14.67	3.13	662.87
14:25:20	14.56	2.78	312.82	14.70	3.11	693.84
14:25:30	14.57	2.82	317.23	14.73	3.10	720.02
14:25:40	14.56	2.86	317.86	14.72	3.09	738.62
14:25:50	14.55	2.90	321.61	14.72	3.07	749.35
14:26:00	14.55	2.92	330.94	14.73	3.07	753.14
14:26:10	14.53	2.93	339.14	14.73	3.06	756.63
14:26:20	14.52	2.93	344.24	14.73	3.06	756.65
14:26:30	14.51	2.93	354.82	14.73	3.06	754.41
14:26:40	14.49	2.92	376.03	14.73	3.06	753.85
14:26:50	14.48	2.91	397.10	14.73	3.04	759.11
14:27:00	14.48	2.92	410.98	14.75	3.03	774.97
14:27:10	14.47	2.93	405.65	14.73	3.00	803.05
14:27:20	14.46	2.94	384.87	14.73	2.97	838.09
14:27:30	14.44	2.95	355.69	14.75	2.95	859.44
14:27:40	14.44	2.95	325.88	14.76	2.94	869.62
14:27:50	14.43	2.95	303.16	14.76	2.93	877.35
14:28:00	14.44	2.96	283.66	14.78	2.91	890.13
14:28:10	14.43	2.98	260.44	14.78	2.90	897.41
14:28:20	14.42	2.98	246.49	14.78	2.87	906.07
14:28:30	14.41	2.98	248.62	14.81	2.86	910.08
14:28:40	14.42	2.98	254.85	14.81	2.86	899.70
14:28:50	14.43	2.99	254.10	14.82	2.86	889.59
14:29:00	14.38	2.99	258.22	14.82	2.86	880.18
14:29:10	14.38	2.98	265.04	14.82	2.86	863.20
14:29:20	14.38	2.95	278 07	14.84	2.86	839.86
14:29:30	14.38	2.92	286.50	14.83	2.86	812.99
14:29:40	14.38	2.90	290.07	14.85	2.86	771.33
14:29:50	14.39	2.89	289.28	14.86	2.86	732.62

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:30:00	14.39	2.87	300.64	14.83	2.88	686.26
14:30:10	14.39	2.84	354.99	14.81	2.89	656.23
14:30:20	14.40	2.81	421.51	14.83	2.90	636.55
14:30:30	14.43	2.82	452.28	14.84	2.91	623 03
14:30:40	14.44	2.85	443.30	14.86	2.92	614.43
14:30:50	14.43	2.89	410.45	14.85	2.93	617.17
14:31:00	14.45	2.93	366.14	14.81	2.94	631.48
14:31:10	14.44	2.97	316.94	14.81	2.94	655.99
14:31:20	14.42	3.00	273.33	14.83	2.95	681.72
14:31:30	14.41	3.04	234.82	14.87	2.94	704.49
14:31:40	14.41	3.06	198.58	14.86	2.95	730.75
14:31:50	14.40	3.08	168.60	14.86	2.95	754.46
14:32:00	14.39	3.09	145.91	14.85	2.95	782.51
14:32:10	14.38	3.09	135.24	14.84	2.94	821.76
14:32:20	14.36	3.05	143.41	14.83	2.94	862.03
14:32:30	14.35	3.01	181.64	14.82	2.93	894.54
14:32:40	14.35	2.97	237.89	14.83	2.93	908.46
14:32:50	14.36	2.96	275.66	14.82	2.92	905.30
14:33:00	14.46	2.96	285.42	14.83	2.91	905.57
14:33:10	14.46	2.97	285.21	14.83	2.90	897.69
14:33:20	14.47	3.00	276.13	14.85	2.89	895.71
14:33:30	14.46	3.03	267.04	14.96	2.87	901.36
14:33:40	14.45	3.07	254.80	15.01	2.85	924.01
14:33:50	14.43	3.11	237.69	15.01	2.83	954.17
14:34:00	14.42	3.13	220.48	14.99	2.83	975.42
14:34:10	14.40	3.15	204.12	15.00	2.84	982.95
14:34:20	14.39	3.15	188.95	14.99	2.84	981.70
14:34:30	14.38	3.16	174.98	14.98	2.84	976.78
14:34:40	14.36	3.18	158.77	14.96	2.83	966.72
14:34:50	14.35	3.19	144.11	14.96	2.82	948.45
14:35:00	14.35	3.15	140.18	14.96	2.82	914.48
14:35:10	14.33	3.11	143.14	14.95	2.84	867.63
14:35:20	14.33	3.08	146.16	14.93	2.85	819.25
14:35:30	14.32	3.06	148.53	14.93	2.87	783.56
14:35:40	14.31	3.05	147.72	14.92	2.88	764.71
14:35:50	14.32	3.04	146.08	14.93	2.89	761.10
14:36:00	14.32	3.04	142.06	14.93	2.90	773.22
14:36:10	14.32	3.02	141.24	14.93	2.89	791.29
14:36:20	14.32	3.02	142.88	14.91	2.90	815.01
14:36:30	14.31	3.02	143.37	14.89	2.90	849.25
14:36:40	14.33	3.01	142.38	14.91	2.89	883.50
14:36:50	14.34	3.01	140.06	14.91	2.89	910.01
14:37:00	14.33	3.00	135.68	14.88	2.89	933.45
14:37:10	14.35	2.99	130.90	14.88	2.89	953.02
14:37:20	14.35	2.98	122.93	14.87	2.89	976.64
14:37:30	14.34	2.98	115.92	14.87	2.89	999.03
14:37:40	14.34	2.99	110.50	14.88	2.87	1035.90
14:37:50	14.35	2.99	115.00	14.87	2.86	1074.24
14:38:00	14.34	3.00	126.20	14.87	2.85	1111.28
14:38:10	14.33	3.00	139.03	14.90	2.86	1145.29
14:38:20	14.34	3.01	144.69	14.93	2.84	1187.93
14:38:30	14.33	3.02	140.06	14.88	2.82	1228.45
14:38:40	14.34	3.03	135.37	14.91	2.80	1228.47
14:38:50	14.35	3.04	130.71	14.91	2.79	1228.46

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:39:00	14.35	3.04	125.72	14.91	2.78	1228.49
14:39:10	14.34	3.03	133.14	14.92	2.79	1228.46
14:39:20	14.34	2.99	159.53	14.90	2.81	1228.48
14:39:30	14.34	2.95	188.24	14.90	2.83	1228.46
14:39:40	14.34	2.94	201.70	14.91	2.84	1227.97
14:39:50	14.35	2.94	207.88	14.91	2.83	1197.90
14:40:00	14.33	2.94	214.81	14.92	2.83	1158.77
14:40:10	14.33	2.92	231.53	14.88	2.83	1111.99
14:40:20	14.35	2.89	253.03	14.88	2.85	1049.15
14:40:30	14.37	2.86	268.14	14.86	2.87	975.65
14:40:40	14.36	2.85	264.43	14.86	2.89	900.34
14:40:50	14.36	2.86	248.69	14.85	2.90	839.16
14:41:00	14.38	2.87	237.76	14.86	2.92	795.14
14:41:10	14.39	2.87	231.92	14.85	2.93	765.72
14:41:20	14.39	2.86	233.65	14.85	2.95	743.97
14:41:30	14.39	2.84	253.89	14.87	2.97	724.14
14:41:40	14.42	2.84	274.77	14.84	2.99	705.91
14:41:50	14.42	2.83	281.25	14.85	3.00	695.38
14:42:00	14.42	2.83	276.44	14.80	3.01	685.47
14:42:10	14.41	2.86	259.28	14.81	3.02	683.91
14:42:20	14.41	2.91	234.53	14.81	3.01	694.82
14:42:30	14.42	2.96	213.25	14.83	3.01	715.80
14:42:40	14.44	3.00	193.52	14.81	3.01	756.95
14:42:50	14.43	3.03	173.08	14.81	3.00	809.79
14:43:00	14.41	3.06	151.58	14.82	2.99	866.26
14:43:10	14.41	3.07	136.04	14.83	2.99	916.44
14:43:20	14.43	3.07	124.24	14.78	2.96	961.20
14:43:30	14.41	3.04	114.21	14.81	2.95	999.39
14:43:40	14.42	3.01	111.25	14.81	2.94	1022.76
14:43:50	14.40	2.97	113.87	14.81	2.93	1031.29
14:44:00	14.39	2.93	125.44	14.79	2.91	1023.10
14:44:10	14.38	2.89	150.92	14.79	2.89	1006.66
14:44:20	14.39	2.85	184.00	14.79	2.87	978.56
14:44:30	14.39	2.81	222.60	14.80	2.85	947.07
14:44:40	14.38	2.76	254.43	14.79	2.87	910.95
14:44:50	14.40	2.75	266.27	14.79	2.88	898.22
14:45:00	14.41	2.75	260.18	14.78	2.88	913.88
14:45:10	14.43	2.78	243.37	14.81	2.88	948.42
14:45:20	14.45	2.82	223.94	14.81	2.86	988.38
14:45:30	14.44	2.86	204.19	14.82	2.84	1024.89
14:45:40	14.45	2.92	183.26	14.84	2.83	1059.91
14:45:50	14.45	2.97	160.08	14.82	2.81	1084.05
14:46:00	14.44	3.01	142.72	14.83	2.81	1097.64
14:46:10	14.45	3.04	132.24	14.84	2.82	1107.33
14:46:20	14.45	3.06	125.30	14.83	2.82	1120.01
14:46:30	14.44	3.07	120.45	14.88	2.81	1138.30
14:46:40	14.43	3.08	116.06	14.90	2.80	1160.94
14:46:50	14.42	3.09	118.86	14.89	2.79	1185.42
14:47:00	14.41	3.08	127.65	14.91	2.79	1201.06
14:47:10	14.36	3.08	134.67	14.90	2.76	1202.86
14:47:20	14.16	3.08	144.85	14.90	2.74	1196.12
14:47:30	13.99	3.08	157.83	14.90	2.73	1187.79
14:47:40	13.92	3.08	166.28	14.91	2.74	1184.78
14:47:50	13.84	3.08	163.49	14.92	2.73	1187.38

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:48:00	13.86	3.09	155.63	14.93	2.73	1190.71
14:48:10	14.18	3.10	154.36	14.92	2.74	1188.29
14:48:20	14.29	3.12	156.98	14.95	2.76	1176.49
14:48:30	14.30	3.12	156.24	14.92	2.78	1160.70
14:48:40	14.32	3.11	153.88	14.91	2.80	1148.69
14:48:50	14.30	3.08	160.55	14.94	2.82	1143.98
14:49:00	14.31	3.02	187.36	14.93	2.84	1139.03
14:49:10	14.30	3.00	215.99	14.92	2.85	1138.89
14:49:20	14.29	2.98	235.24	14.92	2.84	1146.77
14:49:30	14.30	3.00	250.64	14.95	2.84	1157.74
14:49:40	14.29	2.99	260.91	14.93	2.84	1172.72
14:49:50	14.30	2.98	262.35	14.93	2.83	1190.36
14:50:00	14.31	2.98	258.97	14.90	2.81	1211.84
14:50:10	14.31	2.96	270.23	14.92	2.81	1226.70
14:50:20	14.31	2.92	295.67	14.90	2.81	1228.36
14:50:30	14.32	2.90	312.03	14.91	2.81	1220.17
14:50:40	14.32	2.89	313.74	14.90	2.81	1212.28
14:50:50	14.33	2.89	304.43	14.89	2.82	1209.14
14:51:00	14.34	2.90	290.52	14.91	2.82	1199.55
14:51:10	14.34	2.92	282.17	14.91	2.83	1188.48
14:51:20	14.34	2.92	271.88	14.90	2.83	1174.96
14:51:30	14.35	2.94	255.23	14.90	2.81	1160.51
14:51:40	14.33	2.95	237.01	14.90	2.79	1143.61
14:51:50	14.35	2.98	221.10	14.88	2.78	1128.05
14:52:00	14.35	3.00	204.79	14.87	2.79	1107.42
14:52:10	14.37	3.03	189.77	14.88	2.81	1077.96
14:52:20	14.36	3.04	177.75	14.87	2.83	1040.92
14:52:30	14.36	3.05	169.18	14.87	2.84	1005.43
14:52:40	14.35	3.05	161.79	14.87	2.86	976.69
14:52:50	14.34	3.06	153.58	14.87	2.88	959.43
14:53:00	14.33	3.07	144.32	14.86	2.90	955.86
14:53:10	14.33	3.08	137.24	14.85	2.92	955.80
14:53:20	14.32	3.06	129.65	14.86	2.94	958.56
14:53:30	14.33	3.04	120.71	14.84	2.93	967.80
14:53:40	14.33	3.02	112.80	14.85	2.93	984.44
14:53:50	14.33	3.00	114.69	14.85	2.90	996.32
14:54:00	14.33	2.98	133.51	14.83	2.89	996.70
14:54:10	14.33	2.96	159.32	14.83	2.87	986.00
14:54:20	14.33	2.95	185.62	14.82	2.88	969.76
14:54:30	14.33	2.97	203.68	14.81	2.88	955.58
14:54:40	14.32	2.98	223.32	14.84	2.88	944.81
14:54:50	14.34	2.99	264.27	14.83	2.87	943.57
14:55:00	14.32	2.99	315.26	14.84	2.86	947.12
14:55:10	14.33	3.00	344.89	14.81	2.86	955.84
14:55:20	14.31	3.03	344.75	14.83	2.85	968.24
14:55:30	14.31	3.05	329.98	14.83	2.85	972.19
14:55:40	14.32	3.07	307.44	14.83	2.86	962.10
14:55:50	14.31	3.09	284.58	14.84	2.86	942.35
14:56:00	14.31	3.09	265.84	14.84	2.87	924.24
14:56:10	14.29	3.10	263.82	14.84	2.88	904.94
14:56:20	14.28	3.09	266.78	14.84	2.89	882.99
14:56:30	14.28	3.11	256.72	14.85	2.91	859.29
14:56:40	14.27	3.13	239.04	14.84	2.93	836.86
14:56:50	14.27	3.15	223.57	14.84	2.93	818.15

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:57:00	14.26	3.17	212.61	14.84	2.94	807.85
14:57:10	14.28	3.18	201.93	14.83	2.94	809.10
14:57:20	14.27	3.21	191.35	14.82	2.95	817.46
14:57:30	14.25	3.22	182.39	14.81	2.96	822.88
14:57:40	14.25	3.25	175.73	14.81	2.97	821.96
14:57:50	14.23	3.28	164.59	14.82	2.98	822.97
14:58:00	14.23	3.29	151.71	14.79	2.99	825.05
14:58:10	14.21	3.31	141.56	14.81	3.00	826.13
14:58:20	14.19	3.30	138.75	14.80	3.01	820.28
14:58:30	14.18	3.28	140.21	14.80	3.01	815.94
14:58:40	14.18	3.26	141.80	14.79	3.02	829.87
14:58:50	14.15	3.24	145.81	14.79	3.01	857.51
14:59:00	14.15	3.21	158.17	14.77	3.00	893.01
14:59:10	14.16	3.20	170.56	14.77	2.99	938.24
14:59:20	14.15	3.20	178.18	14.77	2.97	975.96
14:59:30	14.15	3.21	181.70	14.76	2.95	998.22
14:59:40	14.14	3.22	182.88	14.77	2.95	1003.63
14:59:50	14.16	3.22	184.40	14.76	2.96	1002.14
15:00:00	14.14	3.23	185.91	14.78	2.97	998.28
15:00:10	14.15	3.25	186.76	14.76	2.99	992.04
15:00:20	14.14	3.28	183.65	14.76	3.01	984.07
15:00:30	14.13	3.30	176.70	14.76	3.02	982.75
15:00:40	14.12	3.30	176.71	14.74	3.02	979.83
15:00:50	14.12	3.28	191.24	14.74	3.04	965.68
15:01:00	14.11	3.22	227.13	14.73	3.06	931.80
15:01:10	14.11	3.18	265.13	14.74	3.08	893.70
15:01:20	14.10	3.16	281.94	14.72	3.09	864.82
15:01:30	14.12	3.16	285.59	14.71	3.09	847.06
15:01:40	14.13	3.15	283.56	14.72	3.08	842.61
15:01:50	14.12	3.15	271.20	14.72	3.07	843.04
15:02:00	14.13	3.17	255.73	14.70	3.06	841.22
15:02:10	14.13	3.19	242.88	14.69	3.06	836.32
15:02:20	14.12	3.17	234.97	14.71	3.07	829.24
15:02:30	14.14	3.15	235.38	14.71	3.08	823.29
15:02:40	14.15	3.11	245.82	14.71	3.09	820.23
15:02:50	14.15	3.07	260.05	14.69	3.09	821.98
15:03:00	14.15	3.04	270.11	14.70	3.09	822.71
15:03:10	14.16	3.01	283.98	14.69	3.08	814.74
15:03:20	14.19	2.99	306.09	14.69	3.08	800.37
15:03:30	14.20	2.96	326.44	14.70	3.08	795.97
15:03:40	14.20	2.95	337.87	14.69	3.09	806.07
15:03:50	14.22	2.95	342.90	14.69	3.10	823.25
15:04:00	14.22	2.96	333.75	14.67	3.10	846.14
15:04:10	14.25	2.99	316.04	14.69	3.06	874.01
15:04:20	14.25	3.03	296.32	14.69	3.04	894.19
15:04:30	14.25	3.06	275.61	14.70	3.01	903.61
15:04:40	14.24	3.10	252.10	14.67	3.00	900.18
15:04:50	14.24	3.16	231.88	14.68	2.99	893.41
15:05:00	14.26	3.19	214.36	14.69	2.99	892.35
15:05:10	14.24	3.21	201.65	14.69	2.99	899.24
15:05:20	14.25	3.23	194.53	14.70	3.00	904.78
15:05:30	14.25	3.24	190.51	14.71	3.00	898.85
15:05:40	14.23	3.25	184.83	14.72	3.01	889.58
15:05:50	14.23	3.26	181.16	14.72	3.02	879.81

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
15:06:00	14.23	3.25	183.06	14.72	3.03	869.61
15:06:10	14.21	3.23	183.05	14.73	3.04	860.14
15:06:20	14.21	3.23	177.01	14.72	3.04	862.85
15:06:30	14.21	3.21	176.78	14.74	3.02	884.36
15:06:40	14.19	3.19	181.85	14.72	3.01	908.03
15:06:50	14.19	3.17	185.55	14.72	3.02	921.51
15:07:00	14.22	3.14	185.18	14.73	3.02	918.03
15:07:10	14.21	3.14	179.61	14.74	3.04	903.09
15:07:20	14.22	3.15	173.49	14.73	3.04	884.28
15:07:30	14.22	3.17	165.77	14.73	3.05	874.48
15:07:40	14.22	3.17	156.71	14.73	3.04	873.06
15:07:50	14.20	3.17	148.63	14.71	3.04	877.47
15:08:00	14.19	3.17	143.31	14.73	3.04	884.13
15:08:10	14.20	3.16	143.89	14.74	3.05	885.85
15:08:20	14.21	3.15	151.17	14.73	3.05	883.04
15:08:30	14.22	3.15	165.10	14.73	3.05	878.58
15:08:40	14.21	3.13	182.71	14.71	3.03	866.81
15:08:50	14.19	3.11	212.31	14.72	3.03	842.90
15:09:00	14.21	3.10	239.93	14.69	3.05	813.14
15:09:10	14.21	3.12	253.59	14.71	3.06	788.37
15:09:20	14.21	3.14	254.78	14.71	3.07	772.70
15:09:30	14.19	3.16	246.25	14.71	3.08	769.63
15:09:40	14.19	3.20	229.16	14.72	3.07	777.71
15:09:50	14.22	3.22	212.35	14.71	3.05	791.89
15:10:00	14.21	3.25	197.56	14.70	3.04	814.30
15:10:10	14.22	3.27	186.34	14.70	3.02	836.86
15:10:20	14.22	3.29	174.13	14.71	3.01	855.27
15:10:30	14.20	3.29	164.93	14.71	3.00	865.10
15:10:40	14.19	3.26	170.37	14.72	2.99	871.96
15:10:50	14.20	3.21	187.68	14.71	3.00	873.92
15:11:00	14.18	3.19	201.07	14.72	2.99	874.32
15:11:10	14.17	3.18	208.26	14.72	3.00	880.96
15:11:20	14.16	3.17	210.65	14.73	3.02	888.30
15:11:30	14.16	3.17	220.35	14.73	3.03	895.55
15:11:40	14.17	3.16	232.84	14.73	3.04	898.62
15:11:50	14.18	3.16	239.29	14.71	3.04	903.19
15:12:00	14.16	3.15	241.63	14.71	3.05	910.63
15:12:10	14.07	3.15	236.60	14.71	3.06	922.14
15:12:20	13.96	3.15	240.36	14.66	3.07	939.19
15:12:30	13.92	3.13	259.11	14.65	3.08	950.86
15:12:40	14.08	3.12	284.90	14.63	3.07	957.76
15:12:50	14.16	3.12	305.42	14.63	3.07	966.31
15:13:00	14.20	3.13	308.58	14.67	3.06	977.74
15:13:10	14.20	3.18	292.62	14.65	3.06	989.88
15:13:20	14.21	3.22	265.43	14.66	3.04	998.81
15:13:30	14.18	3.27	234.75	14.66	3.03	997.94
15:13:40	14.18	3.30	209.10	14.67	3.03	996.84
15:13:50	14.20	3.32	195.01	14.68	3.03	997.59
15:14:00	14.19	3.33	189.70	14.68	3.02	994.36
15:14:10	14.17	3.34	186.23	14.68	3.01	991.63
15:14:20	14.15	3.35	186.58	14.69	3.00	981.48
15:14:30	14.15	3.35	188.48	14.68	3.00	969.98
15:14:40	14.15	3.34	187.98	14.69	2.99	959.46
15:14:50	14.13	3.32	189.08	14.67	2.96	947.54

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
15:15:00	14.13	3.33	188.92	14.70	2.93	933.07
15:15:10	14.12	3.35	187.69	14.69	2.91	912.19
15:15:20	14.12	3.39	184.50	14.71	2.89	886.71
15:15:30	14.11	3.43	181.69	14.74	2.90	853.70
15:15:40	14.11	3.46	178.84	14.73	2.91	812.68
15:15:50	14.09	3.49	173.62	14.75	2.92	772.37
15:16:00	14.07	3.52	161.35	14.75	2.93	738.63
15:16:10	14.06	3.52	150.79	14.76	2.94	723.09
15:16:20	14.05	3.51	142.36	14.76	2.94	718.71
15:16:30	14.05	3.50	130.35	14.77	2.95	720.74
15:16:40	14.03	3.48	122.46	14.78	2.95	725.80
15:16:50	14.02	3.48	117.67	14.77	2.96	731.31
15:17:00	14.02	3.48	123.24	14.78	2.96	734.76
15:17:10	14.01	3.48	134.25	14.78	2.96	740.32
15:17:20	14.00	3.46	144.68	14.78	2.95	745.64
15:17:30	14.00	3.43	145.69	14.78	2.95	746.94
15:17:40	14.01	3.41	140.31	14.79	2.94	743.50
15:17:50	14.01	3.39	133.19	14.79	2.93	739.75
15:18:00	14.02	3.35	129.78	14.79	2.93	735.40
15:18:10	14.03	3.33	128.87	14.80	2.94	732.31
15:18:20	14.03	3.31	127.66	14.81	2.94	735.88
15:18:30	14.04	3.29	128.65	14.80	2.95	745.13
15:18:40	14.07	3.30	127.05	14.82	2.96	758.03
15:18:50	14.07	3.32	121.96	14.80	2.97	771.32
15:19:00	14.08	3.34	119.02	14.81	2.99	782.92
15:19:10	14.10	3.35	119.63	14.80	3.00	792.36
15:19:20	14.09	3.38	115.43	14.82	3.00	814.54
15:19:30	14.10	3.41	107.43	14.79	3.00	843.18
15:19:40	14.10	3.43	103.60	14.81	3.01	864.31
15:19:50	14.11	3.44	101.89	14.79	3.01	879.23
15:20:00	14.10	3.46	102.49	14.80	3.01	901.09
15:20:10	14.09	3.49	103.77	14.78	3.01	929.37
15:20:20	14.07	3.49	110.82	14.77	3.01	956.68
15:20:30	14.06	3.49	123.44	14.78	3.01	974.03
15:20:40	14.04	3.48	141.18	14.77	3.02	982.39
15:20:50	14.04	3.45	164.87	14.77	3.04	971.96
15:21:00	14.05	3.42	184.22	14.76	3.06	954.32
15:21:10	14.05	3.38	203.23	14.78	3.09	921.74
15:21:20	14.02	3.35	217.69	14.75	3.12	882.15
15:21:30	14.05	3.34	220.39	14.74	3.14	843.00
15:21:40	13.81	3.32	212.52	14.73	3.16	804.99
15:21:50	13.87	3.31	204.85	14.72	3.18	777.65
15:22:00	13.98	3.32	195.28	14.72	3.19	761.33
15:22:10	13.99	3.33	185.96	14.72	3.21	746.33
15:22:20	14.00	3.34	173.96	14.70	3.21	742.48
15:22:30	14.01	3.35	161.36	14.69	3.19	755.71
15:22:40	14.02	3.37	153.07	14.68	3.19	763.41
15:22:50	14.02	3.38	147.73	14.69	3.18	769.88
15:23:00	14.00	3.40	143.03	14.68	3.18	772.45
15:23:10	14.00	3.44	139.33	14.67	3.18	772.32
15:23:20	14.01	3.48	137.02	14.68	3.17	774.13
15:23:30	14.00	3.53	133.43	14.67	3.16	771.72
15:23:40	13.98	3.59	129.42	14.69	3.15	762.63
15:23:50	13.97	3.62	130.64	14.67	3.16	745.08

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:24:00	13.94	3.62	132.10	14.67	3.18	717.46	
15:24:10	13.93	3.62	132.15	14.64	3.21	680.74	
15:24:20	13.94	3.62	130.77	14.59	3.22	644.68	
15:24:30	13.92	3.63	127.16	14.64	3.23	616.16	
15:24:40	13.91	3.65	124.47	14.67	3.23	594.93	
15:24:50	13.91	3.66	124.12	14.68	3.24	582.42	
15:25:00	13.89	3.67	122.56	14.68	3.25	575.94	
15:25:10	13.87	3.66	119.51	14.67	3.27	566.77	
15:25:20	13.85	3.64	121.02	14.67	3.29	556.73	
15:25:30	13.84	3.62	126.39	14.67	3.31	549.96	
15:25:40	13.85	3.59	134.08	14.64	3.33	541.73	
15:25:50	13.92	3.57	139.75	14.61	3.34	531.32	
15:26:00	13.95	3.56	147.00	14.58	3.36	523.71	
15:26:10	13.95	3.57	153.99	14.59	3.36	535.24	
15:26:20	13.96	3.57	160.76	14.61	3.36	564.13	
15:26:30	13.48	3.57	159.91	14.60	3.35	593.96	
15:26:40	13.37	3.57	161.19	14.55	3.33	626.36	
15:26:50	13.33	3.56	166.89	14.53	3.32	652.18	
15:27:00	13.30	3.54	181.59	14.52	3.32	669.05	
15:27:10	13.30	3.52	203.24	14.52	3.32	667.52	
15:27:20	13.36	3.52	226.25	14.52	3.31	660.59	
15:27:30	13.42	3.53	236.21	14.51	3.31	649.04	
15:27:40	13.48	3.55	229.81	14.52	3.30	635.23	
15:27:50	13.78	3.57	215.80	14.51	3.30	619.86	
15:28:00	13.86	3.58	196.70	14.55	3.29	604.80	
15:28:10	13.87	3.59	177.71	14.56	3.30	592.57	
15:28:20	13.88	3.58	161.06	14.59	3.30	578.83	
15:28:30	13.87	3.57	146.99	14.57	3.32	560.72	
15:28:40	13.87	3.54	138.33	14.57	3.33	539.51	
15:28:50	13.86	3.53	133.20	14.56	3.36	525.33	
15:29:00	13.87	3.53	128.04	14.55	3.37	527.24	
15:29:10	13.88	3.53	124.05	14.56	3.36	546.68	
15:29:20	13.87	3.52	126.31	14.56	3.36	570.81	
15:29:30	13.88	3.53	131.65	14.57	3.35	584.34	
15:29:40	13.88	3.52	142.05	14.54	3.37	585.17	
15:29:50	13.87	3.49	149.49	14.54	3.40	583.60	
average	14.24	3.12	214.17	14.77	2.99	859.86	Test 24
minimum	13.30	2.61	101.89	14.49	2.73	523.71	
maximum	14.61	3.67	452.28	15.01	3.40	1228.49	

7:45:00	15.24	3.48	44.68	15.31	3.40	250.32	Test 25
7:45:10	15.24	3.46	55.31	15.32	3.38	254.73	
7:45:20	15.25	3.44	64.07	15.33	3.37	265.45	
7:45:30	15.26	3.41	75.39	15.33	3.35	289.21	
7:45:40	15.28	3.39	87.89	15.33	3.33	312.66	
7:45:50	15.31	3.38	92.41	15.32	3.32	327.71	
7:46:00	15.33	3.39	93.18	15.32	3.31	337.28	
7:46:10	15.35	3.39	93.37	15.34	3.32	343.14	
7:46:20	15.34	3.42	90.33	15.33	3.34	341.44	
7:46:30	15.37	3.44	86.90	15.33	3.37	339.33	
7:46:40	15.37	3.46	84.39	15.34	3.38	337.01	
7:46:50	15.36	3.48	80.21	15.33	3.38	332.23	
7:47:00	15.39	3.52	74.98	15.32	3.36	327.41	
7:47:10	15.37	3.56	67.21	15.32	3.34	326.61	
7:47:20	15.38	3.61	59.70	15.32	3.31	333.79	
7:47:30	15.38	3.66	53.07	15.32	3.29	359.78	
7:47:40	15.37	3.72	48.02	15.33	3.25	408.41	
7:47:50	15.37	3.76	44.37	15.34	3.20	471.22	
7:48:00	15.36	3.81	40.63	15.31	3.16	528.50	
7:48:10	15.33	3.83	37.56	15.35	3.13	571.87	
7:48:20	15.30	3.85	34.65	15.33	3.13	594.72	
7:48:30	15.30	3.86	31.98	15.33	3.12	596.86	
7:48:40	15.27	3.88	28.50	15.37	3.12	580.55	
7:48:50	15.27	3.88	26.00	15.37	3.14	550.06	
7:49:00	15.24	3.87	23.83	15.36	3.18	504.80	
7:49:10	15.23	3.84	21.96	15.39	3.21	464.47	
7:49:20	15.22	3.81	21.53	15.41	3.23	430.98	
7:49:30	15.22	3.78	22.07	15.42	3.24	402.26	
7:49:40	15.23	3.78	21.66	15.41	3.25	380.43	
7:49:50	15.21	3.78	21.76	15.40	3.27	360.37	
7:50:00	15.19	3.77	25.90	15.40	3.31	342.64	
7:50:10	15.19	3.74	31.50	15.42	3.35	325.12	
7:50:20	15.18	3.73	35.16	15.40	3.38	308.25	
7:50:30	15.19	3.74	35.35	15.42	3.39	291.80	
7:50:40	15.20	3.75	33.46	15.41	3.39	276.35	
7:50:50	15.21	3.74	32.77	15.38	3.38	264.67	
7:51:00	15.20	3.71	33.91	15.37	3.38	257.03	
7:51:10	15.21	3.66	37.33	15.36	3.39	253.03	
7:51:20	15.20	3.60	43.85	15.35	3.43	247.61	
7:51:30	15.21	3.52	53.10	15.35	3.47	235.51	
7:51:40	15.20	3.44	64.63	15.31	3.51	221.14	
7:51:50	15.22	3.37	74.86	15.33	3.57	207.24	
7:52:00	15.24	3.32	80.49	15.31	3.61	195.48	
7:52:10	15.29	3.31	85.57	15.30	3.65	183.85	
7:52:20	15.32	3.31	87.48	15.28	3.68	171.66	
7:52:30	15.36	3.33	86.51	15.27	3.70	160.76	
7:52:40	15.36	3.36	80.83	15.24	3.70	153.21	
7:52:50	15.36	3.40	73.00	15.22	3.70	147.95	
7:53:00	15.38	3.45	64.57	15.21	3.69	144.61	
7:53:10	15.41	3.51	55.47	15.19	3.68	142.04	
7:53:20	15.44	3.55	47.94	15.19	3.69	140.37	
7:53:30	15.42	3.60	41.40	15.16	3.69	139.88	
7:53:40	15.43	3.63	36.28	15.15	3.67	139.42	
7:53:50	15.42	3.66	31.54	15.15	3.64	140.19	
7:54:00	15.40	3.67	29.98	15.13	3.62	143.59	
7:54:10	15.38	3.65	34.19	15.13	3.60	147.80	
7:54:20	15.38	3.60	40.58	15.12	3.59	154.01	
7:54:30	15.36	3.54	44.08	15.13	3.59	156.78	
7:54:40	15.37	3.49	44.51	15.13	3.61	158.88	

7:54:50	15.36	3.45	44.16	15.13	3.62	159.16
7:55:00	15.38	3.41	45.77	15.13	3.62	157.85
7:55:10	15.38	3.38	47.02	15.11	3.61	155.50
7:55:20	15.40	3.34	52.17	15.11	3.61	152.80
7:55:30	15.40	3.30	58.02	15.11	3.61	148.46
7:55:40	15.41	3.29	60.66	15.12	3.61	142.28
7:55:50	15.42	3.31	58.96	15.13	3.62	135.36
7:56:00	15.45	3.34	57.60	15.12	3.63	128.84
7:56:10	15.47	3.35	56.71	15.13	3.63	127.27
7:56:20	15.47	3.35	56.09	15.13	3.64	127.14
7:56:30	15.46	3.35	53.73	15.13	3.64	127.16
7:56:40	15.48	3.33	51.54	15.11	3.65	126.28
7:56:50	15.50	3.33	52.55	15.11	3.66	126.69
7:57:00	15.50	3.30	59.23	15.10	3.69	129.35
7:57:10	15.48	3.27	67.43	15.10	3.71	132.27
7:57:20	15.50	3.26	71.10	15.10	3.74	135.64
7:57:30	15.50	3.29	69.57	15.08	3.74	137.63
7:57:40	15.51	3.33	66.78	15.06	3.73	136.11
7:57:50	15.52	3.38	62.62	15.07	3.71	133.98
7:58:00	15.54	3.43	55.88	15.08	3.66	133.89
7:58:10	15.55	3.48	49.78	15.07	3.59	135.50
7:58:20	15.54	3.53	42.99	15.06	3.51	141.13
7:58:30	15.54	3.57	37.36	15.06	3.45	146.92
7:58:40	15.55	3.62	32.23	15.09	3.40	149.97
7:58:50	15.51	3.64	27.46	15.10	3.36	151.30
7:59:00	15.51	3.64	24.19	15.13	3.33	156.51
7:59:10	15.46	3.65	21.30	15.14	3.31	174.50
7:59:20	15.41	3.66	19.25	15.16	3.28	200.57
7:59:30	15.37	3.67	19.18	15.17	3.28	226.35
7:59:40	15.38	3.65	23.78	15.19	3.27	245.63
7:59:50	15.38	3.61	33.23	15.21	3.26	257.61
8:00:00	15.38	3.55	45.08	15.25	3.24	263.95
8:00:10	15.35	3.49	55.90	15.27	3.25	268.34
8:00:20	15.35	3.44	61.40	15.28	3.27	278.41
8:00:30	15.38	3.41	64.15	15.28	3.28	287.98
8:00:40	15.38	3.39	64.64	15.30	3.28	295.30
8:00:50	15.40	3.40	63.02	15.30	3.30	303.01
8:01:00	15.42	3.42	60.23	15.31	3.30	310.74
8:01:10	15.43	3.47	54.62	15.32	3.32	314.61
8:01:20	15.45	3.53	48.15	15.32	3.32	317.21
8:01:30	15.45	3.58	42.29	15.33	3.30	325.95
8:01:40	15.45	3.64	36.56	15.32	3.31	335.36
8:01:50	15.44	3.70	31.35	15.33	3.30	343.16
8:02:00	15.42	3.74	26.56	15.33	3.27	353.63
8:02:10	15.40	3.75	25.35	15.31	3.26	359.92
8:02:20	15.38	3.75	27.42	15.33	3.24	365.13
8:02:30	15.37	3.72	29.96	15.34	3.25	369.69
8:02:40	15.34	3.67	37.13	15.33	3.27	379.20
8:02:50	15.33	3.63	47.70	15.36	3.27	396.65
8:03:00	15.31	3.59	57.33	15.35	3.28	421.00
8:03:10	15.30	3.56	64.16	15.37	3.27	453.67
8:03:20	15.32	3.53	66.42	15.34	3.25	485.76
8:03:30	15.32	3.52	67.62	15.33	3.21	519.50
8:03:40	15.32	3.51	71.77	15.36	3.20	545.82
8:03:50	15.34	3.49	78.62	15.36	3.19	571.51
8:04:00	15.35	3.48	84.13	15.36	3.18	596.05
8:04:10	15.36	3.48	83.00	15.30	3.18	619.51
8:04:20	15.37	3.50	78.34	15.26	3.19	637.47
8:04:30	15.38	3.51	69.94	15.30	3.19	652.84

8:04:40	15.38	3.52	64.22	15.28	3.17	661.55
8:04:50	15.39	3.51	59.73	15.29	3.20	660.29
8:05:00	15.40	3.50	55.36	15.29	3.20	660.47
8:05:10	15.42	3.50	50.10	15.30	3.23	658.82
8:05:20	15.43	3.49	47.28	15.28	3.24	656.35
8:05:30	15.44	3.50	46.89	15.29	3.24	648.17
8:05:40	15.44	3.52	46.13	15.30	3.24	638.00
8:05:50	15.45	3.55	44.47	15.31	3.22	628.47
8:06:00	15.45	3.60	40.71	15.32	3.19	621.20
8:06:10	15.45	3.61	38.86	15.33	3.17	615.03
8:06:20	15.43	3.60	38.27	15.34	3.17	602.35
8:06:30	15.44	3.58	37.05	15.37	3.14	599.79
8:06:40	15.43	3.59	34.36	15.34	3.10	613.66
8:06:50	15.44	3.62	31.57	15.35	3.08	621.70
8:07:00	15.43	3.66	29.57	15.36	3.08	613.80
8:07:10	15.42	3.68	27.44	15.42	3.09	590.48
8:07:20	15.41	3.69	26.54	15.41	3.14	558.06
8:07:30	15.40	3.70	25.43	15.40	3.19	519.43
8:07:40	15.39	3.70	24.03	15.39	3.24	481.69
8:07:50	15.37	3.70	22.39	15.43	3.27	447.18
8:08:00	15.37	3.71	22.43	15.44	3.29	412.88
8:08:10	15.36	3.71	22.78	15.39	3.32	383.23
8:08:20	15.34	3.70	23.03	15.40	3.36	357.03
8:08:30	15.34	3.68	24.93	15.38	3.43	336.44
8:08:40	15.33	3.65	26.62	15.40	3.48	322.42
8:08:50	15.35	3.64	26.63	15.37	3.51	310.44
8:09:00	15.34	3.64	25.91	15.37	3.53	299.94
8:09:10	15.34	3.64	25.18	15.32	3.50	293.95
8:09:20	15.32	3.65	24.54	15.33	3.47	288.16
8:09:30	15.35	3.68	23.66	15.32	3.45	289.29
8:09:40	15.35	3.71	24.36	15.30	3.43	299.09
8:09:50	15.33	3.73	25.74	15.30	3.42	304.79
8:10:00	15.32	3.75	26.07	15.28	3.42	299.47
8:10:10	15.32	3.76	26.07	15.30	3.42	294.34
8:10:20	15.32	3.76	25.28	15.29	3.41	293.97
8:10:30	15.31	3.76	26.65	15.28	3.41	293.70
8:10:40	15.29	3.74	29.49	15.28	3.42	290.69
8:10:50	15.29	3.70	31.53	15.27	3.43	285.03
8:11:00	15.29	3.66	33.08	15.27	3.45	281.01
8:11:10	15.29	3.63	32.92	15.27	3.47	278.61
8:11:20	15.30	3.60	33.27	15.28	3.46	279.83
8:11:30	15.32	3.56	35.91	15.27	3.46	283.34
8:11:40	15.31	3.52	42.20	15.26	3.45	283.01
8:11:50	15.31	3.47	53.79	15.23	3.44	281.94
8:12:00	15.30	3.42	69.10	15.25	3.44	280.22
8:12:10	15.32	3.39	80.45	15.24	3.45	275.66
8:12:20	15.36	3.38	85.16	15.26	3.49	271.31
8:12:30	15.37	3.37	86.33	15.23	3.55	262.10
8:12:40	15.42	3.36	97.73	15.22	3.59	258.74
8:12:50	15.45	3.33	128.86	15.21	3.63	258.79
8:13:00	15.45	3.29	162.63	15.21	3.66	259.31
8:13:10	15.47	3.26	180.51	15.20	3.67	260.70
8:13:20	15.49	3.24	189.77	15.15	3.69	257.22
8:13:30	15.53	3.23	191.99	15.14	3.71	257.95
8:13:40	15.53	3.22	188.79	15.14	3.72	257.31
8:13:50	15.53	3.24	175.63	15.11	3.70	254.72
8:14:00	15.54	3.29	157.46	15.10	3.68	247.20
8:14:10	15.57	3.36	135.95	15.09	3.64	241.93
8:14:20	15.58	3.43	113.29	15.05	3.61	236.72

8:14:30	15.54	3.51	93.16	15.05	3.58	228.99
8:14:40	15.51	3.57	75.73	15.05	3.57	222.24
8:14:50	15.50	3.62	61.34	15.08	3.56	217.92
8:15:00	15.51	3.67	49.09	15.07	3.55	222.22
8:15:10	15.49	3.72	40.96	15.08	3.55	228.13
8:15:20	15.47	3.74	34.65	15.07	3.55	233.63
8:15:30	15.46	3.74	30.11	15.09	3.56	239.74
8:15:40	15.44	3.74	27.50	15.08	3.57	240.00
8:15:50	15.41	3.73	25.57	15.09	3.60	233.07
8:16:00	15.41	3.68	28.39	15.08	3.61	223.88
8:16:10	15.34	3.63	33.01	15.09	3.62	217.64
8:16:20	15.34	3.60	36.37	15.08	3.61	213.88
8:16:30	15.37	3.60	36.28	15.07	3.59	212.13
8:16:40	15.36	3.63	34.37	15.08	3.58	214.69
8:16:50	15.37	3.66	31.11	15.08	3.56	223.67
8:17:00	15.38	3.71	27.91	15.08	3.54	238.82
8:17:10	15.36	3.74	25.05	15.11	3.54	261.03
8:17:20	15.37	3.76	22.84	15.09	3.53	284.63
8:17:30	15.34	3.77	20.61	15.10	3.53	303.42
8:17:40	15.33	3.77	18.97	15.08	3.55	310.10
8:17:50	15.31	3.77	17.22	15.09	3.57	306.49
8:18:00	15.31	3.77	15.86	15.12	3.58	296.81
8:18:10	15.31	3.76	15.50	15.11	3.58	283.78
8:18:20	15.30	3.76	14.56	15.11	3.57	267.50
8:18:30	15.31	3.75	14.29	15.10	3.57	247.44
8:18:40	15.30	3.75	13.66	15.09	3.59	230.45
8:18:50	15.30	3.74	12.59	15.09	3.60	219.29
8:19:00	15.29	3.74	11.76	15.09	3.60	217.62
8:19:10	15.30	3.74	11.29	15.12	3.59	217.34
8:19:20	15.29	3.76	10.76	15.12	3.57	212.47
8:19:30	15.29	3.75	11.02	15.14	3.57	204.04
8:19:40	15.28	3.75	11.65	15.13	3.57	197.56
8:19:50	15.28	3.73	14.37	15.11	3.59	195.88
8:20:00	15.29	3.71	16.94	15.11	3.59	203.08
8:20:10	15.29	3.67	18.54	15.11	3.60	216.26
8:20:20	15.29	3.63	20.06	15.10	3.59	227.97
8:20:30	15.31	3.60	21.35	15.10	3.58	232.71
8:20:40	15.32	3.58	21.77	15.09	3.56	229.32
8:20:50	15.33	3.56	21.58	15.12	3.55	220.11
8:21:00	15.36	3.57	20.47	15.10	3.51	209.98
8:21:10	15.37	3.57	19.61	15.11	3.47	202.16
8:21:20	15.37	3.56	19.10	15.13	3.43	196.24
8:21:30	15.38	3.55	20.10	15.14	3.43	191.47
8:21:40	15.39	3.54	22.75	15.14	3.45	187.54
8:21:50	15.40	3.53	24.29	15.16	3.48	186.17
8:22:00	15.41	3.52	25.78	15.16	3.48	191.25
8:22:10	15.41	3.50	27.24	15.17	3.48	210.87
8:22:20	15.44	3.51	28.69	15.16	3.46	245.62
8:22:30	15.45	3.51	30.36	15.18	3.44	285.15
8:22:40	15.44	3.51	31.27	15.18	3.41	319.20
8:22:50	15.45	3.52	33.01	15.18	3.38	341.83
8:23:00	15.46	3.53	33.29	15.18	3.36	355.72
8:23:10	15.46	3.54	32.25	15.18	3.40	360.71
8:23:20	15.48	3.55	30.50	15.21	3.43	362.00
8:23:30	15.47	3.58	28.43	15.21	3.43	360.92
8:23:40	15.47	3.60	27.49	15.20	3.43	359.74
8:23:50	15.46	3.62	27.81	15.21	3.45	348.78
8:24:00	15.45	3.65	29.80	15.21	3.46	336.09
8:24:10	15.44	3.68	31.34	15.21	3.46	321.69

8:24:20	15.42	3.71	31.42	15.22	3.46	313.52
8:24:30	15.43	3.72	30.97	15.21	3.47	308.31
8:24:40	15.42	3.71	29.59	15.22	3.49	300.15
8:24:50	15.40	3.67	29.57	15.21	3.50	291.19
8:25:00	15.41	3.61	29.72	15.19	3.52	286.73
8:25:10	15.41	3.54	30.77	15.20	3.52	283.29
8:25:20	15.41	3.50	31.27	15.19	3.54	277.18
8:25:30	15.42	3.48	32.56	15.19	3.55	264.03
8:25:40	15.43	3.46	33.52	15.16	3.55	249.03
8:25:50	15.45	3.47	34.68	15.17	3.55	234.54
8:26:00	15.47	3.49	33.95	15.15	3.55	221.54
8:26:10	15.47	3.51	31.96	15.17	3.55	211.00
8:26:20	15.48	3.53	29.74	15.15	3.54	200.04
8:26:30	15.50	3.55	28.93	15.18	3.54	193.91
8:26:40	15.49	3.54	29.80	15.18	3.54	191.72
8:26:50	15.48	3.54	30.57	15.15	3.55	199.12
8:27:00	15.50	3.55	30.82	15.15	3.54	218.64
8:27:10	15.49	3.56	30.83	15.15	3.51	242.16
8:27:20	15.50	3.56	30.42	15.18	3.49	258.12
8:27:30	15.49	3.54	30.27	15.16	3.49	268.18
8:27:40	15.49	3.52	29.30	15.19	3.48	280.43
8:27:50	15.51	3.53	27.87	15.17	3.47	291.94
8:28:00	15.50	3.56	25.94	15.17	3.46	307.64
8:28:10	15.50	3.61	23.85	15.16	3.43	331.34
8:28:20	15.49	3.67	21.76	15.16	3.41	358.03
8:28:30	15.48	3.71	20.18	15.18	3.40	389.51
8:28:40	15.47	3.75	19.10	15.20	3.40	426.45
8:28:50	15.45	3.75	17.45	15.19	3.40	463.54
8:29:00	15.42	3.74	16.60	15.17	3.40	493.35
8:29:10	15.42	3.72	16.64	15.16	3.40	515.89
8:29:20	15.41	3.71	17.04	15.19	3.40	527.33
8:29:30	15.41	3.72	16.22	15.17	3.39	521.52
8:29:40	15.40	3.72	15.92	15.16	3.39	504.23
8:29:50	15.40	3.73	17.51	15.18	3.38	478.71
8:30:00	15.40	3.71	22.12	15.23	3.39	448.68
8:30:10	15.38	3.68	26.67	15.23	3.38	418.81
8:30:20	15.38	3.65	30.74	15.22	3.38	396.59
8:30:30	15.38	3.62	32.68	15.22	3.38	373.24
8:30:40	15.38	3.59	34.74	15.24	3.36	352.81
8:30:50	15.38	3.59	35.59	15.26	3.35	330.23
8:31:00	15.39	3.60	34.19	15.25	3.33	321.02
8:31:10	15.41	3.63	31.35	15.28	3.31	326.80
8:31:20	15.41	3.67	28.77	15.26	3.27	335.85
8:31:30	15.42	3.70	29.19	15.29	3.24	339.02
8:31:40	15.41	3.70	34.52	15.29	3.21	338.52
8:31:50	15.39	3.69	38.07	15.30	3.20	336.03
8:32:00	15.37	3.69	38.69	15.31	3.18	329.85
8:32:10	15.38	3.69	38.14	15.33	3.17	322.96
8:32:20	15.40	3.70	36.05	15.34	3.17	319.25
8:32:30	15.39	3.72	32.74	15.37	3.19	328.32
8:32:40	15.39	3.74	29.45	15.37	3.19	340.48
8:32:50	15.38	3.76	26.50	15.37	3.19	351.27
8:33:00	15.37	3.80	23.45	15.38	3.17	357.93
8:33:10	15.36	3.86	20.20	15.38	3.14	358.89
8:33:20	15.33	3.89	18.78	15.38	3.13	351.77
8:33:30	15.33	3.90	18.37	15.40	3.12	343.75
8:33:40	15.31	3.88	18.21	15.42	3.09	338.92
8:33:50	15.29	3.86	18.48	15.42	3.08	336.18
8:34:00	15.26	3.83	19.87	15.45	3.09	327.75

8:34:10	15.23	3.79	21.22	15.49	3.12	318.50
8:34:20	15.22	3.77	23.07	15.49	3.15	308.62
8:34:30	15.23	3.76	22.82	15.50	3.17	299.72
8:34:40	15.27	3.77	23.05	15.50	3.19	286.55
8:34:50	15.28	3.78	24.98	15.48	3.20	273.41
8:35:00	15.28	3.78	25.59	15.46	3.22	258.19
8:35:10	15.30	3.75	26.36	15.47	3.24	243.95
8:35:20	15.30	3.72	27.16	15.46	3.27	230.98
8:35:30	15.31	3.70	27.64	15.47	3.30	220.65
8:35:40	15.30	3.70	27.72	15.44	3.31	216.42
8:35:50	15.31	3.70	26.66	15.43	3.31	219.68
8:36:00	15.32	3.69	26.73	15.44	3.31	235.32
8:36:10	15.32	3.66	29.25	15.43	3.32	262.55
8:36:20	15.33	3.64	34.49	15.43	3.34	294.39
8:36:30	15.32	3.63	41.53	15.41	3.36	319.17
8:36:40	15.31	3.60	46.93	15.41	3.40	327.71
8:36:50	15.32	3.58	49.88	15.38	3.44	329.05
8:37:00	15.33	3.56	51.30	15.38	3.49	326.16
8:37:10	15.34	3.57	50.30	15.38	3.51	326.76
8:37:20	15.33	3.58	49.45	15.34	3.51	324.89
8:37:30	15.37	3.59	49.48	15.35	3.53	315.10
8:37:40	15.36	3.57	51.23	15.31	3.55	296.39
8:37:50	15.39	3.55	51.85	15.29	3.59	277.11
8:38:00	15.40	3.55	50.38	15.26	3.63	257.20
8:38:10	15.40	3.57	47.46	15.25	3.67	247.22
8:38:20	15.42	3.61	43.70	15.22	3.68	248.47
8:38:30	15.43	3.63	39.55	15.23	3.65	261.93
8:38:40	15.43	3.64	36.74	15.22	3.61	286.80
8:38:50	15.43	3.64	33.90	15.17	3.57	315.21
8:39:00	15.44	3.64	31.96	15.18	3.54	340.64
8:39:10	15.42	3.63	29.59	15.14	3.51	361.69
8:39:20	15.42	3.63	27.08	15.15	3.51	375.94
8:39:30	15.43	3.65	24.80	15.15	3.49	389.20
8:39:40	15.43	3.69	22.07	15.14	3.50	391.96
8:39:50	15.44	3.71	20.43	15.15	3.50	386.87
8:40:00	15.42	3.75	18.67	15.14	3.52	372.02
8:40:10	15.42	3.78	17.48	15.15	3.54	348.64
8:40:20	15.39	3.81	15.75	15.14	3.57	323.46
8:40:30	15.37	3.83	13.97	15.17	3.59	300.28
8:40:40	15.36	3.83	12.98	15.16	3.60	287.57
8:40:50	15.33	3.80	13.33	15.15	3.60	287.80
8:41:00	15.34	3.76	16.64	15.16	3.61	289.64
8:41:10	15.33	3.70	25.49	15.14	3.64	281.90
8:41:20	15.34	3.64	37.69	15.14	3.67	268.43
8:41:30	15.31	3.59	46.99	15.10	3.69	255.28
8:41:40	15.34	3.55	50.70	15.11	3.71	245.17
8:41:50	15.34	3.52	52.38	15.08	3.73	239.43
8:42:00	15.32	3.50	49.60	15.07	3.74	242.94
8:42:10	15.33	3.51	45.08	15.06	3.73	246.42
8:42:20	15.37	3.53	39.84	15.04	3.70	245.23
8:42:30	15.38	3.56	34.54	15.05	3.67	243.91
8:42:40	15.42	3.56	30.30	15.05	3.66	237.48
8:42:50	15.43	3.53	27.15	15.04	3.64	229.98
8:43:00	15.46	3.52	24.73	15.03	3.63	222.35
8:43:10	15.46	3.50	24.79	15.03	3.62	214.60
8:43:20	15.48	3.48	26.60	15.04	3.63	205.73
8:43:30	15.48	3.47	26.92	15.04	3.64	196.68
8:43:40	15.50	3.48	26.06	15.06	3.64	189.98
8:43:50	15.51	3.50	23.57	15.05	3.64	182.25

8:44:00	15.50	3.52	21.22	15.07	3.62	179.45	
8:44:10	15.51	3.54	19.14	15.07	3.61	180.02	
8:44:20	15.50	3.55	18.86	15.06	3.61	187.34	
8:44:30	15.52	3.54	19.79	15.05	3.62	202.87	
8:44:40	15.52	3.55	20.34	15.06	3.62	223.17	
8:44:50	15.63	3.57	21.08	15.06	3.59	242.18	
average	15.38	3.60	41.37	15.23	3.44	303.74	Test 25
minimum	15.18	3.22	10.76	15.03	3.08	126.28	
maximum	15.63	3.90	191.99	15.50	3.74	661.55	

14:45:03	15.29	3.89	275.82	14.61	4.10	201.28	Test 26
14:45:13	15.28	3.89	278.18	14.61	4.11	207.24	
14:45:23	15.21	3.90	275.94	14.62	4.10	203.29	
14:45:33	15.22	3.90	273.93	14.63	4.07	195.94	
14:45:43	15.20	3.92	269.66	14.64	4.04	186.62	
14:45:53	15.20	3.91	266.92	14.64	4.01	176.73	
14:46:03	15.17	3.88	270.65	14.67	3.98	167.18	
14:46:13	15.17	3.86	271.13	14.67	3.97	158.14	
14:46:23	15.15	3.83	267.84	14.69	3.96	150.23	
14:46:33	15.15	3.80	262.72	14.69	3.96	145.23	
14:46:43	15.17	3.78	251.99	14.68	3.95	144.43	
14:46:53	15.18	3.79	241.20	14.67	3.94	150.25	
14:47:03	15.19	3.81	230.75	14.69	3.94	157.71	
14:47:13	15.17	3.84	216.45	14.70	3.92	173.46	
14:47:23	15.16	3.87	204.05	14.72	3.91	196.08	
14:47:33	15.16	3.90	190.95	14.71	3.89	218.42	
14:47:43	15.16	3.94	178.60	14.72	3.85	231.51	
14:47:53	15.14	4.02	165.19	14.76	3.80	230.32	
14:48:03	15.11	4.09	152.38	14.77	3.75	221.53	
14:48:13	15.09	4.14	140.48	14.80	3.68	210.03	
14:48:23	15.06	4.18	129.93	14.84	3.64	197.67	
14:48:33	15.04	4.19	123.40	14.88	3.59	191.23	
14:48:43	15.03	4.17	116.92	14.92	3.55	193.46	
14:48:53	15.01	4.11	114.07	14.94	3.51	196.88	
14:49:03	15.01	4.04	114.16	14.97	3.49	197.93	
14:49:13	15.00	3.94	111.81	15.00	3.54	191.37	
14:49:23	15.02	3.84	106.56	15.02	3.62	179.17	
14:49:33	15.05	3.76	99.54	15.02	3.73	163.31	
14:49:43	15.06	3.71	93.14	15.03	3.82	147.04	
14:49:53	15.09	3.67	87.57	15.01	3.87	137.42	
14:50:03	15.12	3.63	81.48	14.98	3.92	129.11	
14:50:13	15.14	3.59	78.56	14.98	3.97	119.86	
14:50:23	15.18	3.56	75.53	14.93	4.00	108.11	
14:50:33	15.18	3.53	71.93	14.88	4.02	98.36	
14:50:43	15.23	3.51	69.71	14.86	4.03	90.30	
14:50:53	15.27	3.49	68.07	14.85	4.03	82.52	
14:51:03	15.28	3.46	68.56	14.84	4.03	74.38	
14:51:13	15.30	3.43	66.97	14.84	4.04	66.58	
14:51:23	15.35	3.43	63.77	14.83	4.07	59.22	
14:51:33	15.35	3.43	60.14	14.83	4.11	53.07	
14:51:43	15.38	3.44	56.62	14.83	4.15	48.90	
14:51:53	15.40	3.47	53.41	14.81	4.20	44.73	
14:52:03	15.43	3.51	49.30	14.79	4.24	40.49	
14:52:13	15.46	3.54	45.79	14.76	4.25	37.84	
14:52:23	15.46	3.59	42.53	14.75	4.24	37.46	
14:52:33	15.45	3.62	40.19	14.73	4.21	39.11	
14:52:43	15.46	3.61	37.39	14.73	4.18	41.35	
14:52:53	15.45	3.61	34.92	14.71	4.16	43.71	
14:53:03	15.44	3.61	33.11	14.71	4.16	44.57	
14:53:13	15.45	3.60	31.57	14.70	4.16	43.87	
14:53:23	15.45	3.58	30.43	14.71	4.16	43.89	
14:53:33	15.44	3.55	29.16	14.71	4.18	43.92	
14:53:43	15.44	3.52	28.46	14.68	4.18	44.18	
14:53:53	15.45	3.48	31.55	14.70	4.20	43.76	
14:54:03	15.45	3.45	37.42	14.68	4.23	41.80	
14:54:13	15.46	3.42	39.23	14.67	4.25	39.71	
14:54:23	15.46	3.39	39.01	14.67	4.27	38.71	
14:54:33	15.47	3.36	39.61	14.66	4.29	42.12	
14:54:43	15.50	3.32	41.58	14.63	4.32	48.66	

14:54:53	15.52	3.29	42.02	14.61	4.35	59.36
14:55:03	15.55	3.29	41.23	14.57	4.39	68.25
14:55:13	15.58	3.27	45.76	14.55	4.44	75.47
14:55:23	15.56	3.22	65.17	14.51	4.47	83.44
14:55:33	15.58	3.18	87.19	14.48	4.48	92.48
14:55:43	15.64	3.17	98.13	14.46	4.49	96.43
14:55:53	15.64	3.17	101.61	14.45	4.49	95.47
14:56:03	15.67	3.18	100.46	14.42	4.47	90.56
14:56:13	15.67	3.20	96.83	14.39	4.43	86.43
14:56:23	15.68	3.21	95.74	14.41	4.39	82.52
14:56:33	15.68	3.23	96.95	14.43	4.38	77.25
14:56:43	15.66	3.28	95.00	14.44	4.37	70.92
14:56:53	15.65	3.33	89.97	14.44	4.37	63.10
14:57:03	15.63	3.38	82.95	14.46	4.33	55.18
14:57:13	15.60	3.46	76.48	14.48	4.29	48.84
14:57:23	15.59	3.56	68.76	14.49	4.23	44.58
14:57:33	15.56	3.61	61.86	14.52	4.15	41.72
14:57:43	15.52	3.64	56.50	14.54	4.09	41.74
14:57:53	15.51	3.64	51.60	14.55	4.04	47.08
14:58:03	15.50	3.62	47.06	14.57	4.02	53.76
14:58:13	15.48	3.59	43.30	14.58	4.01	56.27
14:58:23	15.46	3.55	41.22	14.61	4.01	57.72
14:58:33	15.50	3.52	39.29	14.63	4.00	59.58
14:58:43	15.51	3.51	36.69	14.66	3.98	61.11
14:58:53	15.52	3.50	34.06	14.66	3.98	61.50
14:59:03	15.52	3.51	32.12	14.69	3.98	60.46
14:59:13	15.52	3.52	30.24	14.69	3.98	60.03
14:59:23	15.53	3.53	28.61	14.71	3.97	58.67
14:59:33	15.53	3.55	26.28	14.73	3.96	56.87
14:59:43	15.52	3.56	24.61	14.74	3.94	55.58
14:59:53	15.51	3.56	22.94	14.74	3.93	55.24
15:00:03	15.50	3.56	21.46	14.75	3.90	57.71
15:00:13	15.49	3.55	19.40	14.76	3.86	64.22
15:00:23	15.51	3.53	18.58	14.76	3.83	73.30
15:00:33	15.52	3.50	17.82	14.76	3.81	84.57
15:00:43	15.52	3.48	18.96	14.78	3.82	96.20
15:00:53	15.53	3.47	19.46	14.81	3.84	104.96
15:01:03	15.52	3.47	18.99	14.83	3.84	109.13
15:01:13	15.50	3.46	17.95	14.83	3.83	108.03
15:01:23	15.52	3.43	17.94	14.83	3.84	102.14
15:01:33	15.54	3.41	18.68	14.83	3.85	94.27
15:01:43	15.56	3.39	19.91	14.84	3.88	86.66
15:01:53	15.56	3.37	25.00	14.84	3.90	80.37
15:02:03	15.59	3.33	34.30	14.85	3.93	74.58
15:02:13	15.56	3.31	45.46	14.85	3.99	68.95
15:02:23	15.58	3.30	52.06	14.83	4.05	64.89
15:02:33	15.59	3.32	52.12	14.82	4.10	61.75
15:02:43	15.59	3.33	48.93	14.81	4.14	58.89
15:02:53	15.61	3.32	45.71	14.80	4.16	58.47
15:03:03	15.60	3.31	42.08	14.78	4.19	59.82
15:03:13	15.61	3.30	39.10	14.76	4.21	60.65
15:03:23	15.65	3.30	36.02	14.72	4.21	61.21
15:03:33	15.66	3.30	33.70	14.72	4.22	61.51
15:03:43	15.68	3.29	31.81	14.71	4.23	60.32
15:03:53	15.68	3.28	30.60	14.70	4.25	57.96
15:04:03	15.68	3.28	30.23	14.69	4.27	55.92
15:04:13	15.69	3.28	30.17	14.68	4.28	55.36
15:04:23	15.69	3.27	30.11	14.66	4.29	55.17
15:04:33	15.70	3.24	31.88	14.65	4.31	55.47

15:04:43	15.71	3.23	33.16	14.64	4.33	54.76
15:04:53	15.73	3.22	33.46	14.63	4.35	53.74
15:05:03	15.73	3.22	32.54	14.62	4.38	53.17
15:05:13	15.74	3.21	30.55	14.59	4.38	56.46
15:05:23	15.75	3.21	29.45	14.57	4.37	62.47
15:05:33	15.75	3.20	28.04	14.56	4.35	66.87
15:05:43	15.78	3.19	30.13	14.53	4.34	69.22
15:05:53	15.78	3.18	34.43	14.53	4.33	69.25
15:06:03	15.79	3.17	37.54	14.54	4.34	71.36
15:06:13	15.79	3.17	38.36	14.53	4.35	72.09
15:06:23	15.79	3.19	36.92	14.53	4.36	71.98
15:06:33	15.80	3.23	34.79	14.52	4.37	70.43
15:06:43	15.81	3.28	32.34	14.51	4.35	68.77
15:06:53	15.79	3.33	29.69	14.52	4.32	68.74
15:07:03	15.77	3.38	27.68	14.50	4.29	75.23
15:07:13	15.76	3.44	24.63	14.51	4.26	84.09
15:07:23	15.73	3.46	22.54	14.50	4.23	90.43
15:07:33	15.70	3.47	20.67	14.51	4.19	94.40
15:07:43	15.68	3.44	20.24	14.53	4.16	96.73
15:07:53	15.65	3.42	19.83	14.53	4.15	97.20
15:08:03	15.67	3.40	18.84	14.55	4.16	95.37
15:08:13	15.68	3.42	17.16	14.55	4.17	91.72
15:08:23	15.67	3.45	15.98	14.56	4.18	86.67
15:08:33	15.66	3.49	14.98	14.57	4.19	79.87
15:08:43	15.65	3.54	14.03	14.59	4.19	75.62
15:08:53	15.63	3.59	13.11	14.58	4.18	74.82
15:09:03	15.60	3.64	13.58	14.59	4.16	75.79
15:09:13	15.58	3.69	14.51	14.59	4.13	81.20
15:09:23	15.52	3.72	14.78	14.59	4.10	101.15
15:09:33	15.50	3.73	15.73	14.62	4.08	136.41
15:09:43	15.49	3.71	17.32	14.64	4.06	173.22
15:09:53	15.47	3.68	21.33	14.63	4.05	192.13
15:10:03	15.45	3.64	29.44	14.64	4.06	191.66
15:10:13	15.44	3.59	36.47	14.65	4.09	179.61
15:10:23	15.44	3.51	44.90	14.65	4.15	161.51
15:10:33	15.43	3.40	61.68	14.65	4.22	140.77
15:10:43	15.46	3.29	88.45	14.63	4.31	120.31
15:10:53	15.55	3.20	110.65	14.60	4.37	100.65
15:11:03	15.57	3.13	127.81	14.57	4.41	84.32
15:11:13	15.61	3.05	138.74	14.56	4.42	71.20
15:11:23	15.65	3.01	145.07	14.56	4.40	60.38
15:11:33	15.69	2.96	144.30	14.57	4.37	51.80
15:11:43	15.72	2.94	139.85	14.56	4.35	45.15
15:11:53	15.78	2.94	132.08	14.56	4.35	41.34
15:12:03	15.80	2.96	123.13	14.57	4.36	40.02
15:12:13	15.83	2.98	115.85	14.55	4.37	42.31
15:12:23	15.87	3.01	106.59	14.55	4.38	44.44
15:12:33	15.86	3.06	96.71	14.54	4.39	46.55
15:12:43	15.81	3.09	86.13	14.52	4.41	48.14
15:12:53	15.80	3.12	77.25	14.52	4.41	49.62
15:13:03	15.79	3.15	70.28	14.50	4.41	52.31
15:13:13	15.80	3.16	66.00	14.50	4.37	57.56
15:13:23	15.77	3.18	61.97	14.49	4.33	64.04
15:13:33	15.78	3.20	57.41	14.48	4.30	68.50
15:13:43	15.77	3.21	55.55	14.49	4.31	68.28
15:13:53	15.76	3.21	55.04	14.49	4.34	65.33
15:14:03	15.74	3.21	53.92	14.50	4.37	62.78
15:14:13	15.74	3.20	54.08	14.50	4.41	62.11
15:14:23	15.75	3.19	54.01	14.48	4.44	65.27

15:14:33	15.77	3.19	54.28	14.47	4.46	70.37
15:14:43	15.76	3.19	54.20	14.45	4.46	73.38
15:14:53	15.75	3.19	53.13	14.42	4.47	73.33
15:15:03	15.73	3.21	50.45	14.43	4.49	72.26
15:15:13	15.73	3.22	47.78	14.42	4.49	69.36
15:15:23	15.73	3.22	45.19	14.42	4.50	69.34
15:15:33	15.75	3.21	46.29	14.39	4.52	68.65
15:15:43	15.73	3.19	55.42	14.39	4.53	68.01
15:15:53	15.72	3.16	65.83	14.38	4.55	67.21
15:16:03	15.72	3.13	79.97	14.37	4.56	67.53
15:16:13	15.75	3.12	91.44	14.37	4.55	67.43
15:16:23	15.78	3.13	96.86	14.35	4.55	65.63
15:16:33	15.78	3.14	94.10	14.37	4.52	63.17
15:16:43	15.75	3.16	87.57	14.36	4.48	59.24
15:16:53	15.75	3.18	78.50	14.36	4.39	54.97
15:17:03	15.77	3.19	74.80	14.39	4.31	51.09
15:17:13	15.76	3.19	74.89	14.42	4.24	48.38
15:17:23	15.76	3.19	72.33	14.43	4.16	49.53
15:17:33	15.76	3.20	66.93	14.47	4.11	50.63
15:17:43	15.76	3.24	59.54	14.50	4.10	50.81
15:17:53	15.76	3.28	53.43	14.52	4.12	48.44
15:18:03	15.76	3.31	47.88	14.54	4.14	45.78
15:18:13	15.74	3.32	45.38	14.55	4.18	44.50
15:18:23	15.73	3.33	46.41	14.57	4.23	44.67
15:18:33	15.70	3.35	45.22	14.57	4.29	44.36
15:18:43	15.68	3.36	43.46	14.55	4.33	44.73
15:18:53	15.68	3.34	41.97	14.56	4.34	47.48
15:19:03	15.68	3.34	41.15	14.54	4.37	49.05
15:19:13	15.69	3.32	39.57	14.54	4.41	48.50
15:19:23	15.70	3.34	37.95	14.53	4.45	46.68
15:19:33	15.67	3.37	36.66	14.52	4.49	44.52
15:19:43	15.67	3.42	35.43	14.49	4.49	45.04
15:19:53	15.64	3.46	34.94	14.46	4.45	50.91
15:20:03	15.61	3.48	33.12	14.45	4.38	58.57
15:20:13	15.59	3.51	32.07	14.45	4.30	63.95
15:20:23	15.59	3.56	30.98	14.44	4.22	67.63
15:20:33	15.58	3.59	29.20	14.46	4.15	67.90
15:20:43	15.56	3.61	28.28	14.49	4.09	64.81
15:20:53	15.53	3.61	26.03	14.53	4.05	60.22
15:21:03	15.52	3.62	24.80	14.56	4.03	55.52
15:21:13	15.50	3.64	23.65	14.59	4.01	53.04
15:21:23	15.48	3.66	22.23	14.61	3.97	51.60
15:21:33	15.44	3.67	21.12	14.64	3.93	51.95
15:21:43	15.42	3.66	20.97	14.64	3.89	53.80
15:21:53	15.44	3.64	23.18	14.67	3.87	53.63
15:22:03	15.43	3.61	25.03	14.70	3.88	51.34
15:22:13	15.44	3.58	24.84	14.72	3.93	49.08
15:22:23	15.44	3.58	24.34	14.74	3.99	48.77
15:22:33	15.43	3.57	22.62	14.74	4.05	49.71
15:22:43	15.46	3.56	20.60	14.73	4.11	49.55
15:22:53	15.43	3.56	18.65	14.73	4.17	47.87
15:23:03	15.41	3.58	16.44	14.73	4.22	45.39
15:23:13	15.41	3.60	14.33	14.71	4.24	43.69
15:23:23	15.40	3.60	13.10	14.69	4.22	42.13
15:23:33	15.42	3.58	13.19	14.68	4.19	40.57
15:23:43	15.43	3.54	14.13	14.68	4.17	39.47
15:23:53	15.44	3.51	16.53	14.67	4.17	39.11
15:24:03	15.46	3.50	18.88	14.67	4.20	39.22
15:24:13	15.48	3.47	21.61	14.66	4.21	40.92

15:24:23	15.48	3.45	23.37	14.65	4.24	43.91	
15:24:33	15.48	3.45	23.36	14.65	4.25	45.73	
15:24:43	15.47	3.46	21.83	14.64	4.26	46.53	
15:24:53	15.49	3.47	20.47	14.64	4.26	46.21	
15:25:03	15.50	3.46	19.04	14.61	4.24	45.63	
15:25:13	15.50	3.46	18.60	14.62	4.21	44.01	
15:25:23	15.50	3.47	18.95	14.62	4.18	42.70	
15:25:33	15.50	3.48	18.17	14.62	4.12	43.89	
15:25:43	15.50	3.49	17.07	14.61	4.08	47.09	
15:25:53	15.50	3.49	16.45	14.63	4.06	49.41	
15:26:03	15.51	3.48	15.57	14.64	4.06	49.62	
15:26:13	15.50	3.48	14.48	14.67	4.06	47.79	
15:26:23	15.49	3.47	14.44	14.67	4.09	44.90	
15:26:33	15.49	3.45	14.35	14.66	4.14	42.21	
15:26:43	15.60	3.45	13.96	14.67	4.19	40.58	
15:26:53	15.63	3.44	14.37	14.68	4.24	39.42	
15:27:03	15.64	3.46	15.66	14.65	4.24	39.48	
15:27:13	15.62	3.47	16.24	14.64	4.19	40.87	
15:27:23	15.57	3.48	17.53	14.64	4.14	47.88	
15:27:33	15.60	3.47	18.40	14.63	4.10	53.80	
15:27:43	15.59	3.47	18.58	14.63	4.06	60.26	
15:27:53	15.59	3.49	18.11	14.63	4.03	69.01	
15:28:03	15.58	3.52	18.22	14.64	4.00	73.44	
15:28:13	15.56	3.55	17.15	14.65	3.97	75.01	
15:28:23	15.54	3.57	16.96	14.66	3.95	75.82	
15:28:33	15.53	3.58	16.30	14.67	3.94	74.63	
15:28:43	15.49	3.57	16.06	14.69	3.95	70.96	
15:28:53	15.51	3.55	20.50	14.71	3.98	66.87	
15:29:03	15.49	3.56	25.18	14.73	4.01	63.74	
15:29:13	15.50	3.56	27.62	14.71	4.07	62.74	
15:29:23	15.50	3.54	28.84	14.71	4.12	62.98	
15:29:33	15.49	3.49	29.67	14.69	4.14	67.41	
15:29:43	15.47	3.46	31.12	14.68	4.18	75.74	
15:29:53	15.47	3.44	31.68	14.67	4.23	80.07	
average	15.53	3.45	60.02	14.63	4.16	78.27	Test 26
minimum	15.00	2.94	13.10	14.35	3.49	37.46	
maximum	15.87	4.19	278.18	15.03	4.56	231.51	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
8:30:16	15.72	2.45	392.80	15.28	3.24	1228.33	Test 27
8:30:36	15.72	2.44	357.03	15.29	3.29	1228.34	
8:30:56	15.69	2.44	352.86	15.30	3.34	1228.34	
8:31:16	15.70	2.45	399.81	15.27	3.40	1228.36	
8:31:36	15.67	2.46	409.24	15.26	3.44	1228.33	
8:31:56	15.65	2.45	519.67	15.24	3.52	1228.33	
8:32:16	15.65	2.38	789.07	15.19	3.68	1131.38	
8:32:36	15.63	2.39	888.12	15.15	3.78	1000.80	
8:32:56	15.60	2.45	756.16	15.07	3.79	917.96	
8:33:16	15.61	2.51	558.09	15.01	3.84	809.49	
8:33:36	15.61	2.57	400.08	14.97	3.93	680.68	
8:33:56	15.60	2.63	314.14	14.97	4.02	556.08	
8:34:16	15.59	2.65	246.13	14.91	4.10	478.87	
8:34:36	15.56	2.63	212.07	14.89	4.11	459.50	
8:34:56	15.56	2.61	192.99	14.86	4.06	478.31	
8:35:16	15.58	2.57	245.78	14.83	3.99	522.17	
8:35:36	15.59	2.54	313.02	14.85	3.89	596.86	
8:35:56	15.59	2.57	288.84	14.87	3.81	704.97	
8:36:16	15.59	2.62	230.33	14.87	3.78	743.47	
8:36:36	15.57	2.68	178.67	14.88	3.78	715.32	
8:36:56	15.56	2.67	165.57	14.91	3.80	694.34	
8:37:16	15.55	2.65	185.49	14.88	3.83	633.50	
8:37:36	15.56	2.65	224.95	14.91	3.86	606.66	
8:37:56	15.53	2.63	256.44	14.91	3.88	609.23	
8:38:16	15.55	2.62	260.84	14.89	3.84	696.98	
8:38:36	15.54	2.57	324.65	14.91	3.76	776.36	
8:38:56	15.57	2.49	420.93	14.92	3.69	812.80	
8:39:16	15.59	2.50	423.78	14.95	3.66	798.33	
8:39:36	15.58	2.50	397.84	14.96	3.62	786.47	
8:39:56	15.60	2.50	358.96	14.98	3.58	835.70	
8:40:16	15.62	2.45	397.49	15.02	3.55	947.28	
8:40:36	15.63	2.36	580.99	15.05	3.51	1087.68	
8:40:56	15.65	2.32	724.96	15.11	3.48	1228.22	
8:41:16	15.66	2.29	780.38	15.15	3.46	1228.27	
8:41:36	15.67	2.28	776.94	15.17	3.48	1228.31	
8:41:56	15.69	2.28	729.03	15.16	3.45	1228.30	
8:42:16	15.72	2.25	699.92	15.14	3.40	1228.30	
8:42:36	15.74	2.25	709.16	15.22	3.35	1228.31	
8:42:56	15.74	2.21	880.26	15.22	3.35	1228.32	
8:43:16	15.77	2.16	1175.03	15.24	3.36	1228.31	
8:43:36	15.79	2.10	1218.38	15.25	3.32	1228.29	
8:43:56	15.80	2.11	1218.37	15.26	3.29	1228.29	
8:44:16	15.82	2.15	1218.39	15.27	3.26	1228.31	
8:44:36	15.80	2.22	991.39	15.28	3.26	1228.32	
8:44:56	15.81	2.31	742.59	15.31	3.25	1228.31	
8:45:16	15.74	2.39	600.38	15.31	3.27	1228.30	
8:45:36	15.71	2.40	586.08	15.32	3.31	1228.29	
8:45:56	15.68	2.39	639.94	15.31	3.35	1228.28	
8:46:16	15.67	2.40	625.80	15.30	3.43	1228.31	
8:46:36	15.68	2.40	658.36	15.26	3.54	1228.28	
8:46:56	15.66	2.42	692.69	15.23	3.66	1192.24	
8:47:16	15.68	2.48	592.35	15.15	3.75	1036.15	
8:47:36	15.67	2.53	474.28	15.08	3.79	894.61	
8:47:56	15.68	2.58	367.80	15.03	3.82	782.97	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
8:48:16	15.62	2.63	289.61	15.02	3.86	739.42
8:48:36	15.61	2.61	291.53	14.98	3.86	718.73
8:48:56	15.60	2.58	325.88	14.95	3.87	694.97
8:49:16	15.58	2.53	380.41	14.93	3.88	691.61
8:49:36	15.57	2.50	418.21	14.86	3.93	657.52
8:49:56	15.59	2.48	489.02	14.83	3.93	656.82
8:50:16	15.59	2.43	656.47	14.87	3.89	682.86
8:50:36	15.59	2.38	866.73	14.89	3.85	707.18
8:50:56	15.60	2.36	978.00	14.86	3.86	688.81
8:51:16	15.61	2.40	948.01	14.88	3.84	692.59
8:51:36	15.62	2.42	987.53	14.91	3.76	789.76
8:51:56	15.63	2.39	1101.71	14.92	3.66	895.28
8:52:16	15.64	2.39	1146.22	14.94	3.62	924.13
8:52:36	15.63	2.42	1014.49	14.95	3.65	829.60
8:52:56	15.62	2.43	789.35	14.97	3.71	724.19
8:53:16	15.61	2.42	666.31	14.93	3.73	635.44
8:53:36	15.64	2.42	556.60	14.98	3.72	613.51
8:53:56	15.66	2.40	546.76	14.97	3.67	683.87
8:54:16	15.66	2.33	695.92	14.99	3.58	810.90
8:54:36	15.68	2.27	799.21	15.03	3.49	933.46
8:54:56	15.69	2.29	716.18	15.10	3.42	1061.11
8:55:16	15.67	2.28	655.59	15.18	3.40	1157.56
8:55:36	15.72	2.24	734.30	15.16	3.45	1118.38
8:55:56	15.73	2.20	892.83	15.15	3.48	1023.47
8:56:16	15.75	2.18	949.63	15.15	3.46	975.47
8:56:36	15.79	2.12	1217.31	15.16	3.42	964.40
8:56:56	15.80	2.07	1218.36	15.19	3.37	1054.25
8:57:16	15.82	2.08	1218.36	15.20	3.38	1070.81
8:57:36	15.83	2.10	1218.38	15.24	3.38	1074.32
8:57:56	15.82	2.12	1218.36	15.22	3.37	1116.87
8:58:16	15.81	2.16	1218.37	15.29	3.38	1157.39
8:58:36	15.77	2.24	1218.36	15.26	3.40	1140.43
8:58:56	15.73	2.34	915.62	15.23	3.42	1120.69
8:59:16	15.73	2.39	693.25	15.22	3.47	1092.21
8:59:36	15.73	2.40	604.26	15.21	3.54	999.31
8:59:56	15.69	2.39	634.74	15.19	3.62	879.55
9:00:16	15.70	2.32	975.66	15.14	3.66	840.14
9:00:36	15.69	2.28	1218.28	15.12	3.62	898.68
9:00:56	15.70	2.31	1171.76	15.10	3.64	923.08
9:01:16	15.65	2.36	939.14	15.09	3.67	902.62
9:01:36	15.66	2.36	759.37	15.08	3.68	889.48
9:01:56	15.65	2.36	628.29	15.05	3.73	842.60
9:02:16	15.69	2.39	498.90	15.02	3.70	885.49
9:02:36	15.69	2.39	395.61	15.04	3.67	883.95
9:02:56	15.66	2.35	349.07	15.02	3.70	790.51
9:03:16	15.70	2.27	462.05	15.01	3.72	709.12
9:03:36	15.71	2.18	793.02	14.99	3.69	684.65
9:03:56	15.73	2.13	1098.97	15.01	3.65	691.21
9:04:16	15.76	2.09	1218.30	15.00	3.66	682.10
9:04:36	15.80	2.04	1218.33	14.97	3.70	634.06
9:04:56	15.80	2.07	1218.34	14.97	3.65	632.96
9:05:16	15.81	2.15	1218.34	14.97	3.62	637.68
9:05:36	15.77	2.20	1218.36	15.01	3.63	628.84
9:05:56	15.77	2.23	1218.36	15.07	3.67	595.78

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
9:06:16	15.75	2.25	1170.36	15.09	3.70	576.45	
9:06:36	15.73	2.27	1012.73	15.00	3.68	631.26	
9:06:56	15.73	2.33	815.94	15.05	3.64	736.29	
9:07:16	15.73	2.34	698.27	15.05	3.64	774.60	
9:07:36	15.70	2.34	631.00	15.06	3.62	798.53	
9:07:56	15.72	2.38	534.42	15.05	3.60	906.67	
9:08:16	15.72	2.41	472.79	15.06	3.61	977.42	
9:08:36	15.71	2.38	495.91	15.07	3.59	1063.49	
9:08:56	15.73	2.33	506.11	15.08	3.53	1065.15	
9:09:16	15.73	2.31	460.69	15.09	3.48	1020.67	
9:09:36	15.73	2.35	370.70	15.13	3.44	1054.12	
9:09:56	15.73	2.34	404.52	15.13	3.49	1074.60	
9:10:16	15.71	2.24	742.55	15.13	3.59	996.81	
9:10:36	15.71	2.19	957.88	15.11	3.66	897.78	
9:10:56	15.75	2.19	930.23	15.07	3.71	893.91	
9:11:16	15.76	2.13	1022.82	15.05	3.72	985.31	
9:11:36	15.81	2.08	1218.31	15.06	3.71	1051.33	
9:11:56	15.80	2.09	1218.34	15.03	3.68	1112.47	
9:12:16	15.80	2.11	1150.41	15.05	3.65	1161.92	
9:12:36	15.79	2.07	1208.94	15.06	3.61	1191.49	
9:12:56	15.81	2.00	1218.34	15.02	3.60	1220.01	
9:13:16	15.82	1.95	1218.34	15.05	3.63	1212.09	
9:13:36	15.82	1.94	1218.34	15.04	3.67	1177.05	
9:13:56	15.83	1.94	1218.35	15.00	3.73	1130.46	
9:14:16	15.84	1.95	1218.36	14.97	3.77	1102.79	
9:14:36	15.85	2.03	1218.36	14.95	3.75	1040.69	
9:14:56	15.82	2.17	1126.29	14.93	3.67	999.30	
average	15.69	2.34	736.86	15.07	3.63	924.81	Test 27
minimum	15.53	1.94	165.57	14.83	3.24	459.50	
maximum	15.85	2.68	1218.39	15.32	4.11	1228.36	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
13:30:16	15.19	2.54	471.22	14.90	3.54	1005.86	Test 28
13:30:36	15.18	2.48	606.76	14.92	3.45	1077.69	
13:30:56	15.19	2.47	784.05	14.95	3.44	1082.50	
13:31:16	15.19	2.59	701.86	14.99	3.44	1050.56	
13:31:36	15.16	2.74	515.08	15.00	3.44	1051.74	
13:31:56	15.13	2.78	393.25	15.03	3.42	1140.25	
13:32:16	15.11	2.77	355.61	15.03	3.35	1227.77	
13:32:36	15.09	2.80	297.89	15.06	3.32	1227.81	
13:32:56	15.05	2.79	243.55	15.05	3.31	1227.80	
13:33:16	15.07	2.79	204.88	15.06	3.26	1227.84	
13:33:36	15.05	2.79	210.01	15.10	3.17	1227.82	
13:33:56	15.04	2.72	348.49	15.14	3.14	1227.80	
13:34:16	15.02	2.61	654.33	15.17	3.20	1227.82	
13:34:36	15.04	2.51	948.31	15.15	3.27	1227.81	
13:34:56	15.08	2.47	1043.95	15.14	3.31	1227.80	
13:35:16	15.09	2.43	999.40	15.13	3.29	1227.80	
13:35:36	15.14	2.41	948.96	15.12	3.27	1227.82	
13:35:56	15.16	2.43	932.37	15.12	3.29	1227.82	
13:36:16	15.17	2.48	842.95	15.13	3.34	1227.81	
13:36:36	15.16	2.54	718.22	15.14	3.36	1200.08	
13:36:56	15.16	2.58	617.08	15.12	3.35	1183.16	
13:37:16	15.17	2.62	511.44	15.10	3.36	1227.79	
13:37:36	15.13	2.62	464.47	15.07	3.38	1227.79	
13:37:56	15.16	2.57	501.14	15.10	3.45	1173.24	
13:38:16	15.16	2.53	555.91	15.05	3.48	1044.51	
13:38:36	15.16	2.56	501.96	15.01	3.49	975.58	
13:38:56	15.17	2.64	413.33	14.99	3.51	962.85	
13:39:16	15.15	2.73	337.58	14.97	3.50	957.08	
13:39:36	15.12	2.79	332.43	14.98	3.45	996.49	
13:39:56	15.09	2.83	311.25	14.99	3.43	1029.84	
13:40:16	15.06	2.80	270.73	15.00	3.45	1053.58	
13:40:36	15.05	2.74	344.08	14.99	3.53	1016.21	
13:40:56	15.04	2.68	492.24	14.93	3.63	889.35	
13:41:16	15.03	2.68	540.05	14.91	3.71	795.09	
13:41:36	15.03	2.72	511.86	14.89	3.73	829.74	
13:41:56	15.03	2.82	442.72	14.85	3.68	982.52	
13:42:16	15.01	2.85	415.00	14.86	3.65	1081.85	
13:42:36	14.98	2.82	379.70	14.86	3.64	1118.00	
13:42:56	14.97	2.85	297.92	14.86	3.62	1058.98	
13:43:16	14.96	2.85	243.01	14.88	3.61	1007.86	
13:43:36	14.96	2.82	253.97	14.87	3.63	957.76	
13:43:56	14.99	2.80	311.60	14.87	3.64	898.98	
13:44:16	14.97	2.82	308.97	14.86	3.60	1006.38	
13:44:36	14.97	2.84	287.99	14.90	3.59	1148.73	
13:44:56	14.96	2.85	260.14	14.93	3.58	1171.29	
13:45:16	14.96	2.86	217.57	14.91	3.60	1135.09	
13:45:36	14.96	2.91	182.44	14.87	3.64	1118.64	
13:45:56	14.95	2.95	213.36	14.88	3.64	1142.65	
13:46:16	14.91	2.94	278.56	14.92	3.61	1180.68	
13:46:36	14.91	2.90	312.06	14.93	3.53	1169.86	
13:46:56	14.90	2.88	277.15	14.89	3.45	1123.52	
13:47:16	14.87	2.89	226.73	14.92	3.41	1114.38	
13:47:36	14.91	2.93	199.32	15.01	3.37	1169.09	
13:47:56	14.89	2.95	185.23	15.01	3.33	1227.77	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
13:48:16	14.89	2.94	167.74	15.03	3.35	1227.77
13:48:36	14.89	2.90	151.72	15.02	3.46	1227.77
13:48:56	14.89	2.94	143.84	15.02	3.50	1216.46
13:49:16	14.88	2.96	151.32	14.99	3.39	1227.79
13:49:36	14.88	2.94	162.96	15.03	3.36	1227.81
13:49:56	14.88	2.88	247.54	15.02	3.45	1227.80
13:50:16	14.90	2.83	310.93	14.98	3.52	1227.78
13:50:36	14.89	2.77	306.79	14.97	3.54	1227.79
13:50:56	14.93	2.74	269.31	14.96	3.56	1226.55
13:51:16	14.94	2.76	228.60	14.94	3.59	1141.85
13:51:36	14.96	2.81	190.53	14.92	3.59	1097.06
13:51:56	14.96	2.81	174.51	14.90	3.60	1086.19
13:52:16	14.96	2.85	182.45	14.89	3.64	1088.47
13:52:36	14.94	2.90	159.66	14.86	3.66	1082.89
13:52:56	14.92	2.94	133.85	14.86	3.66	1047.26
13:53:16	14.90	2.94	142.75	14.86	3.64	981.92
13:53:36	14.90	2.94	149.68	14.84	3.65	945.11
13:53:56	14.89	2.92	188.58	14.84	3.64	938.10
13:54:16	14.89	2.93	210.70	14.85	3.66	929.77
13:54:36	14.89	2.95	195.79	14.85	3.72	928.11
13:54:56	14.89	2.94	161.60	14.82	3.74	930.34
13:55:16	14.89	2.94	125.76	14.82	3.75	942.93
13:55:36	14.90	2.94	108.52	14.80	3.71	1058.06
13:55:56	14.88	2.97	96.87	14.82	3.69	1090.85
13:56:16	14.86	3.04	94.78	14.81	3.67	1066.93
13:56:36	14.84	3.09	96.47	14.81	3.59	1121.87
13:56:56	14.81	3.09	129.42	14.84	3.59	1131.92
13:57:16	14.79	3.05	233.12	14.84	3.67	1050.15
13:57:36	14.79	2.99	308.32	14.81	3.71	981.70
13:57:56	14.78	2.92	351.44	14.81	3.77	868.52
13:58:16	14.62	2.86	365.41	14.79	3.81	774.34
13:58:36	14.62	2.83	438.11	14.77	3.79	761.32
13:58:56	14.66	2.82	486.61	14.77	3.74	808.27
13:59:16	14.66	2.85	530.46	14.79	3.72	867.06
13:59:36	14.67	2.86	500.50	14.77	3.75	880.70
13:59:56	14.68	2.89	418.47	14.80	3.73	894.84
14:00:16	14.68	2.92	331.45	14.80	3.66	954.85
14:00:36	14.68	2.98	263.36	14.84	3.55	1078.14
14:00:56	14.72	2.99	283.97	14.90	3.43	1176.39
14:01:16	14.77	2.99	328.11	14.92	3.41	1134.52
14:01:36	14.78	2.99	309.91	14.94	3.47	993.21
14:01:56	14.76	2.98	279.32	14.93	3.52	857.83
14:02:16	14.72	2.96	251.44	14.95	3.55	762.86
14:02:36	14.74	2.92	303.22	14.91	3.59	710.27
14:02:56	14.77	2.92	340.71	14.91	3.62	688.76
14:03:16	14.70	2.96	309.97	14.91	3.61	727.42
14:03:36	14.69	3.00	280.33	14.92	3.56	779.97
14:03:56	14.65	3.04	221.40	14.90	3.50	823.07
14:04:16	14.62	3.05	166.78	14.93	3.49	839.33
14:04:36	14.62	3.04	153.29	14.92	3.54	774.58
14:04:56	14.65	3.01	171.60	14.92	3.63	686.46
14:05:16	14.65	3.01	191.51	14.87	3.69	628.49
14:05:36	14.66	3.01	188.38	14.89	3.62	708.45
14:05:56	14.66	3.01	184.32	14.91	3.53	831.01

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:06:16	14.68	2.99	237.53	14.92	3.49	890.67	
14:06:36	14.72	2.93	379.29	14.92	3.50	872.21	
14:06:56	14.66	2.88	491.48	14.92	3.54	792.70	
14:07:16	14.67	2.83	596.26	14.94	3.59	731.72	
14:07:36	14.71	2.81	686.79	14.89	3.63	670.75	
14:07:56	14.63	2.81	653.87	14.91	3.69	616.05	
14:08:16	14.64	2.83	549.51	14.91	3.73	602.22	
14:08:36	14.69	2.85	457.56	14.88	3.73	594.76	
14:08:56	14.72	2.87	370.36	14.83	3.71	634.87	
14:09:16	14.75	2.92	274.76	14.81	3.73	654.67	
14:09:36	14.78	2.96	198.30	14.84	3.78	608.07	
14:09:56	14.79	2.98	158.64	14.85	3.79	590.55	
14:10:16	14.72	2.98	139.27	14.82	3.79	588.32	
14:10:36	14.67	2.97	151.99	14.83	3.79	561.17	
14:10:56	14.68	2.95	182.47	14.80	3.78	495.11	
14:11:16	14.68	2.87	349.01	14.84	3.77	436.11	
14:11:36	14.69	2.82	441.92	14.81	3.82	376.35	
14:11:56	14.68	2.80	458.71	14.83	3.94	337.98	
14:12:16	14.69	2.77	418.51	14.77	4.01	346.14	
14:12:36	14.73	2.79	340.72	14.73	3.99	388.57	
14:12:56	14.74	2.84	279.14	14.74	3.95	454.55	
14:13:16	14.72	2.92	234.00	14.71	3.93	503.96	
14:13:36	14.72	2.92	286.89	14.69	3.98	507.06	
14:13:56	14.71	2.85	422.59	14.66	3.99	524.23	
14:14:16	14.71	2.82	468.92	14.68	3.95	573.11	
14:14:36	14.72	2.86	416.72	14.61	3.89	654.49	
14:14:56	14.72	2.87	333.81	14.70	3.84	721.63	
average	14.88	2.84	348.69	14.91	3.58	949.36	Test 28
minimum	14.62	2.41	94.78	14.61	3.14	337.98	
maximum	15.19	3.09	1043.95	15.17	4.01	1227.84	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:45:16	14.61	2.88	370.86	14.61	4.00	773.66	Test 29
14:45:36	14.61	2.88	362.86	14.59	4.02	721.37	
14:45:56	14.61	2.86	363.63	14.57	4.03	679.78	
14:46:16	14.65	2.88	360.92	14.54	3.93	652.03	
14:46:36	14.64	2.89	383.57	14.58	3.87	659.10	
14:46:56	14.63	2.91	385.30	14.60	3.90	683.09	
14:47:16	14.62	2.91	380.69	14.61	3.93	675.33	
14:47:36	14.64	2.86	480.65	14.54	3.91	647.43	
14:47:56	14.66	2.83	544.74	14.60	3.88	662.62	
14:48:16	14.64	2.80	529.62	14.60	3.93	674.89	
14:48:36	14.68	2.81	461.74	14.57	3.99	653.74	
14:48:56	14.68	2.88	358.75	14.57	3.93	637.00	
14:49:16	14.68	2.93	300.12	14.59	3.87	673.09	
14:49:36	14.62	3.00	257.95	14.67	3.84	707.23	
14:49:56	14.60	3.02	283.19	14.66	3.89	696.96	
14:50:16	14.60	2.99	349.29	14.66	3.93	700.05	
14:50:36	14.59	3.01	312.43	14.62	3.90	714.90	
14:50:56	14.57	3.03	309.13	14.59	3.93	664.52	
14:51:16	14.55	3.00	374.16	14.57	3.99	658.28	
14:51:36	14.55	3.02	391.31	14.56	3.99	641.35	
14:51:56	14.54	3.02	361.17	14.56	3.97	634.05	
14:52:16	14.54	3.01	342.60	14.62	3.89	698.66	
14:52:36	14.59	2.92	520.73	14.63	3.81	674.64	
14:52:56	14.59	2.81	773.09	14.64	3.85	620.86	
14:53:16	14.60	2.82	740.42	14.67	3.82	614.19	
14:53:36	14.63	2.88	606.31	14.68	3.74	622.99	
14:53:56	14.63	3.00	435.76	14.73	3.70	603.62	
14:54:16	14.61	3.03	309.48	14.73	3.67	681.60	
14:54:36	14.59	3.00	252.30	14.81	3.55	822.93	
14:54:56	14.59	2.95	255.18	14.83	3.50	810.70	
14:55:16	14.60	2.97	269.25	14.87	3.48	801.41	
14:55:36	14.59	2.98	229.55	14.89	3.53	836.43	
14:55:56	14.59	2.95	229.30	14.89	3.63	871.66	
14:56:16	14.59	2.92	331.39	14.86	3.61	905.62	
14:56:36	14.62	2.85	524.62	14.85	3.65	784.46	
14:56:56	14.62	2.83	511.62	14.87	3.66	758.43	
14:57:16	14.64	2.87	421.00	14.84	3.68	791.45	
14:57:36	14.64	2.89	375.39	14.83	3.71	730.43	
14:57:56	14.61	2.87	348.82	14.77	3.78	673.30	
14:58:16	14.63	2.84	432.48	14.73	3.84	640.25	
14:58:36	14.64	2.80	506.99	14.70	3.76	663.33	
14:58:56	14.66	2.77	528.68	14.80	3.65	776.23	
14:59:16	14.66	2.75	487.45	14.82	3.60	932.04	
14:59:36	14.68	2.79	429.89	14.81	3.68	982.56	
14:59:56	14.68	2.77	479.38	14.78	3.76	924.90	
15:00:16	14.68	2.69	719.65	14.76	3.81	809.16	
15:00:36	14.65	2.66	916.61	14.75	3.87	727.25	
15:00:56	14.64	2.70	894.85	14.72	3.89	729.58	
15:01:16	14.67	2.74	794.18	14.70	3.90	740.41	
15:01:36	14.64	2.78	630.73	14.67	3.86	796.05	
15:01:56	14.66	2.82	471.24	14.69	3.81	837.18	
15:02:16	14.65	2.88	343.90	14.69	3.78	975.89	
15:02:36	14.64	2.91	257.45	14.71	3.73	1091.08	
15:02:56	14.62	2.92	236.78	14.75	3.70	1030.89	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:03:16	14.63	2.88	370.12	14.74	3.67	880.85	
15:03:36	14.62	2.86	496.58	14.77	3.66	790.14	
15:03:56	14.62	2.83	486.52	14.76	3.73	682.16	
15:04:16	14.63	2.85	403.81	14.74	3.84	600.59	
15:04:36	14.62	2.93	292.18	14.71	3.91	692.34	
15:04:56	14.60	2.95	258.10	14.67	3.91	780.25	
15:05:16	14.58	2.92	347.30	14.69	3.90	714.68	
15:05:36	14.58	2.91	366.29	14.68	3.86	692.79	
15:05:56	14.58	2.87	377.53	14.67	3.84	749.92	
15:06:16	14.59	2.84	395.78	14.67	3.84	696.48	
15:06:36	14.60	2.81	527.74	14.67	3.87	694.38	
15:06:56	14.59	2.77	671.48	14.67	3.87	751.21	
15:07:16	14.60	2.70	773.20	14.67	3.92	732.33	
15:07:36	14.62	2.68	785.41	14.63	3.93	764.38	
15:07:56	14.64	2.71	798.83	14.62	3.91	777.46	
15:08:16	14.63	2.74	703.38	14.64	3.88	756.62	
15:08:36	14.64	2.74	617.65	14.67	3.86	721.43	
15:08:56	14.66	2.76	580.01	14.61	3.86	658.00	
15:09:16	14.67	2.77	555.75	14.62	3.87	641.39	
15:09:36	14.65	2.80	504.48	14.67	3.87	757.49	
15:09:56	14.65	2.80	431.43	14.66	3.82	902.08	
15:10:16	14.65	2.81	356.20	14.66	3.85	892.23	
15:10:36	14.66	2.79	316.72	14.68	3.89	818.40	
15:10:56	14.64	2.79	362.74	14.66	3.92	726.79	
15:11:16	14.64	2.80	423.71	14.59	3.96	644.52	
15:11:36	14.65	2.77	457.07	14.65	3.94	599.01	
15:11:56	14.60	2.74	510.44	14.65	3.91	565.78	
15:12:16	14.65	2.70	590.14	14.67	3.89	581.15	
15:12:36	14.68	2.70	578.48	14.60	3.84	655.92	
15:12:56	14.70	2.74	491.26	14.67	3.84	696.95	
15:13:16	14.70	2.79	449.70	14.66	3.84	720.59	
15:13:36	14.68	2.82	482.54	14.67	3.83	790.33	
15:13:56	14.67	2.81	497.35	14.65	3.86	804.69	
15:14:16	14.68	2.83	454.13	14.68	3.77	712.71	
15:14:36	14.67	2.86	401.33	14.68	3.71	639.47	
15:14:56	14.66	2.80	531.09	14.71	3.73	630.31	
average	14.63	2.85	457.51	14.69	3.82	734.29	Test 29
minimum	14.54	2.66	229.30	14.54	3.48	565.78	
maximum	14.70	3.03	916.61	14.89	4.03	1091.08	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
7:30:00	15.20	3.35	392.78	15.65	2.76	1228.10	Test 30
7:30:20	15.24	3.43	341.63	15.68	2.78	1228.12	
7:30:40	15.29	3.45	291.34	15.68	2.85	1228.09	
7:31:00	15.30	3.45	258.38	15.68	2.94	1222.66	
7:31:20	15.31	3.44	229.94	15.62	3.07	939.42	
7:31:40	15.33	3.41	217.18	15.45	3.13	846.84	
7:32:00	15.38	3.37	214.56	15.46	3.05	1048.78	
7:32:20	15.41	3.34	216.71	15.49	2.99	1206.94	
7:32:40	15.42	3.31	224.40	15.54	3.03	1200.21	
7:33:00	15.45	3.31	262.66	15.49	3.10	1082.53	
7:33:20	15.46	3.32	278.93	15.48	3.03	1106.25	
7:33:40	15.47	3.31	277.68	15.56	2.97	1193.68	
7:34:00	15.50	3.30	271.90	15.58	2.94	1228.07	
7:34:20	15.51	3.29	272.54	15.60	2.93	1228.10	
7:34:40	15.52	3.32	272.44	15.60	2.94	1228.10	
7:35:00	15.52	3.35	274.90	15.61	2.94	1228.12	
7:35:20	15.51	3.36	292.00	15.61	2.95	1228.12	
7:35:40	15.50	3.35	313.02	15.62	2.91	1228.12	
7:36:00	15.51	3.33	317.51	15.61	2.84	1228.10	
7:36:20	15.46	3.28	323.34	15.60	2.78	1228.10	
7:36:40	15.39	3.23	334.77	15.62	2.77	1228.11	
7:37:00	15.52	3.20	335.46	15.66	2.87	1228.10	
7:37:20	15.63	3.17	333.35	15.61	2.96	1228.12	
7:37:40	15.65	3.16	318.27	15.62	2.99	1222.15	
7:38:00	15.69	3.18	281.42	15.57	2.99	1084.96	
7:38:20	15.68	3.20	242.15	15.61	2.92	1152.05	
7:38:40	15.69	3.24	218.35	15.63	2.84	1228.08	
7:39:00	15.69	3.26	212.44	15.65	2.81	1228.07	
7:39:20	15.70	3.26	233.97	15.65	2.87	1228.10	
7:39:40	15.69	3.23	250.30	15.64	2.90	1228.11	
7:40:00	15.67	3.19	257.17	15.63	2.84	1228.13	
7:40:20	15.69	3.16	259.41	15.62	2.73	1228.13	
7:40:40	15.71	3.18	277.64	15.67	2.63	1228.11	
7:41:00	15.70	3.23	324.92	15.69	2.56	1228.12	
7:41:20	15.66	3.29	338.23	15.70	2.59	1228.10	
7:41:40	15.64	3.31	325.26	15.70	2.71	1228.08	
7:42:00	15.61	3.29	301.62	15.66	2.92	1228.09	
7:42:20	15.63	3.28	280.36	15.61	3.02	1228.09	
7:42:40	15.67	3.24	273.41	15.60	2.94	1228.09	
7:43:00	15.69	3.18	300.23	15.60	2.83	1228.11	
7:43:20	15.68	3.09	375.40	15.60	2.88	1228.11	
7:43:40	15.72	3.01	458.30	15.59	2.86	1228.12	
7:44:00	15.75	2.98	467.57	15.62	2.77	1228.11	
7:44:20	15.77	2.99	446.03	15.61	2.80	1228.11	
7:44:40	15.76	3.03	398.06	15.60	2.89	1228.09	
7:45:00	15.76	3.06	354.38	15.59	2.85	1228.11	
7:45:20	15.81	3.06	326.02	15.58	2.79	1228.12	
7:45:40	15.83	3.06	298.71	15.60	2.70	1228.13	
7:46:00	15.81	3.11	258.81	15.61	2.65	1228.11	
7:46:20	15.79	3.17	230.47	15.61	2.67	1228.10	
7:46:40	15.79	3.15	246.34	15.66	2.70	1228.10	
7:47:00	15.75	3.07	297.63	15.66	2.78	1228.10	
7:47:20	15.79	3.01	335.98	15.64	2.79	1228.10	
7:47:40	15.80	3.00	355.04	15.66	2.70	1228.10	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
7:48:00	15.81	3.02	345.34	15.67	2.69	1228.12	
7:48:20	15.82	3.03	320.33	15.68	2.82	1228.13	
7:48:40	15.84	3.02	318.69	15.63	2.78	1228.10	
7:49:00	15.83	3.06	307.38	15.65	2.62	1228.10	
7:49:20	15.85	3.11	284.47	15.68	2.47	1228.10	
7:49:40	15.82	3.15	263.95	15.70	2.49	1228.12	
7:50:00	15.80	3.17	241.08	15.71	2.64	1228.12	
7:50:20	15.80	3.12	245.35	15.66	2.78	1228.11	
7:50:40	15.83	3.07	238.56	15.63	2.90	1228.12	
7:51:00	15.85	3.03	228.81	15.59	3.06	1228.13	
7:51:20	15.87	2.98	244.61	15.52	3.22	1228.13	
7:51:40	15.90	2.95	263.39	15.45	3.17	1228.14	
7:52:00	15.93	2.95	272.31	15.45	2.99	1228.12	
7:52:20	15.92	2.97	279.23	15.50	2.80	1228.13	
7:52:40	15.93	2.98	268.87	15.52	2.68	1228.11	
7:53:00	15.93	2.98	255.91	15.58	2.70	1228.10	
7:53:20	15.95	2.96	244.25	15.60	2.80	1228.12	
7:53:40	15.95	2.96	235.61	15.58	2.87	1228.12	
7:54:00	15.95	2.99	223.80	15.60	2.81	1228.13	
7:54:20	15.94	3.05	214.33	15.61	2.75	1228.12	
7:54:40	15.95	3.05	210.19	15.61	2.77	1228.10	
7:55:00	15.93	3.07	200.39	15.60	2.81	1228.12	
7:55:20	15.91	3.10	189.48	15.61	2.80	1228.08	
7:55:40	15.90	3.12	181.29	15.60	2.83	1228.12	
7:56:00	15.89	3.13	174.16	15.61	2.74	1228.10	
7:56:20	15.88	3.14	168.02	15.61	2.69	1228.11	
7:56:40	15.88	3.14	160.27	15.62	2.69	1228.16	
7:57:00	15.87	3.13	156.84	15.63	2.72	1228.12	
7:57:20	15.88	3.05	203.13	15.63	2.83	1228.13	
7:57:40	15.90	2.97	252.72	15.62	2.94	1228.11	
7:58:00	15.95	2.93	265.09	15.57	2.91	1228.11	
7:58:20	15.96	2.96	243.82	15.58	2.81	1228.10	
7:58:40	15.97	2.99	221.38	15.62	2.65	1228.12	
7:59:00	15.96	2.98	213.77	15.66	2.72	1228.09	
7:59:20	15.99	2.95	226.89	15.65	2.80	1228.12	
7:59:40	15.99	2.94	244.49	15.63	2.76	1228.12	
average	15.72	3.15	274.44	15.61	2.83	1212.21	Test 30
minimum	15.20	2.93	156.84	15.45	2.47	846.84	
maximum	15.99	3.45	467.57	15.71	3.22	1228.16	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
12:15:00	15.08	4.02	113.97	15.80	2.32	1227.87	Test 31
12:15:20	15.05	4.04	111.94	15.79	2.34	1227.88	
12:15:40	15.05	3.99	113.69	15.78	2.36	1227.83	
12:16:00	15.07	3.93	112.72	15.78	2.40	1227.84	
12:16:20	15.06	3.91	110.07	15.76	2.43	1227.86	
12:16:40	15.09	3.87	122.50	15.74	2.44	1227.86	
12:17:00	15.12	3.80	156.03	15.68	2.45	1227.86	
12:17:20	15.15	3.74	257.47	15.67	2.47	1227.84	
12:17:40	15.16	3.75	290.24	15.66	2.46	1227.85	
12:18:00	15.15	3.79	251.05	15.65	2.51	1227.83	
12:18:20	15.12	3.85	201.18	15.65	2.52	1227.85	
12:18:40	15.15	3.86	172.18	15.63	2.51	1227.85	
12:19:00	15.14	3.85	175.24	15.64	2.49	1227.82	
12:19:20	15.11	3.79	188.00	15.52	2.40	1227.84	
12:19:40	15.13	3.75	209.97	15.58	2.35	1227.85	
12:20:00	15.16	3.73	239.14	15.60	2.36	1227.86	
12:20:20	15.17	3.73	227.65	15.59	2.39	1227.86	
12:20:40	15.20	3.73	214.57	15.59	2.43	1227.84	
12:21:00	15.20	3.78	192.61	15.57	2.41	1227.84	
12:21:20	15.16	3.83	165.28	15.60	2.32	1227.82	
12:21:40	15.15	3.84	144.69	15.59	2.28	1227.83	
12:22:00	15.15	3.84	137.24	15.61	2.25	1227.82	
12:22:20	15.17	3.84	122.45	15.65	2.26	1227.86	
12:22:40	15.17	3.86	106.10	15.68	2.31	1227.84	
12:23:00	15.15	3.85	104.78	15.67	2.39	1227.86	
12:23:20	15.16	3.84	109.26	15.67	2.41	1227.86	
12:23:40	15.16	3.84	111.33	15.65	2.48	1227.85	
12:24:00	15.17	3.86	112.71	15.62	2.52	1227.84	
12:24:20	15.17	3.85	107.90	15.59	2.50	1227.82	
12:24:40	15.15	3.85	108.70	15.60	2.42	1227.82	
12:25:00	15.13	3.85	120.39	15.66	2.35	1227.83	
12:25:20	15.12	3.80	159.64	15.69	2.29	1227.84	
12:25:40	15.14	3.76	189.65	15.68	2.28	1227.82	
12:26:00	15.13	3.72	216.48	15.64	2.35	1227.86	
12:26:20	15.19	3.71	230.74	15.56	2.43	1227.84	
12:26:40	15.19	3.71	231.12	15.57	2.43	1227.82	
12:27:00	15.19	3.74	235.87	15.61	2.45	1227.80	
12:27:20	15.19	3.75	217.46	15.58	2.44	1227.81	
12:27:40	15.18	3.77	185.78	15.58	2.37	1227.82	
12:28:00	15.18	3.77	161.04	15.63	2.36	1227.82	
12:28:20	15.19	3.78	142.79	15.57	2.40	1227.84	
12:28:40	15.18	3.74	146.55	15.58	2.35	1227.84	
12:29:00	15.21	3.72	159.09	15.57	2.35	1227.84	
12:29:20	15.21	3.74	164.70	15.56	2.37	1227.82	
12:29:40	15.21	3.76	176.87	15.56	2.40	1227.82	
12:30:00	15.21	3.77	181.61	15.55	2.53	1227.82	
12:30:20	15.19	3.81	173.45	15.53	2.64	1227.80	
12:30:40	15.19	3.81	181.75	15.50	2.61	1227.82	
12:31:00	15.17	3.84	196.16	15.50	2.64	1227.82	
12:31:20	15.14	3.93	180.07	15.52	2.62	1227.83	
12:31:40	15.10	4.01	151.21	15.59	2.50	1227.81	
12:32:00	15.07	4.03	130.21	15.69	2.44	1227.82	
12:32:20	15.04	4.00	125.22	15.73	2.53	1227.82	
12:32:40	15.06	3.95	127.06	15.68	2.62	1227.80	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
12:33:00	15.07	3.88	122.46	15.71	2.55	1227.79	
12:33:20	15.10	3.86	125.17	15.73	2.50	1227.82	
12:33:40	15.10	3.86	138.02	15.71	2.51	1227.82	
12:34:00	15.10	3.83	180.70	15.72	2.51	1227.84	
12:34:20	15.10	3.78	251.65	15.67	2.56	1227.83	
12:34:40	15.12	3.79	283.25	15.65	2.62	1227.82	
12:35:00	15.15	3.80	273.47	15.65	2.65	1227.81	
12:35:20	15.14	3.83	241.76	15.62	2.61	1227.82	
12:35:40	15.14	3.86	202.95	15.62	2.56	1227.83	
12:36:00	15.12	3.89	171.87	15.62	2.56	1227.82	
12:36:20	15.11	3.92	139.77	15.60	2.57	1227.82	
12:36:40	15.11	3.94	115.08	15.65	2.50	1227.84	
12:37:00	15.12	3.90	116.40	15.72	2.55	1227.81	
12:37:20	15.12	3.83	122.08	15.71	2.61	1227.82	
12:37:40	15.12	3.78	141.35	15.73	2.67	1227.81	
12:38:00	15.14	3.74	155.16	15.75	2.69	1144.12	
12:38:20	15.16	3.73	140.04	15.72	2.70	1139.79	
12:38:40	15.19	3.74	132.55	15.71	2.69	1227.80	
12:39:00	15.19	3.77	132.80	15.68	2.73	1227.79	
12:39:20	15.18	3.82	131.07	15.66	2.64	1227.82	
12:39:40	15.16	3.89	118.56	15.71	2.49	1227.82	
12:40:00	15.15	3.91	124.81	15.71	2.47	1227.82	
12:40:20	15.12	3.94	127.19	15.73	2.52	1227.81	
12:40:40	15.11	3.95	114.68	15.73	2.53	1227.79	
12:41:00	15.11	3.96	104.89	15.72	2.48	1227.79	
12:41:20	15.05	4.00	87.50	15.72	2.45	1227.80	
12:41:40	15.01	4.01	73.88	15.72	2.53	1227.80	
12:42:00	15.02	3.98	74.15	15.71	2.51	1227.80	
12:42:20	15.05	3.90	96.99	15.70	2.47	1227.84	
12:42:40	15.09	3.84	107.34	15.72	2.47	1227.83	
12:43:00	15.13	3.77	115.36	15.77	2.35	1227.80	
12:43:20	15.13	3.74	133.95	15.82	2.28	1227.79	
12:43:40	15.15	3.75	139.24	15.84	2.22	1227.79	
12:44:00	15.17	3.77	129.84	15.82	2.26	1227.81	
12:44:20	15.19	3.78	113.99	15.84	2.34	1227.79	
12:44:40	15.19	3.77	103.00	15.82	2.42	1227.80	
average	15.14	3.84	156.20	15.66	2.46	1225.92	Test 31
minimum	15.01	3.71	73.88	15.50	2.22	1139.79	
maximum	15.21	4.04	290.24	15.84	2.73	1227.88	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
14:30:00	15.12	4.47	15.79	15.12	3.66	216.59	Test 32
14:30:20	15.63	4.44	19.86	15.10	3.65	195.56	
14:30:40	15.86	4.40	22.28	15.10	3.53	246.77	
14:31:00	16.14	4.40	23.89	15.16	3.49	311.97	
14:31:20	16.21	4.37	24.18	15.13	3.48	597.16	
14:31:40	16.17	4.34	23.05	15.13	3.35	1074.64	
14:32:00	16.23	4.37	23.72	15.20	3.34	1195.86	
14:32:20	16.34	4.40	23.72	15.20	3.31	1150.28	
14:32:40	16.34	4.40	22.80	15.17	3.32	1073.06	
14:33:00	16.26	4.36	22.76	15.18	3.25	1113.87	
14:33:20	16.36	4.38	23.37	15.22	3.31	1072.66	
14:33:40	16.48	4.41	23.96	15.13	3.46	993.39	
14:34:00	16.53	4.44	23.08	15.17	3.38	1147.02	
14:34:20	16.61	4.46	24.58	15.21	3.33	1165.81	
14:34:40	16.78	4.45	25.02	15.16	3.37	910.51	
14:35:00	16.77	4.42	25.11	15.17	3.47	577.50	
14:35:20	16.87	4.38	25.38	15.13	3.58	370.54	
14:35:40	17.06	4.36	27.13	15.08	3.70	232.86	
14:36:00	17.36	4.35	29.68	15.07	3.74	155.21	
14:36:20	17.60	4.32	32.30	15.02	3.73	166.29	
14:36:40	18.09	4.31	35.71	14.99	3.77	252.72	
14:37:00	18.57	4.32	38.78	14.94	3.67	511.76	
14:37:20	18.79	4.32	40.10	14.98	3.65	589.44	
14:37:40	19.72	4.30	46.62	14.98	3.67	451.51	
14:38:00	19.89	4.33	47.49	14.97	3.76	290.76	
14:38:20	19.89	4.36	47.54	14.96	3.77	180.75	
14:38:40	19.86	4.39	48.89	14.96	3.81	120.99	
14:39:00	19.83	4.39	48.06	14.97	3.79	115.27	
14:39:20	19.85	4.39	48.55	14.94	3.80	110.96	
14:39:40	19.84	4.40	48.66	14.92	3.79	107.04	
14:40:00	19.83	4.42	48.56	14.94	3.71	135.67	
14:40:20	19.82	4.42	48.53	14.97	3.68	172.67	
14:40:40	19.82	4.42	48.59	14.95	3.62	162.80	
14:41:00	19.82	4.41	48.90	15.00	3.62	150.03	
14:41:20	19.82	4.44	49.67	15.03	3.57	206.54	
14:41:40	19.78	4.47	50.42	15.06	3.36	539.71	
14:42:00	19.79	4.44	50.77	15.17	3.22	895.66	
14:42:20	19.80	4.40	50.59	15.18	3.31	899.24	
14:42:40	19.84	4.40	49.91	15.10	3.45	627.70	
14:43:00	19.81	4.47	49.74	15.10	3.63	379.49	
14:43:20	19.77	4.54	50.01	15.06	3.75	228.86	
14:43:40	19.74	4.54	51.07	15.03	3.75	183.81	
14:44:00	19.73	4.49	52.14	15.00	3.80	158.68	
14:44:20	19.76	4.43	51.94	14.95	3.81	124.48	
14:44:40	19.80	4.33	52.31	14.97	3.73	147.52	
14:45:00	19.84	4.24	60.86	15.03	3.56	359.48	
14:45:20	19.88	4.18	66.35	14.99	3.48	625.07	
14:45:40	19.92	4.17	63.35	15.04	3.45	878.38	
14:46:00	19.92	4.17	58.37	15.06	3.36	1099.69	
14:46:20	19.93	4.20	54.11	15.06	3.36	1107.33	
14:46:40	19.94	4.22	52.00	15.08	3.40	1104.17	
14:47:00	19.92	4.25	51.19	15.13	3.34	1227.53	
14:47:20	19.91	4.29	51.02	15.13	3.34	1227.54	
14:47:40	19.90	4.27	50.17	15.15	3.37	1205.46	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
14:48:00	19.90	4.28	48.72	15.11	3.40	1124.95
14:48:20	19.91	4.29	47.52	15.12	3.39	1143.83
14:48:40	19.91	4.31	47.32	15.15	3.29	1137.91
14:49:00	19.89	4.39	46.71	15.13	3.38	816.71
14:49:20	19.83	4.48	46.65	15.11	3.50	510.64
14:49:40	19.78	4.56	46.76	15.11	3.58	347.85
14:50:00	19.71	4.59	46.27	15.11	3.55	311.62
14:50:20	19.72	4.58	46.49	15.12	3.50	321.03
14:50:40	19.57	4.58	45.73	15.16	3.43	325.03
14:51:00	19.59	4.59	46.79	15.17	3.32	298.68
14:51:20	19.66	4.60	48.34	15.20	3.34	348.15
14:51:40	19.66	4.61	48.70	15.21	3.24	533.28
14:52:00	19.64	4.63	49.36	15.24	3.28	508.41
14:52:20	19.61	4.66	49.18	15.24	3.34	429.86
14:52:40	19.58	4.66	49.65	15.25	3.33	456.87
14:53:00	19.59	4.64	49.93	15.21	3.39	421.48
14:53:20	19.58	4.66	49.51	15.23	3.22	787.64
14:53:40	19.59	4.70	49.38	15.30	3.08	1028.16
14:54:00	19.58	4.68	49.00	15.34	3.03	1119.28
14:54:20	19.58	4.64	48.74	15.41	3.02	1213.40
14:54:40	19.59	4.62	49.02	15.40	3.06	1227.52
14:55:00	19.62	4.63	48.51	15.39	3.08	1227.55
14:55:20	19.58	4.65	48.26	15.39	3.13	1198.92
14:55:40	19.58	4.66	48.36	15.40	3.15	1190.38
14:56:00	19.59	4.68	47.78	15.33	3.18	1007.08
14:56:20	19.56	4.71	47.15	15.32	3.22	728.48
14:56:40	19.55	4.73	47.12	15.31	3.28	500.69
14:57:00	19.54	4.73	46.99	15.29	3.49	318.33
14:57:20	19.53	4.68	47.84	15.18	3.58	257.39
14:57:40	19.54	4.66	47.89	15.16	3.55	246.60
14:58:00	19.56	4.64	48.83	15.13	3.61	212.85
14:58:20	19.58	4.61	49.58	15.12	3.63	181.76
14:58:40	19.60	4.59	50.86	15.11	3.65	187.22
14:59:00	19.59	4.62	51.76	15.04	3.68	201.07
14:59:20	19.58	4.64	52.92	15.07	3.55	320.84
14:59:40	19.56	4.65	54.27	15.04	3.32	634.74
15:00:00	19.56	4.65	55.33	15.17	3.24	960.30
15:00:20	19.57	4.66	56.23	15.19	3.15	1227.45
15:00:40	19.57	4.64	56.33	15.27	3.04	1227.50
15:01:00	19.57	4.62	56.33	15.35	2.93	1227.54
15:01:20	19.58	4.64	55.93	15.41	3.03	1216.92
15:01:40	19.56	4.65	55.60	15.39	3.05	1067.61
15:02:00	19.58	4.61	54.87	15.39	3.13	1148.75
15:02:20	19.59	4.59	52.52	15.30	3.27	1108.47
15:02:40	19.61	4.60	52.29	15.25	3.26	1086.52
15:03:00	19.60	4.65	54.00	15.24	3.25	1090.67
15:03:20	19.59	4.68	52.63	15.26	3.23	1061.91
15:03:40	19.58	4.70	51.77	15.20	3.36	870.63
15:04:00	19.55	4.75	50.82	15.20	3.36	694.59
15:04:20	19.53	4.80	49.63	15.20	3.37	562.64
15:04:40	19.51	4.83	49.19	15.25	3.28	597.05
15:05:00	19.48	4.82	48.97	15.26	3.34	546.12
15:05:20	19.51	4.80	48.52	15.19	3.39	597.17
15:05:40	19.50	4.79	48.68	15.22	3.30	774.81

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
15:06:00	19.52	4.77	48.35	15.21	3.25	821.01
15:06:20	19.50	4.76	47.57	15.26	3.34	585.49
15:06:40	19.52	4.74	48.00	15.20	3.44	389.92
15:07:00	19.53	4.69	52.01	15.22	3.41	346.48
15:07:20	19.54	4.66	53.26	15.24	3.32	389.63
15:07:40	19.55	4.68	52.43	15.27	3.31	445.07
15:08:00	19.55	4.67	52.06	15.26	3.20	607.31
15:08:20	19.56	4.69	52.29	15.29	3.27	561.12
15:08:40	19.56	4.68	52.31	15.27	3.40	414.86
15:09:00	19.55	4.66	52.92	15.23	3.52	326.44
15:09:20	19.60	4.60	53.36	15.15	3.61	285.75
15:09:40	19.60	4.57	53.49	15.13	3.53	334.47
15:10:00	19.63	4.58	54.20	15.16	3.38	379.64
15:10:20	19.61	4.62	54.08	15.26	3.22	483.44
15:10:40	19.60	4.64	55.50	15.30	3.15	773.43
15:11:00	19.59	4.64	55.37	15.35	3.02	1225.94
15:11:20	19.59	4.65	54.41	15.41	2.92	1227.49
15:11:40	19.59	4.65	54.47	15.40	3.16	1009.50
15:12:00	19.60	4.63	54.01	15.32	3.29	686.48
15:12:20	19.61	4.65	53.63	15.27	3.34	535.82
15:12:40	19.58	4.67	53.60	15.26	3.36	519.83
15:13:00	19.58	4.71	53.54	15.19	3.28	638.49
15:13:20	19.56	4.69	53.05	15.27	3.30	736.77
15:13:40	19.56	4.66	53.37	15.23	3.30	852.86
15:14:00	19.58	4.66	52.35	15.25	3.20	1009.22
15:14:20	19.57	4.71	52.05	15.28	3.14	967.61
15:14:40	19.54	4.73	52.16	15.30	3.22	742.88
15:15:00	19.51	4.74	51.57	15.28	3.29	535.71
15:15:20	19.51	4.75	51.00	15.31	3.32	375.39
15:15:40	19.53	4.72	50.12	15.30	3.33	291.50
15:16:00	19.54	4.70	49.56	15.27	3.26	547.44
15:16:20	19.56	4.67	48.73	15.31	3.14	883.27
15:16:40	19.59	4.59	48.89	15.39	3.06	1195.31
15:17:00	19.62	4.55	47.70	15.40	2.97	1227.49
15:17:20	19.64	4.52	47.67	15.44	2.96	1227.52
15:17:40	19.66	4.55	47.55	15.41	2.97	1227.54
15:18:00	19.62	4.62	47.33	15.45	3.06	1227.53
15:18:20	19.63	4.62	47.34	15.40	3.14	1216.96
15:18:40	19.65	4.55	47.43	15.35	3.17	1083.49
15:19:00	19.70	4.43	49.77	15.30	3.24	861.01
15:19:20	19.75	4.32	51.52	15.30	3.23	693.24
15:19:40	19.79	4.26	51.34	15.33	3.10	809.71
15:20:00	19.84	4.28	50.53	15.37	3.01	872.84
15:20:20	19.86	4.32	49.78	15.38	3.01	979.42
15:20:40	19.86	4.36	49.37	15.49	2.97	1196.46
15:21:00	19.83	4.38	50.76	15.44	3.00	1108.68
15:21:20	19.83	4.40	51.87	15.38	3.18	785.39
15:21:40	19.79	4.47	50.06	15.35	3.23	703.70
15:22:00	19.77	4.52	48.44	15.34	3.17	928.35
15:22:20	19.73	4.52	47.17	15.38	3.10	1135.21
15:22:40	19.75	4.51	46.16	15.40	3.13	1155.60
15:23:00	19.74	4.48	45.71	15.33	3.22	1036.90
15:23:20	19.77	4.47	46.04	15.32	3.10	1123.95
15:23:40	19.79	4.47	45.68	15.39	3.03	1219.05

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
15:24:00	19.77	4.48	45.60	15.44	3.05	1181.94	
15:24:20	19.76	4.47	44.69	15.42	3.08	1142.75	
15:24:40	19.78	4.43	44.79	15.42	3.08	1190.79	
15:25:00	19.81	4.41	44.64	15.43	3.11	1175.15	
15:25:20	19.79	4.43	45.12	15.41	3.11	1170.67	
15:25:40	19.80	4.44	44.84	15.35	3.15	1132.13	
15:26:00	19.80	4.44	45.10	15.35	3.18	1037.99	
15:26:20	19.80	4.38	47.69	15.31	3.13	1071.84	
15:26:40	19.81	4.30	49.33	15.32	3.21	998.38	
15:27:00	19.84	4.29	48.42	15.28	3.25	967.29	
15:27:20	19.85	4.31	46.94	15.28	3.19	1090.04	
15:27:40	19.86	4.34	46.34	15.33	3.08	1227.48	
15:28:00	19.83	4.36	46.40	15.36	3.02	1227.52	
15:28:20	19.81	4.35	47.80	15.38	2.96	1227.54	
15:28:40	19.83	4.37	48.18	15.43	2.97	1227.54	
15:29:00	19.81	4.39	50.40	15.43	3.02	1227.52	
15:29:20	19.80	4.42	48.40	15.42	3.11	1191.80	
15:29:40	19.80	4.44	47.13	15.39	3.15	1191.50	
average	19.31	4.52	47.08	15.22	3.33	744.80	Test 32
minimum	15.12	4.17	15.79	14.92	2.92	107.04	
maximum	19.94	4.83	66.35	15.49	3.81	1227.55	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
11:00:18	14.27	4.32	2.88	15.80	2.48	1228.32	Test 33
11:00:38	14.33	4.31	2.71	15.79	2.42	1228.35	
11:00:58	14.33	4.34	2.57	15.79	2.36	1228.34	
11:01:18	14.34	4.41	2.56	15.82	2.34	1228.36	
11:01:38	14.33	4.48	2.38	15.83	2.35	1228.35	
11:01:58	14.32	4.54	2.29	15.85	2.31	1228.34	
11:02:18	14.26	4.60	2.45	15.86	2.14	1228.37	
11:02:38	14.24	4.65	2.55	15.89	1.98	1228.34	
11:02:58	14.21	4.67	2.43	15.90	1.90	1228.33	
11:03:18	14.20	4.70	2.44	15.94	1.86	1228.32	
11:03:38	14.17	4.71	2.93	15.93	1.79	1228.35	
11:03:58	14.15	4.71	2.14	15.97	1.79	1228.35	
11:04:18	14.14	4.68	2.27	16.00	1.82	1228.35	
11:04:38	14.13	4.64	2.12	16.00	1.87	1228.35	
11:04:58	14.13	4.60	2.10	16.02	1.95	1228.35	
11:05:18	14.13	4.56	2.22	16.03	2.06	1228.33	
11:05:38	14.17	4.55	2.51	16.03	2.02	1228.34	
11:05:58	14.16	4.54	2.67	16.03	2.01	1228.34	
11:06:18	14.18	4.54	3.06	16.02	2.03	1228.33	
11:06:38	14.16	4.56	2.31	16.04	1.98	1228.36	
11:06:58	14.16	4.60	2.20	16.03	1.86	1228.33	
11:07:18	14.15	4.63	2.55	16.04	1.78	1228.35	
11:07:38	14.14	4.69	3.00	16.04	1.73	1228.34	
11:07:58	14.11	4.74	2.72	16.05	1.65	1228.33	
11:08:18	14.08	4.77	2.85	16.04	1.70	1228.32	
11:08:38	14.05	4.78	2.40	16.04	1.77	1228.31	
11:08:58	14.04	4.76	2.57	16.06	1.83	1228.33	
11:09:18	14.01	4.73	2.89	16.05	1.82	1228.31	
11:09:38	14.02	4.72	2.41	16.04	1.88	1228.33	
11:09:58	14.04	4.68	3.07	16.04	1.93	1228.35	
11:10:18	14.04	4.69	2.52	16.03	1.89	1228.34	
11:10:38	14.07	4.74	2.54	16.03	1.85	1228.35	
11:10:58	14.03	4.76	2.60	16.04	1.90	1228.33	
11:11:18	14.04	4.78	2.98	16.03	1.89	1228.33	
11:11:38	14.02	4.79	2.15	16.03	1.90	1228.32	
11:11:58	14.00	4.79	3.99	16.04	1.98	1228.31	
11:12:18	14.01	4.78	5.47	16.03	1.99	1228.33	
11:12:38	14.01	4.77	5.41	16.02	1.98	1228.36	
11:12:58	14.01	4.74	4.52	16.03	1.95	1228.33	
11:13:18	14.03	4.71	3.80	16.02	1.96	1228.37	
11:13:38	14.04	4.64	3.63	16.03	2.15	1228.33	
11:13:58	14.07	4.58	3.59	16.02	2.26	1228.33	
11:14:18	14.10	4.58	3.21	16.00	2.33	1228.33	
11:14:38	14.12	4.55	3.99	15.98	2.23	1228.33	
11:14:58	14.15	4.55	4.91	15.97	2.04	1228.34	
11:15:18	14.16	4.59	4.29	15.96	2.03	1228.35	
11:15:38	14.15	4.60	3.62	15.95	2.21	1228.33	

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:15:58	14.17	4.59	4.47	15.92	2.27	1228.33
11:16:18	14.16	4.56	4.17	15.91	2.25	1228.35
11:16:38	14.19	4.51	4.34	15.88	2.30	1228.32
11:16:58	14.18	4.49	3.34	15.86	2.40	1228.30
11:17:18	14.21	4.51	3.26	15.86	2.42	1228.34
11:17:38	14.23	4.59	4.07	15.83	2.23	1228.33
11:17:58	14.20	4.64	3.04	15.83	2.25	1228.35
11:18:18	14.17	4.66	3.24	15.81	2.50	1228.33
11:18:38	14.16	4.70	3.36	15.80	2.45	1228.34
11:18:58	14.12	4.78	3.94	15.78	2.21	1228.31
11:19:18	14.08	4.88	4.21	15.78	2.09	1228.31
11:19:38	14.02	4.94	3.47	15.81	1.92	1228.31
11:19:58	13.97	4.96	3.45	15.85	1.84	1228.31
11:20:18	13.92	4.98	3.36	15.89	1.88	1228.31
11:20:38	13.88	4.98	3.30	15.89	1.97	1228.33
11:20:58	13.89	4.97	4.36	15.90	2.11	1228.33
11:21:18	13.90	4.96	4.15	15.90	2.45	1228.31
11:21:38	13.88	4.93	4.98	15.87	2.68	1228.30
11:21:58	13.89	4.90	5.13	15.80	2.81	1228.29
11:22:18	13.89	4.92	4.90	15.75	2.77	1228.31
11:22:38	13.87	4.98	4.39	15.72	2.67	1228.28
11:22:58	13.81	5.02	4.29	15.71	2.65	1228.32
11:23:18	13.80	5.06	4.33	15.68	2.77	1228.32
11:23:38	13.80	5.03	3.41	15.70	2.90	1228.31
11:23:58	13.81	4.98	3.51	15.64	2.92	1228.31
11:24:18	13.84	4.96	4.09	15.64	2.84	1228.31
11:24:38	13.86	4.88	3.57	15.61	2.80	1228.31
11:24:58	13.90	4.74	3.43	15.63	2.81	1228.30
11:25:18	13.97	4.65	3.28	15.63	2.73	1228.29
11:25:38	14.03	4.58	3.32	15.63	2.69	1228.29
11:25:58	14.08	4.55	3.84	15.62	2.66	1228.30
11:26:18	14.12	4.54	3.13	15.64	2.49	1228.30
11:26:38	14.15	4.54	3.19	15.66	2.43	1228.31
11:26:58	14.16	4.55	3.48	15.69	2.49	1228.30
11:27:18	14.18	4.48	3.08	15.69	2.79	1228.31
11:27:38	14.21	4.38	3.09	15.66	2.94	1228.31
11:27:58	14.27	4.36	3.54	15.63	2.85	1228.29
11:28:18	14.29	4.40	2.98	15.61	2.71	1228.29
11:28:38	14.30	4.47	3.01	15.58	2.68	1228.30
11:28:58	14.26	4.53	2.81	15.60	2.56	1228.32
11:29:18	14.25	4.57	3.60	15.59	2.37	1228.31
11:29:38	14.24	4.57	3.51	15.64	2.24	1228.32
11:29:58	14.22	4.52	3.91	15.71	2.27	1228.31
11:30:18	14.23	4.46	3.90	15.74	2.26	1228.29
11:30:38	14.27	4.44	4.46	15.76	2.24	1228.29
11:30:58	14.26	4.46	3.83	15.77	2.19	1228.30
11:31:18	14.26	4.46	3.75	15.78	2.07	1228.28

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:31:38	14.27	4.48	3.79	15.82	1.96	1228.31
11:31:58	14.27	4.48	3.80	15.82	1.97	1228.33
11:32:18		4.50		15.84	2.18	1228.30
11:32:38		4.50		15.82	2.36	1228.31
11:32:58		4.49		15.81	2.44	1228.29
11:33:18		4.46		15.79	2.44	1228.29
11:33:38		4.46		15.77	2.47	1228.29
11:33:58		4.46		15.78	2.47	1228.29
11:34:18		4.45		15.75	2.38	1228.29
11:34:38		4.44		15.75	2.23	1228.30
11:34:58		4.44		15.76	2.21	1228.33
11:35:18		4.46		15.77	2.28	1228.30
11:35:38		4.47		15.78	2.34	1228.28
11:35:58		4.48		15.78	2.33	1228.29
11:36:18		4.50		15.79	2.33	1228.31
11:36:38		4.52		15.79	2.37	1228.26
11:36:58		4.53		15.80	2.27	1228.29
11:37:18		4.53		15.79	2.19	1228.30
11:37:38		4.55		15.82	2.14	1228.29
11:37:58		4.55		15.81	2.22	1228.28
11:38:18		4.56		15.82	2.30	1228.29
11:38:38		4.56		15.82	2.33	1228.29
11:38:58		4.57		15.80	2.39	1228.28
11:39:18		4.60		15.79	2.61	1228.26
11:39:38		4.63		15.76	2.73	1228.29
11:39:58		4.66		15.72	2.64	1228.27
11:40:18		4.61		15.71	2.49	1228.28
11:40:38		4.57		15.69	2.45	1228.29
11:40:58		4.56		15.67	2.43	1228.29
11:41:18		4.54		15.71	2.49	1228.29
11:41:38		4.48		15.69	2.68	1228.29
11:41:58		4.39		15.67	2.75	1228.25
11:42:18		4.35		15.65	2.70	1228.27
11:42:38		4.40		15.62	2.45	1228.27
11:42:58		4.53		15.64	2.36	1228.31
11:43:18		4.57		15.65	2.44	1228.28
11:43:38		4.54		15.67	2.45	1228.29
11:43:58		4.51		15.67	2.52	1228.27
11:44:18		4.51		15.65	2.66	1228.27
11:44:38		4.56		15.64	2.77	1228.27
11:44:58		4.59		15.64	2.82	1228.26
11:45:18		4.57		15.61	2.63	1228.26
11:45:38		4.57		15.63	2.49	1228.27
11:45:58		4.57		15.63	2.41	1228.28
11:46:18		4.54		15.64	2.52	1228.27
11:46:38		4.49		15.63	2.68	1228.30
11:46:58		4.44		15.64	2.69	1228.29

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
11:47:18		4.43		15.64	2.51	1228.28
11:47:38		4.46		15.64	2.40	1228.27
11:47:58		4.52		15.67	2.45	1228.26
11:48:18		4.56		15.67	2.50	1228.28
11:48:38		4.56		15.68	2.61	1228.28
11:48:58		4.51		15.67	2.82	1228.30
11:49:18		4.41		15.61	2.89	1228.26
11:49:38		4.37		15.60	2.90	1228.25
11:49:58		4.40		15.54	2.88	1228.25
11:50:18		4.43		15.54	2.84	1228.26
11:50:38		4.47		15.53	2.80	1228.25
11:50:58		4.49		15.53	2.74	1228.26
11:51:18		4.49		15.52	2.79	1228.27
11:51:38		4.41		15.53	2.82	1228.28
11:51:58		4.30		15.51	2.93	1228.25
11:52:18		4.23		15.49	3.15	1228.26
11:52:38		4.22		15.45	3.29	1133.64
11:52:58		4.28		15.36	3.31	1095.18
11:53:18		4.38		15.35	3.19	1228.25
11:53:38		4.47		15.34	3.12	1228.25
11:53:58		4.51		15.33	3.07	1228.29
11:54:18		4.54		15.34	3.00	1228.27
11:54:38		4.55		15.34	2.96	1228.27
11:54:58		4.50		15.35	2.91	1228.29
11:55:18		4.45		15.36	2.82	1228.25
11:55:38		4.42		15.39	2.82	1228.26
11:55:58		4.43		15.40	2.89	1228.25
11:56:18		4.43		15.41	2.98	1228.26
11:56:38		4.38		15.39	3.05	1228.28
11:56:58		4.34		15.38	3.13	1228.27
11:57:18		4.33		15.37	3.11	1228.25
11:57:38		4.31		15.33	3.16	1228.27
11:57:58		4.26		15.35	3.03	1228.25
11:58:18		4.28		15.36	2.73	1228.26
11:58:38		4.31		15.41	2.59	1228.27
11:58:58		4.36		15.42	2.63	1228.25
11:59:18		4.41		15.46	2.66	1228.27
11:59:38		4.42		15.48	2.60	1228.29
11:59:58		4.40		15.52	2.44	1228.29
12:00:18		4.41		15.53	2.36	1228.26
12:00:38		4.36		15.59	2.41	1228.28
12:00:58		4.32		15.59	2.38	1228.25
12:01:18		4.32		15.64	2.41	1228.25
12:01:38		4.31		15.65	2.45	1228.25
12:01:58		4.32		15.67	2.39	1228.25
12:02:18		4.32		15.68	2.22	1228.25
12:02:38		4.31		15.71	2.19	1228.27

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
12:02:58		4.28		15.75	2.21	1228.25
12:03:18		4.25		15.76	2.36	1228.28
12:03:38		4.18		15.75	2.56	1228.25
12:03:58		4.02		15.70	2.75	1228.25
12:04:18		3.88		15.69	2.83	1228.23
12:04:38		3.82		15.64	2.85	1228.25
12:04:58		3.84		15.63	2.83	1228.25
12:05:18		3.93		15.58	2.79	1228.25
12:05:38		4.10		15.59	2.71	1228.26
12:05:58		4.27		15.58	2.70	1228.26
12:06:18		4.43		15.59	2.65	1228.26
12:06:38		4.50		15.59	2.61	1228.24
12:06:58		4.60		15.61	2.52	1228.25
12:07:18		4.66		15.65	2.40	1228.25
12:07:38		4.65		15.67	2.39	1228.26
12:07:58		4.62		15.70	2.35	1228.25
12:08:18		4.61		15.69	2.38	1228.27
12:08:38		4.59		15.70	2.44	1228.24
12:08:58		4.57		15.70	2.60	1228.23
12:09:18		4.48		15.68	2.90	1228.24
12:09:38		4.35		15.60	3.10	1228.23
12:09:58		4.27		15.54	3.08	1228.25
12:10:18		4.30		15.50	3.00	1228.25
12:10:38		4.38		15.48	3.02	1228.27
12:10:58	14.20	4.47	2.15	15.44	3.07	1228.25
12:11:18	14.21	4.54	1.95	15.41	3.15	1228.27
12:11:38	14.18	4.57	1.99	15.50	3.17	1228.22
12:11:58	14.15	4.62	2.23	15.56	3.18	1228.25
12:12:18	14.14	4.63	2.05	15.63	3.19	1228.23
12:12:38	14.16	4.60	2.14	15.57	3.17	1228.23
12:12:58	14.18	4.59	2.50	15.29	2.85	1228.25
12:13:18	14.18	4.55	2.35	15.32	2.63	1228.27
12:13:38	14.24	4.47	2.50	15.37	2.58	1228.25
12:13:58	14.24	4.41	2.24	15.45	2.65	1228.25
12:14:18	14.29	4.38	2.39	15.49	2.79	1228.24
12:14:38	14.28	4.39	2.68	15.50	2.76	1228.23
12:14:58	14.42	4.43	2.93	15.54	2.63	1228.24
12:15:18	14.40	4.47	3.27	15.59	2.58	1228.22
12:15:38	14.36	4.51	2.62	15.64	2.53	1228.25
12:15:58	14.33	4.51	2.31	15.64	2.66	1228.25
12:16:18	14.35	4.45	2.80	15.61	2.87	1228.23
12:16:38	14.38	4.40	2.95	15.55	2.98	1205.56
12:16:58	13.82	4.38	-1.73	15.53	3.07	1183.30
12:17:18	14.31	4.38	1.82	15.48	3.03	1228.21
12:17:38	14.38	4.39	2.25	15.45	2.94	1228.23
12:17:58	14.41	4.38	2.25	15.50	2.85	1228.22
12:18:18	14.37	4.36	1.54	15.64	2.78	1228.22

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO
Group:						
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO
12:18:38	14.40	4.39	2.12	15.65	2.72	1228.23
12:18:58	14.42	4.47	2.67	15.66	2.60	1228.24
12:19:18	14.40	4.44	2.87	15.70	2.51	1228.23
12:19:38	14.39	4.33	3.92	15.71	2.45	1228.23
12:19:58	14.41	4.21	7.00	15.73	2.44	1228.23
12:20:18	14.43	4.12	9.04	15.75	2.35	1228.22
12:20:38	14.47	4.07	9.08	15.81	2.25	1228.22
12:20:58	14.54	4.01	8.72	15.84	2.24	1228.22
12:21:18	14.56	3.97	8.45	15.86	2.29	1228.24
12:21:38	14.61	3.88	9.90	15.89	2.29	1228.22
12:21:58	14.67	3.82	12.56	15.88	2.34	1228.23
12:22:18	14.70	3.83	13.08	15.87	2.46	1228.25
12:22:38	14.72	3.89	12.37	15.84	2.58	1228.23
12:22:58	14.74	4.00	12.19	15.78	2.53	1228.22
12:23:18	14.75	4.07	11.28	15.75	2.47	1228.22
12:23:38	14.74	4.06	12.41	15.76	2.56	1228.23
12:23:58	14.73	4.03	14.09	15.72	2.54	1228.21
12:24:18	14.72	4.04	13.25	15.72	2.47	1228.22
12:24:38	14.66	4.10	10.08	15.70	2.33	1228.23
12:24:58	14.65	4.18	7.83	15.75	2.11	1228.25
12:25:18	14.62	4.24	6.01	15.78	1.94	1228.23
12:25:38	14.59	4.29	4.57	15.80	2.07	1228.21
12:25:58	14.57	4.33	3.36	15.79	2.19	1228.21
12:26:18	14.53	4.40	3.04	15.81	2.06	1228.21
12:26:38	14.49	4.45	3.39	15.79	1.94	1228.22
12:26:58	14.43	4.45	2.67	15.85	1.93	1228.23
12:27:18	14.44	4.44	2.78	15.86	2.02	1228.22
12:27:38	14.41	4.46	2.64	15.90	2.04	1228.23
12:27:58	14.38	4.48	2.10	15.89	2.10	1228.22
12:28:18	14.34	4.46	4.40	15.85	2.18	1228.24
12:28:38	14.35	4.41	5.77	15.85	2.24	1228.22
12:28:58	14.35	4.39	6.14	15.80	2.23	1228.21
12:29:18	14.34	4.37	5.56	15.77	2.23	1228.20
12:29:38	14.36	4.36	4.81	15.77	2.39	1228.21
12:29:58	14.36	4.37	4.49	15.71	2.42	1228.23
12:30:18	14.36	4.41	3.57	15.70	2.33	1228.21
12:30:38	14.36	4.44	2.98	15.71	2.25	1228.22
12:30:58	14.35	4.50	2.20	15.74	2.17	1228.22
12:31:18	14.32	4.55	2.27	15.78	2.04	1228.20
12:31:38	14.28	4.58	2.29	15.81	2.03	1228.21
12:31:58	14.26	4.57	2.16	15.84	2.20	1228.18
12:32:18	14.26	4.53	1.84	15.79	2.31	1228.19
12:32:38	14.25	4.53	2.12	15.79	2.37	1228.23
12:32:58	14.24	4.61	2.16	15.76	2.31	1228.21
12:33:18	14.23	4.64	1.98	15.78	2.27	1228.22
12:33:38	14.21	4.64	1.75	15.78	2.26	1228.23
12:33:58	14.20	4.67	1.82	15.79	2.21	1228.20

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Device/Chanr	IPPGAS/101	IPPGAS/102	IPPGAS/103	IPPGAS/104	IPPGAS/105	IPPGAS/106	
Units:	%CO2	%O2	PPM_CO	%CO2	%O2	PPM_CO	
Group:							
Tag:	EastCO2	EastO2	EastCO	WestCO2	WestO2	WestCO	
12:34:18	14.17	4.70	1.85	15.81	2.12	1228.21	
12:34:38	14.15	4.73	1.95	15.82	2.16	1228.20	
12:34:58	14.12	4.73	1.54	15.81	2.27	1228.21	
12:35:18	14.12	4.72	1.41	15.80	2.32	1228.19	
12:35:38	14.12	4.71	1.88	15.79	2.33	1228.20	
12:35:58	14.13	4.71	1.28	15.78	2.40	1228.19	
12:36:18	14.13	4.71	1.82	15.77	2.41	1228.20	
12:36:38	14.13	4.68	1.80	15.77	2.39	1228.23	
12:36:58	14.13	4.69	1.29	15.76	2.45	1228.20	
12:37:18	14.13	4.64	1.67	15.73	2.55	1228.18	
12:37:38	14.17	4.57	1.38	15.70	2.60	1228.19	
12:37:58	14.19	4.54	2.00	15.64	2.59	1228.20	
12:38:18	14.23	4.53	2.08	15.65	2.62	1228.21	
12:38:38	14.21	4.54	2.10	15.68	2.64	1228.21	
12:38:58	14.21	4.57	2.39	15.65	2.67	1228.21	
12:39:18	14.19	4.61	1.51	15.65	2.62	1228.20	
12:39:38	14.20	4.61	1.26	15.66	2.55	1228.20	
12:39:58	14.17	4.60	1.53	15.67	2.61	1228.18	
12:40:18	14.17	4.57	1.30	15.66	2.73	1228.18	
12:40:38	14.19	4.51	2.40	15.63	2.78	1228.20	
12:40:58	14.21	4.47	3.10	15.61	2.75	1228.18	
12:41:18	14.25	4.43	3.44	15.63	2.67	1228.22	
12:41:38	14.26	4.36	5.71	15.64	2.70	1228.20	
12:41:58	14.32	4.23	6.51	15.62	2.81	1228.20	
12:42:18	14.38	4.14	5.84	15.56	2.89	1090.11	
12:42:38	14.44	4.11	4.99	15.56	2.88	1116.58	
12:42:58	14.46	4.08	4.00	15.57	2.86	1228.16	
12:43:18	14.51	4.07	3.49	15.54	2.88	1228.17	
12:43:38	14.54	4.06	3.01	15.54	2.94	1210.08	
12:43:58	14.53	4.14	3.19	15.47	3.02	1150.66	
12:44:18	14.49	4.24	2.55	15.47	3.02	1136.47	
12:44:38	14.49	4.31	2.48	15.38	3.07	1099.72	
12:44:58	14.48	4.35	2.31	15.39	3.14	1037.98	
average	14.23	4.49	3.67	15.71	2.47	1224.93	Test 33
minimum	13.80	3.82	-1.73	15.29	1.65	1037.98	
maximum	14.75	5.06	14.09	16.06	3.31	1228.37	

42 | 5-17-04 | All pulv I/S

Monday

G row to r6 OR

12:30	East O2	3.29	CO	87	West O2	2.95	CO	861
12:35	East O2	3.41	CO	51	West O2	3.15	CO	882
12:40	East O2	3.38	CO	33	West O2	2.98	CO	589
12:45	East O2	3.37	CO	62	West O2	3.12	CO	494

D row spin to 3" O2 split about same, CO ↑

12:55	East O2	3.41	CO	217	West O2	3.14	CO	1067
13:00	East O2	3.52	CO	120	West O2	3.12	CO	849

lt row spin to 3" big change on O2 split

13:10	East O2	3.07	CO	183	West O2	3.32	CO	745
13:15	East O2	3.26	CO	178	West O2	3.35	CO	365

E row spin to 3"

13:25	East O2	3.20	CO	77	West O2	3.19	CO	435
13:30	East O2	3.28	CO	98	West O2	289	CO	610

A row spin to 3" ↑ ↑

13:40	East O2	3.13	CO	310	West O2	3.14	CO	723
13:45	East O2	3.30	CO	240	West O2	2.65	CO	1045
13:50	East O2	3.46	CO	321	West O2	2.68	CO	1228

A row spin back to 3 3/4", D row back 3 3/4"

14:10	East O2	3.23	CO	62	West O2	2.63	CO	596
14:15	East O2	3.45	CO	44	West O2	2.58	CO	380
14:20	East O2	3.30	CO	68	West O2	2.81	CO	345

F row spin 3"

14:35	East O2	3.23	CO	82	West O2	2.75	CO	668
14:40	East O2	3.31	CO	83	West O2	2.57	CO	1023

F row spin 4" big drop in O2 & CO↑ before steadied out

14:55	East O2	3.40	CO	36	West O2	2.37	CO	1228+

F row spin west 3 3/4, east 3 1/4"

15:10	East O2	3.22	CO	87	West O2	2.86	CO	316
15:15	East O2	3.26	CO	48	West O2	283	CO	297
15:20	East O2	3.05	CO	78	West O2	3.09	CO	184
15:25	East O2	3.12	CO	72	West O2	2.91	CO	188
15:30	East O2	2.93	CO	110	West O2	2.74	CO	204

C moved

all OR set r7

15:50	East O2	3.07	CO	122	West O2	2.79	CO	321
15:55	East O2	2.97	CO	98	West O2	3.02	CO	169
16:00	East O2	3.17	CO	75	West O2	2.88	CO	449

TOPS

IP7_033030

U2
Tuesday

5-18-04 All OR @ set r7 All pulv I/S

8:00	East O2	3.45	CO	42	West O2	3.91	CO	82
8:05	East O2	3.14	CO	43	West O2	4.02	CO	74
8:10	East O2	3.30	CO	31	West O2	3.79	CO	46
8:15	East O2	3.32	CO	27	West O2	3.85	CO	94
8:20	East O2	3.25	CO	41	West O2	4.07	CO	81
8:25	East O2	3.50	CO	21	West O2	3.74	CO	195
8:30	East O2	3.51	CO	42	West O2	3.69	CO	264

moving to r8 All spin 3 3/4" except F1, F2 + F3 @ 3 1/4", E & H 3"
done @ 8:55 inner 4th hole

9:00	East O2	3.34	CO	37	West O2	3.71	CO	252
9:05	East O2	3.36	CO	39	West O2	3.60	CO	141
9:10	East O2	3.46	CO	49	West O2	3.42	CO	462
9:15	East O2	3.53	CO	46	West O2	3.76	CO	110
9:20	East O2	2.92	CO	61	West O2	3.91	CO	86
9:25	East O2	3.00	CO	68	West O2	3.78	CO	165
9:30	East O2	3.42	CO	39	West O2	3.79	CO	101
9:35	East O2	3.39	CO	33	West O2	3.83	CO	156
9:40	East O2	3.29	CO	30	West O2	3.87	CO	134
9:45	East O2	3.11	CO	88	West O2	3.60	CO	102
9:50	East O2	3.01	CO	77	West O2	3.96	CO	71
9:55	East O2	3.05	CO	51	West O2	4.19	CO	42
10:00	East O2	3.31	CO	70	West O2	3.81	CO	109

moving E row spin from 3" to 3 1/4 E1, E2, E3, 3 3/4" E4, E5, E6

10:10	East O2	2.54	CO	183	West O2	4.05	CO	182
10:15	East O2	2.82	CO	84	West O2	4.07	CO	61
10:20	East O2	2.91	CO	46	West O2	4.15	CO	72

10:25 moving E4, E5, E6 to 3 1/4"
All E row spin 3 1/4"

10:30	East O2	3.05	CO	39	West O2	3.98	CO	92
10:35	East O2	2.94	CO	45	West O2	3.93	CO	108
10:40	East O2	3.09	CO	36	West O2	3.76	CO	296
10:45	East O2	3.15	CO	57	West O2	3.79	CO	256

closing to 2 3/4" on all E row spin

10:55	East O2	3.17	CO	50	West O2	3.65	CO	152
11:00	East O2	3.32	CO	40	West O2	3.39	CO	215
11:05	East O2	3.44	CO	21	West O2	2.99	CO	661
11:10	East O2	3.42	CO	32	West O2	3.58	CO	245
11:15	East O2	3.34	CO	36	West O2	3.61	CO	318

moving E 4,5,6 to 3"

11:20	East O2	3.05	CO	99	West O2	3.55	CO	397
11:25	East O2	3.10	CO	66	West O2	3.95	CO	66
11:30	East O2	3.18	CO	59	West O2	4.03	CO	100

E 1, E2, E3 spin back to 3"
profile 13:10 to 14:21

14:30 to 15:47

Do spin @ 5" c flame shape

TOPS 35500

5/18/04 fves

Unit 2 Start Time 13:10 End Time 14:21 CO#'s

West **% O2 East Duct** **East**

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	13:20:30 Tap 1
41	58	38	57	13	112	13:10 8.9
74	400	382	27	7.3	58	17:00 23.4
344	85	486	6.5	12	147	20:20 42
158	95	30	9	7.4	188	69
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West **% O2 West Duct** **East**

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	13:16:20 Tap 8
354	55	54	88	59	107	16:20 48
119	117	153	213	69	191	18:20 131
411	124	163	820	284	702	401
1228 - max	304	318	348	462	502	252
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

5/18/04

tuesday @ r8 setting inner 4th hole spin E+H 3" F1, F2, F3 @ 3 1/4" rest @ 3 3/4"

Unit 2 Start Time 13:10 End Time 14:21

West **% O2 East Duct** **East**

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1
11:40 3.2	14:01:50 3.2	52:10 3.3	44:20 2.8	34:50 2.7	25:30 2.1	10:30 2.4
14:40 3.4	04:00 2.1	54:00 2.5	46:20 2.4	37:00 2.5	27:30 1.7	17:00 2.2
17:10 3.6	06:30 3.3	56:20 2.2	48:10 3.3	39:10 3.5	30:00 2.4	20:20 2.7
20:20 4.9	09:00 4.4	58:20 4.4	50:00 5.4	41:20 4.8	32:10 2.6	23:00 2.6
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West **% O2 West Duct** **East**

+10 sec

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8
12:30 2.5	14:01:00 2.8	52:30 3.4	44:40 4.2	35:10 3.8	4.3	16:20 4.1
15:10 2.8	04:20 2.5	54:20 3.4	46:40 3.9	37:30 3.5	3.8	18:20 4.2
17:40 2.6	06:50 2.2	56:40 3.0	48:40 2.6	39:50 3.0	3.8	21:00 4.1
20:40 1.5	09:30 2.3	58:30 4.3	50:40 3.1	41:40 3.5	4.4	23:00 4.4
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

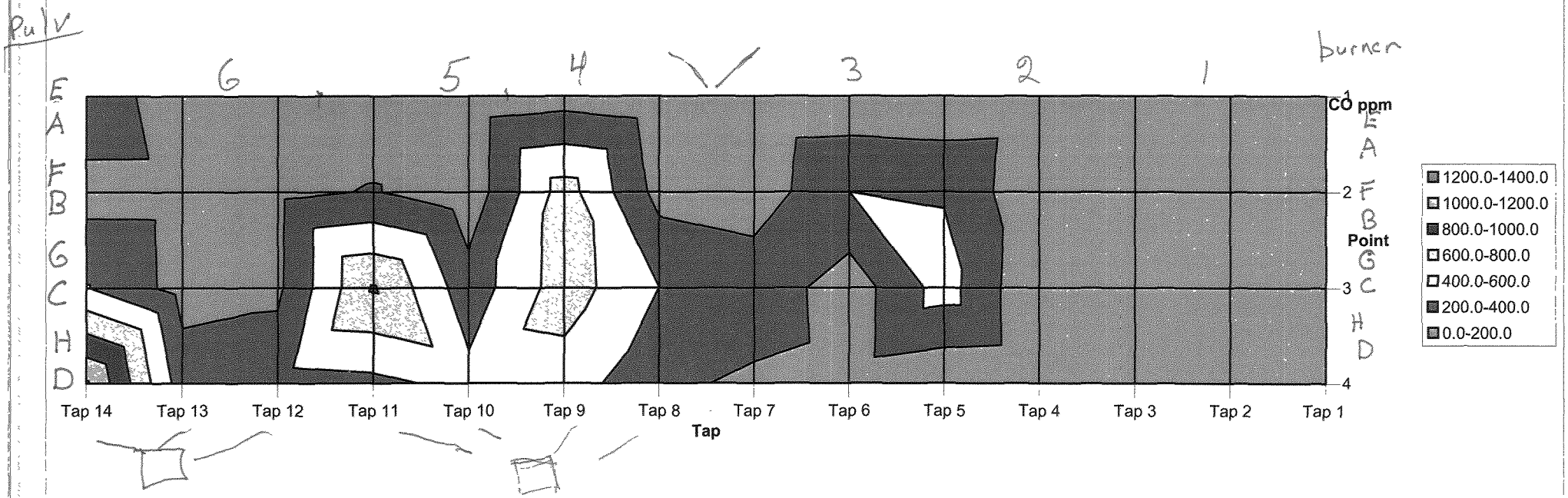
U2 All Pulv i/s 5-18-04

CO Profile

Top

West

East



D6, C5, C4, F4, B4

14-4 11-3 9-3 9-2

Bottom

IP7_033034

Unit 2 Start Time 5/18/2004 13:10 End Time 5/18/2004 14:21

All Pulv i/s

West — PPM CO East Duct — East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
41	58	38	57	13	112	9	46.84
74	400	382	27	7	58	23	138.81
344	85	486	7	12	147	43	160.50
158	95	30	9	7	188	69	79.49
Column Averages							
154	160	234	25	10	126	36	

Avg CO East = 106 Hi ppm CO = 486 Lo ppm CO = 7 CO Range = 480

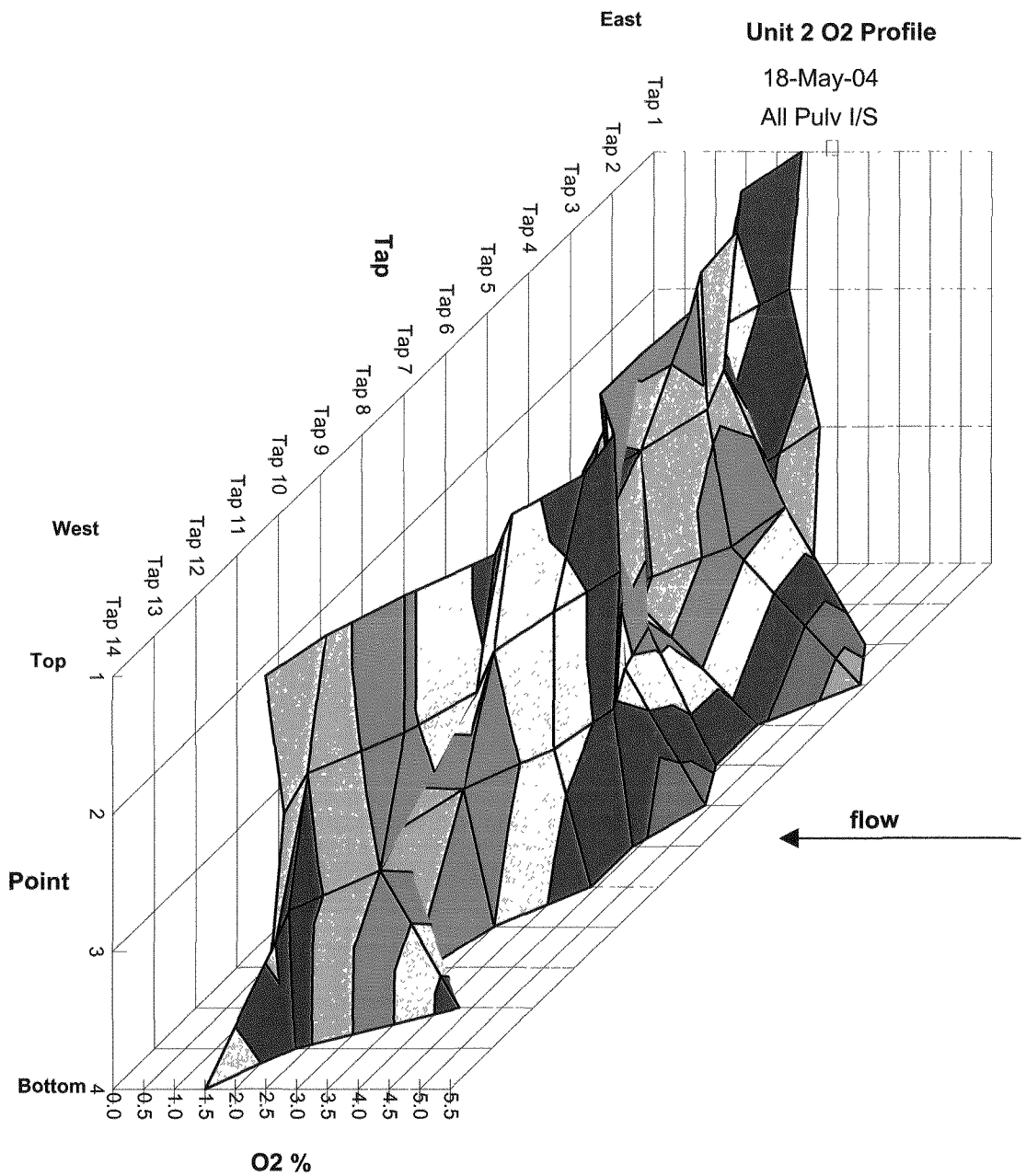
West — PPM CO West Duct — East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
354	55	54	88	59	107	48	109.29
119	117	153	213	69	691	131	213.29
411	124	163	820	284	702	401	415.00
1228	304	318	348	462	502	252	487.71
Column Averages							
528	150	172	367	219	501	208	

Avg CO West = 306.3 Hi ppm CO = 1228 Lo ppm CO = 48 CO Range = 1180

Whole Duct Information

Avg ppm CO = 206 Hi ppm CO= 1228 Lo ppm CO = 7 CO Range = 1222


Unit 2 O2 Profile
18-May-04
All Pulv I/S
East
West
Tap
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
Point
Top
1
2
3
Bottom 4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
O2 %
flow

U2 All Pulv i/s 5-18-04

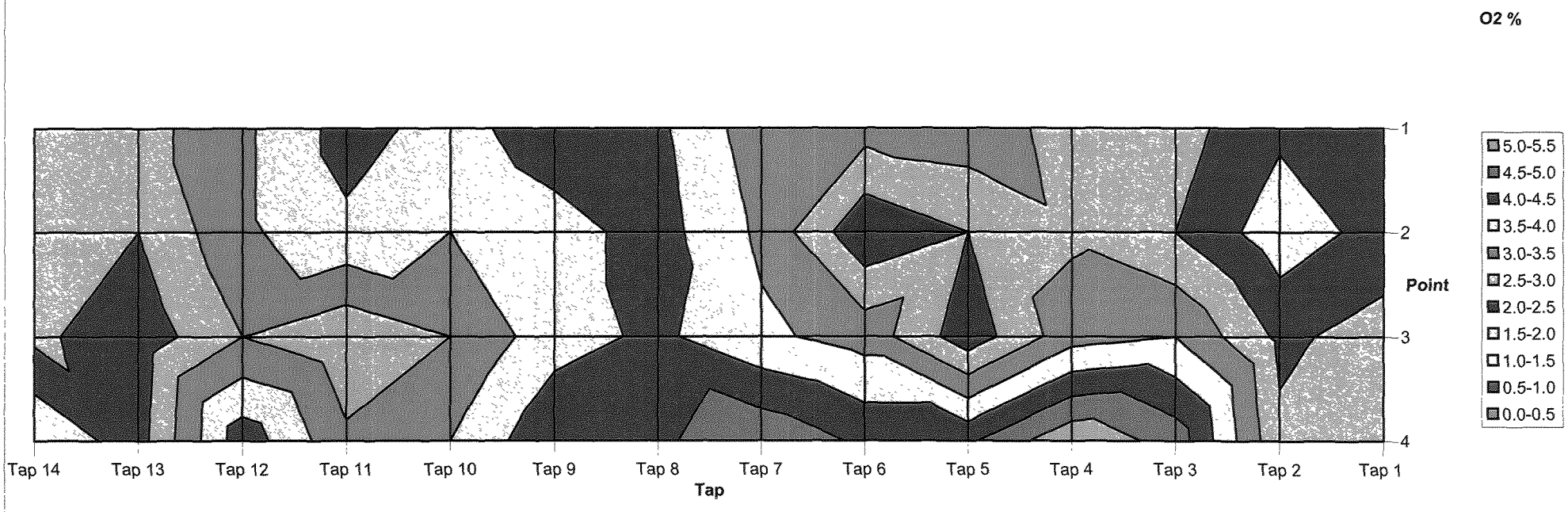
O2 Profile

Wes

Top

East

O2%



Bottom

IP7_033037

Unit 2 Start Time 5/18/2004 13:10 End Time 5/18/2004 14:21

All Pulv i/s

West % O2 East Duct East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
3.2	3.2	3.3	2.8	2.7	2.1	2.4	2.81
3.4	2.1	2.5	2.9	2.5	1.7	2.2	2.47
3.6	3.3	2.2	3.3	3.5	2.4	2.7	3.00
4.9	4.4	4.4	5.4	4.8	2.6	2.6	4.16
Column Averages							
3.78	3.25	3.10	3.60	3.38	2.20	2.48	

Avg %O2 East = 3.11 Hi %O2 = 5.40 Lo % O2 = 1.70 O2 Range = 3.70

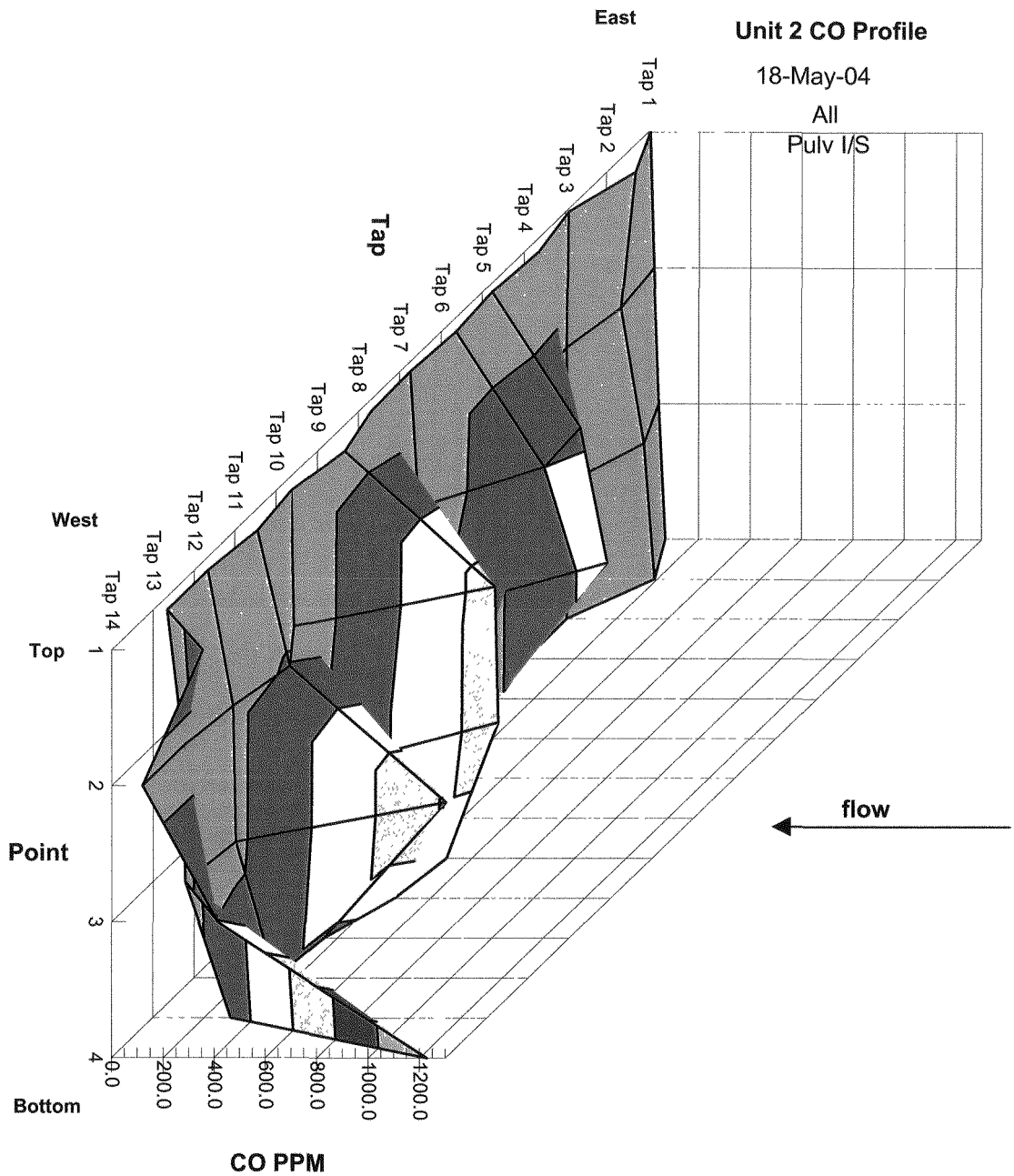
West % O2 West Duct East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
2.5	2.8	3.4	4.2	3.8	4.3	4.1	3.59
2.8	2.5	3.4	3.9	3.5	3.8	4.2	3.44
2.6	2.2	3.0	2.6	3.0	3.8	4.1	3.04
1.5	2.3	4.3	3.1	3.5	4.4	4.4	3.36
Column Averages							
2.35	2.45	3.53	3.45	3.45	4.08	4.20	

Avg %O2 West = 3.36 Hi %O2 = 4.4 Lo % O2 = 1.5 O2 Range = 2.9

Whole Duct Information

Avg %O2 = 3.23 Hi %O2 = 5.40 Lo % O2 = 1.50 O2 Range = 3.9


Unit 2 CO Profile
18-May-04
All
Pulv I/S
East
West
Tap
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
Point
Top
1
2
3
4
Bottom
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
CO PPM
flow

Wed 5-19-04

08:40	East O2	2.51	CO	220	West O2	4.03	CO 73
8:45	East O2	2.88	CO	196	West O2	3.83	CO 178
8:50	East O2	2.61	CO	242	West O2	3.84	CO 117
8:55	East O2	2.87	CO	139	West O2	3.61	CO 110
9:00	East O2	2.91	CO	131	West O2	4.03	CO 70

moved OR to r9 settings

9:05	East O2	2.92	CO	136	West O2	3.52	CO 239
9:10	East O2	2.74	CO	133	West O2	3.99	CO 62
9:15	East O2	3.02	CO	112	West O2	3.90	CO 182
9:20	East O2	2.80	CO	235	West O2	3.86	CO 198
9:25	East O2	2.97	CO	262	West O2	3.97	CO 77
9:30	East O2	2.85	CO	154	West O2	3.70	CO 151
9:35	East O2	2.97	CO	218	West O2	3.75	CO 244

moved F1, F2, F3 spin 3 1/4" to 3 3/4"

9:45	East O2	3.34	CO	76	West O2	3.48	CO 203
9:50	East O2	3.46	CO	61	West O2	3.38	CO 292
9:55	East O2	3.44	CO	91	West O2	3.45	CO 215
10:00	East O2	3.50	CO	63	West O2	3.46	CO 164
10:05	East O2	3.48	CO	41	West O2	3.41	CO 162
10:10	East O2	3.46	CO	54	West O2	3.48	CO 116
10:15	East O2	3.51	CO	47	West O2	3.48	CO 116
10:20	East O2	3.55	CO	85	West O2	3.36	CO 183
10:25	East O2	3.45	CO	87	West O2	3.61	CO 105
10:30	East O2	3.54	CO	48	West O2	3.53	CO 152

E D6 A F B G C D5 H D

attached to read D6 tap 14-4

10:35	East O2	3.43	CO	53	West O2	3.30	CO 25
10:40	East O2	3.65	CO	36	West O2	3.09	CO 25
10:45	East O2	3.49	CO	36	West O2	3.33	CO 27
10:50	East O2	3.26	CO	60	West O2	3.07	CO 70
	Ave						

14-4 up to ≈250 then down

13-4

10:55	East O2	3.22	CO	64	West O2	3.30	CO 85 up to 300
11:00	East O2	3.19	CO	82	West O2	3.42	CO 154
11:05	East O2	3.28	CO	91	West O2	3.62	CO 24 staged down
11:10	East O2	3.26	CO	66	West O2	3.45	CO 33 below 50 8 min
	Ave						

C5

11-3

11:15	East O2	3.44	CO	47	West O2	3.92	CO 146 up 285
11:20	East O2	3.42	CO	65	West O2	3.83	CO 191 down 65
11:25	East O2	3.42	CO	51	West O2	4.14	CO 183

moved C5 spin 3 3/4" to 3"

11-3 higher & more unstable ragged

11:35	East O2	3.84	CO	57	West O2	3.64	CO 119 up 400
11:40	East O2	3.33	CO	73	West O2	4.57	CO 132
11:45	East O2	3.59	CO	29	West O2	3.78	CO 108

move C5 spin 3" to 5"

11:55	East O2	3.29	CO	52	West O2	4.07	CO 95
12:00	East O2	3.47	CO	61	West O2	3.94	CO 102
12:05	East O2	3.36	CO	63	West O2	3.57	CO 218

TOPS 35500

IP7_033040

5-19-04 continued C5 spin @ 5"

12:10	east O2 3.46	CO 74		11-3 West O2 3.97	CO 108	
putting Coal bias on C Pulv						
12:15	East O2 3.36	CO 118		West O2 4.05	CO 53	
12:20	East O2 3.36	CO 56		West O2 4.29	CO 55	
12:25	East O2 3.23	CO 63		West O2 4.19	CO 47	
C-4				9-3		
12:40	East O2 3.28	CO 100		West O2 3.32	CO 159	top 1228+
12:45	East O2 3.24	CO 66		West O2 3.03	CO 589	
→ 12:50	East O2	CO		West O2	CO	
moving OR 6.2 to 7.0				9-3 OR to 7"		
12:55	East O2 3.22	CO 110		West O2 3.31	CO 765	up to 1228
13:00	East O2 3.39	CO 87		West O2 3.56	CO 387	
				move spin 3 3/4" to 4.5"		
				9-3		
13:10	east O2 3.27	CO 75		West O2 3.40	CO 442	
13:15	East O2 3.13	CO 80		West O2 3.53	CO 107	
13:20	East O2 3.24	CO 59		West O2 2.64	CO 482	
putting hood back 6.2, spin back 3 3/4"						
				9-3		9-2
move H row spin 3" to 3 3/4",				C4 back 6.2 OR 3 3/4" spin		
F4 13:40	East O2 3.36	CO 56		West O2 2.75	CO 500	up to 1200
13:45	East O2 3.11	CO 82		West O2 2.81	CO 265	
13:50	East O2 3.10	CO 135		West O2 3.00	CO 612	
13:55	East O2 3.32	CO 76		West O2 2.18	CO 1228+	
	F3 + F4 up to 5.5"					very unstable ↑
14:05	East O2 3.08	CO 197		West O2 3.57	CO 771	
14:10	East O2	CO		West O2	CO	
put D3 + D4 OR to 5.5"						
14:25	East O2 3.16	CO 150		West O2 3.34	CO 514	
	put F3 + F4 back to original settings					
E row 3 3/4" spin except E4 4.5"						
15:50	East O2 2.97	CO 54		Ave West O2 3.22	CO 150	

Low O2 7.2

35500

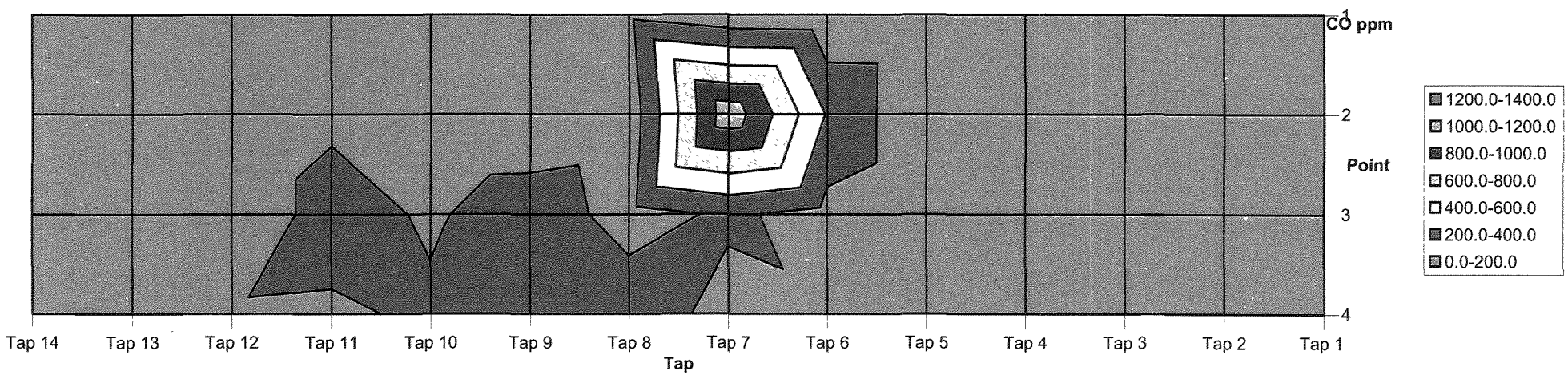
U2 All Pulv i/s 5-19-04

CO Profile

Top

West

East



Bottom

IP7_033042

U2 All Pulv i/s 5-19-04

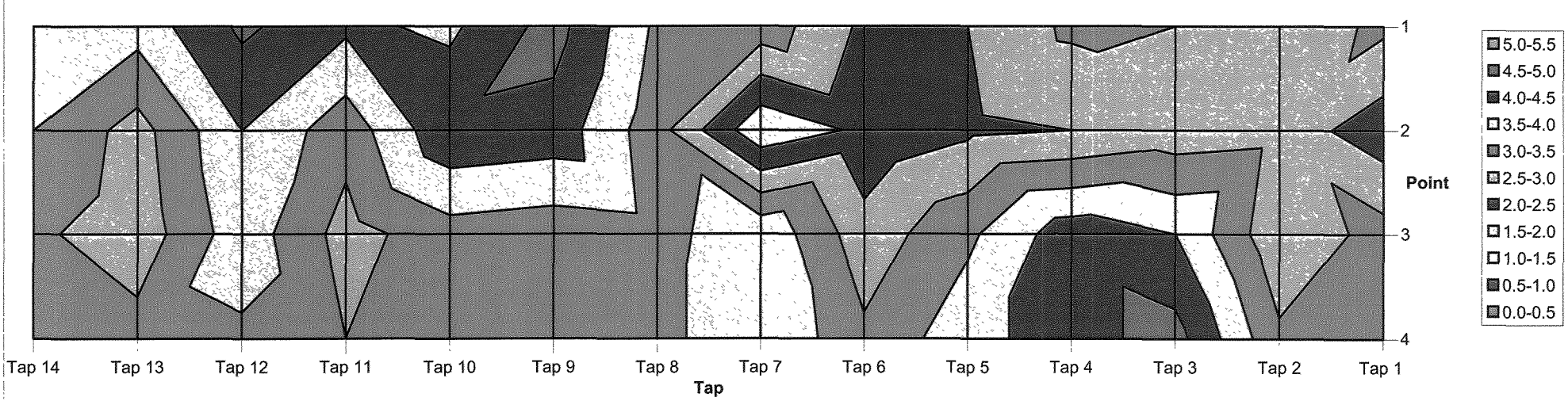
O2 Profile

Wes

Top

East

O2%

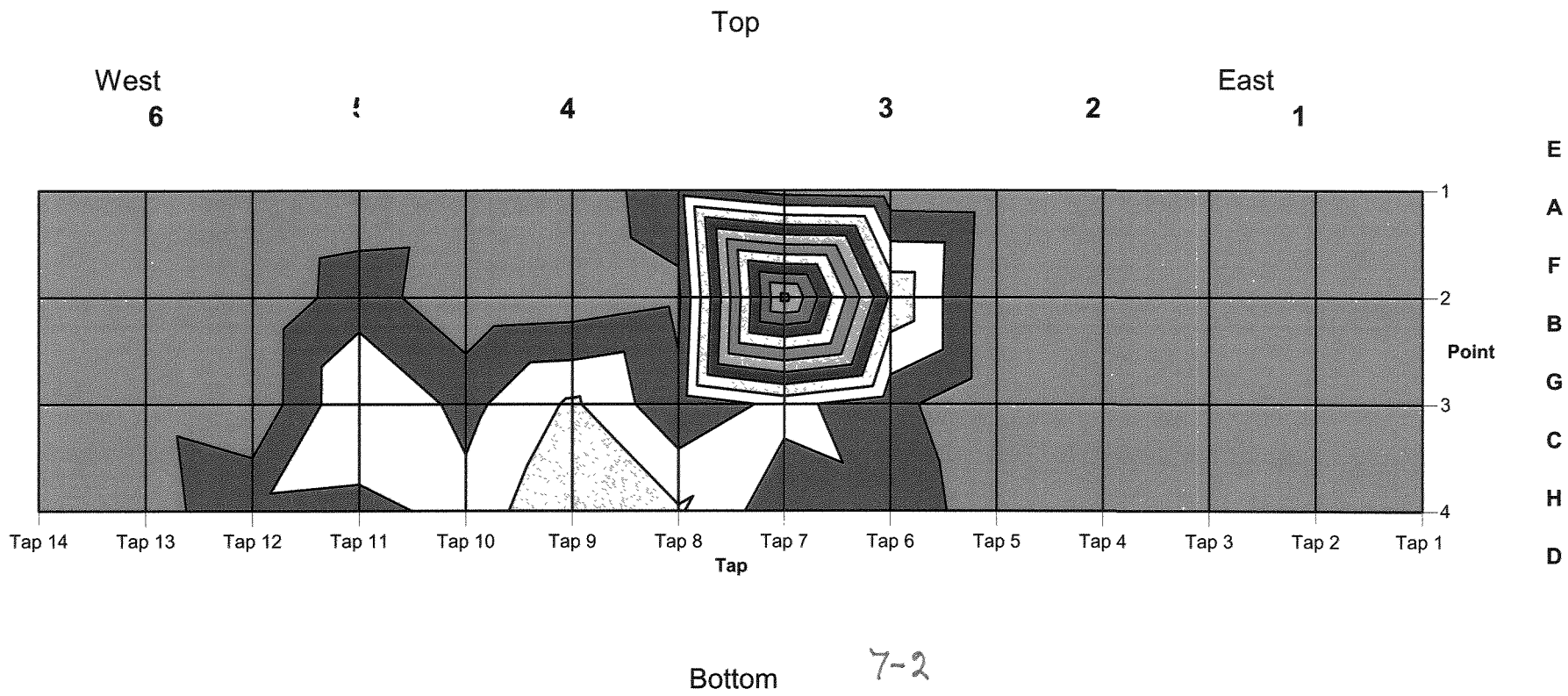


Bottom

IP7_033043

U2 All Pulv i/s 5-19-04

CO Profile



7-2

CO ppm

0.0-100.0 | 100.0-200.0 | 200.0-300.0 | 300.0-400.0 | 400.0-500.0 | 500.0-600.0 | 600.0-700.0 | 700.0-800.0 | 800.0-900.0 | 900.0-1000.0 | 1000.0-1100.0 | 1100.0-1200.0 | 1200.0-1300.0 | 1300.0-1400.0

IP7_033044

ABT- predicted outer air register settings for air flow balancing

r9 5/19/2004

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

UNIT 2

			Spin Vanes	Inner Air	r7 5/17/04	r8 5/18/04	r9 5/19/2004
Front	Pulv	E1	3.75	1.5	6.5	6.3	6.5
		E2	3.75	1.5	5.4	5.1	5.3
	min	E3	3.75	1.5	5.0	4.6	4.7
	E	E4	4.50	1.5	5.1	4.7	4.8
		E5	3.75	1.5	5.7	5.3	5.4
		E6	3.75	1.5	6.8	6.6	6.6
	Pulv	A1	3.75	1.5	8.7	8.5	8.7
		A2	3.75	1.5	7.3	6.8	7.0
	A	A3	3.75	1.5	6.6	6.1	6.3
		A4	4.50	1.5	6.9	6.3	6.5
		A5	3.75	1.5	7.6	7.0	7.2
		A6	3.75	1.5	9.2	8.9	8.9
	Pulv	F1	3.75	1.5	6.8	6.5	6.8
		F2	3.75	1.5	5.6	5.3	5.4
	F	F3	3.75	1.5	5.1	4.7	4.9
		F4	**4.50**	1.5	5.3	4.8	5.0
		F5	3.75	1.5	5.9	5.4	5.6
		F6	3.75	1.5	7.1	6.9	6.9
	Pulv	B1	3.75	1.5	10.3	10.0	10.3
		B2	3.75	1.5	8.6	8.0	8.3
	B	B3	3.75	1.5	7.8	7.2	7.5
		B4	3.75	1.5	8.1	7.4	7.6
		B5	3.75	1.5	8.9	8.3	8.5
		B6	3.75	1.5	10.8	10.5	10.5
ave (front)			8.4		7.1	6.7	6.9

			Spin Vanes	Inner Air	r7 5/17/04	r8 5/18/04	r9 5/19/2004
Rear	Pulv	D1	3.75	1.5	7.3	**7.1**	**7.1**
		D2	3.75	1.5	6.1	**4.7**	**4.7**
	D	D3	3.75	1.5	5.5	**4.0**	5.0
		D4	3.75	1.5	5.7	**4.5**	5.0
		D5	3.75	1.5	6.3	**6.3**	**6.3**
		D6	5.00	1.5	7.6	**10.3**	**10.3**
	Pulv	H1	3.75	1.5	9.4	9.1	9.3
		H2	3.75	1.5	7.8	7.3	7.5
	H	H3	3.75	1.5	7.1	6.6	6.8
		H4	3.75	1.5	7.3	6.7	6.9
		H5	3.75	1.5	8.1	7.5	7.7
		H6	3.75	1.5	9.8	9.5	9.5
	Pulv	C1	3.75	1.5	8.3	8.1	8.3
		C2	3.75	1.5	7.0	6.5	6.7
	C	C3	3.75	1.5	6.3	5.9	6.1
		C4	3.75	1.5	6.5	6.0	6.2
		C5	5.00	1.5	7.2	6.7	6.9
		C6	3.75	1.5	8.8	8.5	8.5
	Pulv	G1	3.75	1.5	12.7	12.3	12.6
		G2	3.75	1.5	10.5	9.9	10.2
	G	G3	3.75	1.5	9.6	8.9	9.2
		G4	3.75	1.5	9.9	9.1	9.4
		G5	3.75	1.5	11.0	10.2	10.4
	max	G6	3.75	1.5	13.3	12.9	12.9
		ave (rear)	9.6		8.3	7.8	8.1
	ave (total)		9.0		7.7	7.3	**7.5**

INPUTS:

Initial Outer Register Setting Refere	initial	r1	r2	r3	r4	r5	r7
(max setting on rear- 1st, row, oute	11.0	10.0	10.0	10.0	9.0	8.0	11.0

S:		r0	r1	r2	r3	r7
Front to Rear BIAS	Front	0.88	0.88	0.85	0.82	0.85
push to rear wall	Rear	1.00	1.00	1.00	1.00	1.00

	outer (1/ 6)	nner (2/ 5	center (3/4)	
Inner to Outer Burner E	1.00	0.96	0.94	r0
w/ baffles	1.00	0.95	0.92	r1
	1.00	0.92	0.88	r2
	1.00	0.90	0.85	r3
	1.00	0.85	0.80	r7
	1.02	0.84	0.78	r8

	6 (west)	5	4	3	2	1 (east)	
Side to Side Bias	1.00	1.00	1.00	1.00	1.00	1.00	r0
push from east to west	1.00	0.95	0.92	0.90	0.92	0.96	r1
	1.00	1.00	1.00	1.00	1.00	1.00	r3
	1.05	1.02	0.98	0.95	0.98	1.00	r7
	1.00	0.98	0.95	0.93	0.96	0.98	r8

		initial	r1	r2	r3	r6
Top to Bottom BIAS	4th- E/ D	0.88	0.86	0.82	0.82	0.92
push to bottom	3rd- A/ H	0.90	0.88	0.85	0.85	0.85
	2nd- F/ C	0.92	0.88	0.85	0.85	0.85
	1st- B/ G	1.00	1.00	1.00	1.00	1.00
Windbox Sizing Bias (r	2nd & 4th	0.95	0.90	0.90	0.85	0.85
	1st& 3rd	1.00	1.00	1.00	1.00	1.00

						r7
Extra Bias based on R	Pulv 2E (f-4th)					1.00
	Pulv 2D (r-4th)				0.95	0.95
	Pulv 2A (f-3rd)				1.05	1.10
	Pulv 2H (r- 3rd)				1.05	1.00
	Pulv 2F (f-2nd)			0.95	0.92	1.00
	Pulv 2C (r-2nd)		0.85	0.80		1.05
	Pulv 2B (f-1st)		1.07	1.07	1.10	1.10
	Pulv 2G (r-1st)			1.05	1.10	1.15

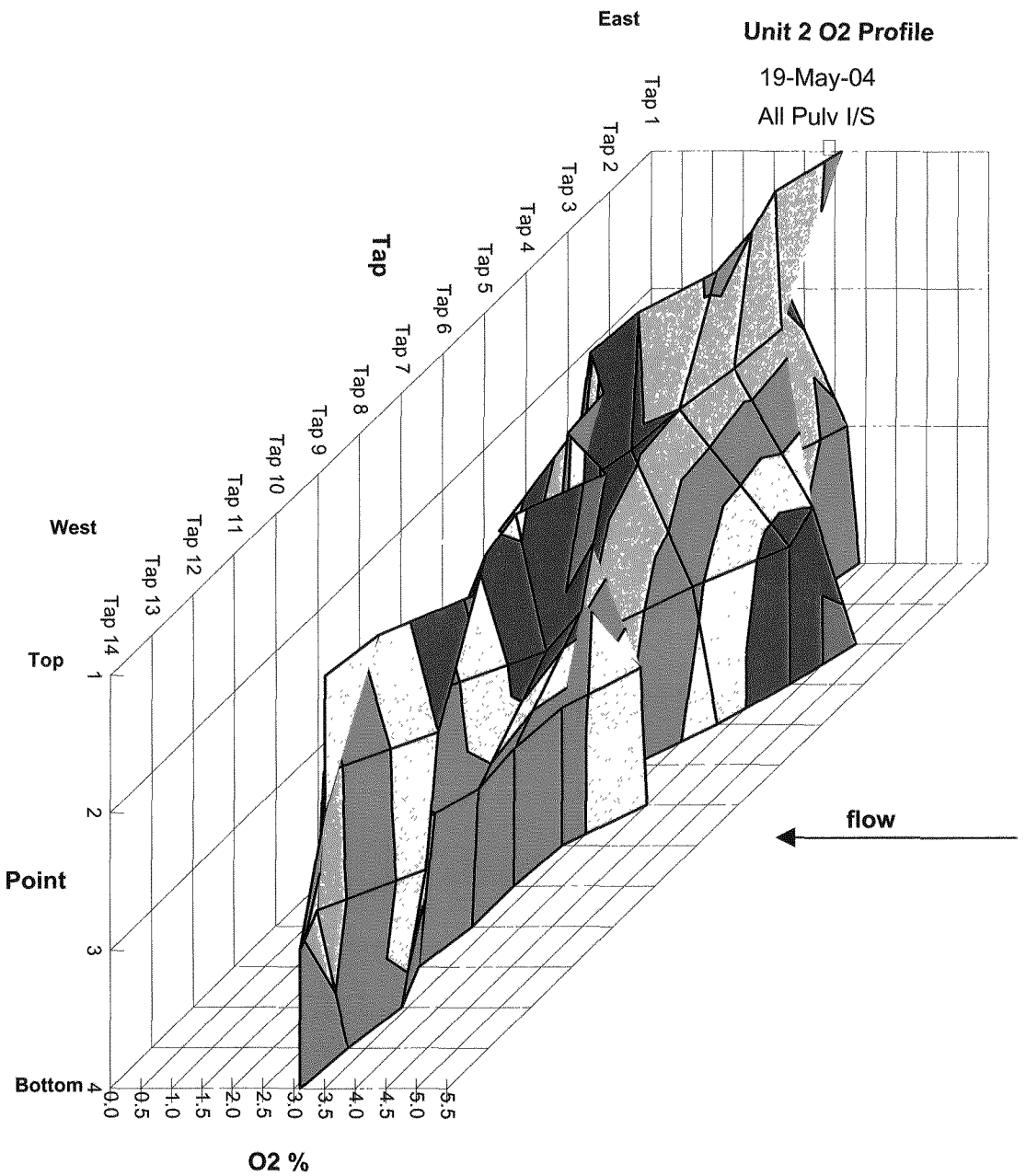
Burner Settings:

Inner Air	1.5" 8 notches s	3 open (1.5")/ 4th hole
		r2
Spin Vane	3 3/4	
Backwall/ 6th burner	~~3 1/4~~	~~D6, H6, C6 & G6~~

Changes:

r0
r1
r2- bias east to west
r3- take out east to west bias, pinch more
r4- throttling back
r5
r6- Garry- fall back, open everything back open
r7-Bias- reduce WB duct press, increase G & B (lower), re
increase C (although contrary to IBAM info), A & F (based
r8- pushing more air out from center + pushing air east to

IP7_033045


Unit 2 O2 Profile
19-May-04
All Pulv I/S
East
West
Tap
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
Point
Top
1
2
3
Bottom 4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
O2 %
flow

Unit 2 Start Time 5/19/2004 15:56 End Time 5/19/2004 17:04

All Pulv i/s

% O2 East Duct

West						East	Avg
Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	
3.3	2.4	2.5	3.1	3.0	2.7	3.1	2.87
1.6	2.1	2.4	2.5	2.7	2.8	2.2	2.33
3.9	2.7	3.4	4.3	4.0	2.6	3.2	3.44
4.0	3.1	3.8	4.3	4.7	3.1	3.4	3.77
Column Averages							
3.20	2.58	3.03	3.55	3.60	2.80	2.98	

Avg %O2 East = 3.10 Hi %O2 = 4.70 Lo % O2 = 1.60 O2 Range = 3.10

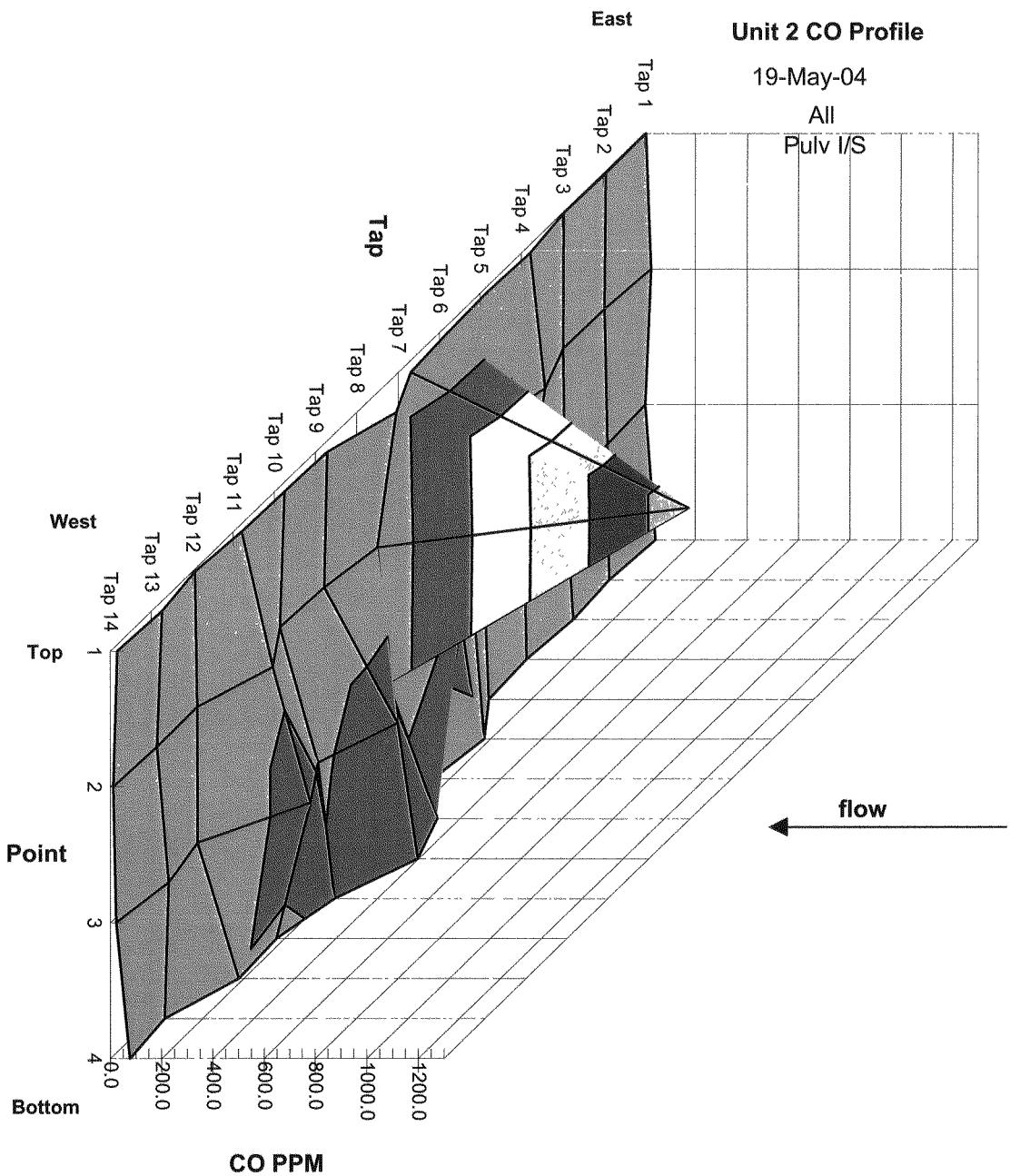
% O2 West Duct

West						East	Avg
Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	
3.5	3.7	4.6	4.1	3.9	4.7	3.4	3.99
3.5	2.8	4.0	3.2	4.4	4.3	3.2	3.63
3.1	2.7	3.8	2.8	3.3	3.2	3.3	3.17
3.1	3.2	3.4	3.0	3.2	3.2	3.3	3.20
Column Averages							
3.30	3.10	3.95	3.28	3.70	3.85	3.30	

Avg %O2 West = 3.50 Hi %O2 = 4.7 Lo % O2 = 2.7 O2 Range = 2

Whole Duct Information

Avg %O2 = 3.30 Hi %O2 = 4.70 Lo % O2 = 1.60 O2 Range = 3.1


Unit 2 CO Profile
19-May-04
All
Pulv I/S
East
West
Tap
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
Point
Top
Bottom
1
2
3
4
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
CO PPM
flow

Unit 2 Start Time 5/19/2004 15:56 End Time 5/19/2004 17:04

All Pulv i/s

West — PPM CO East Duct — East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
49	32	25	35	6	10	7	23.43
1135	382	12	94	4	5	27	237.00
231	132	12	11	12	17	5	60.00
135	175	33	21	44	23	44	67.86
Column Averages							
388	180	21	40	17	14	21	

Avg CO East = 97 Hi ppm CO = 1135 Lo ppm CO = 4 CO Range = 1131

West — PPM CO West Duct — East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
27	42	10	32	40	46	152	49.86
11	22	18	153	21	35	79	48.43
22	67	20	300	170	317	121	145.29
76	51	180	167	234	396	311	202.14
Column Averages							
34	46	57	163	116	199	166	

Avg CO West = 111.4 Hi ppm CO = 396 Lo ppm CO = 10 CO Range = 386

Whole Duct Information

Avg ppm CO = 104 Hi ppm CO= 1135 Lo ppm CO = 4 CO Range = 1131

5/19/04

17:04

Unit #2 Start Time 15:56 End Time 16:04

West **% O2 East Duct / CO - Time** **East** O2/CO-Time

Tap 7	Tap 6 16:-	Tap 5 16:-	Tap 4 16:-	Tap 3 16:-	Tap 2 16:-	Tap 1 15:
3.3/49-55:36	2.4/32-46:06	2.5/25-35:36	3.1/35-26:36	3.0/6 16:26	2.7/10-07:16	3.1/7-56:36
1.6/1135-58:36	2.1/382-48:46	2.4/12-37:56	2.5/94-29:26	2.7/4 19:06	2.8/5-09:26	2.2/27-59:36
3.9/231-00:36	2.7/132-51:16	3.4/12-40:16	4.3/11-31:26	4.0/12-21:36	2.6/17-11:46	3.2/5-02:26
4.0/135 02:46	3.1/75-53:46	3.8/33-42:36	4.3/21-33:26	4.7/44-23:26	3.1/23-13:56	3.4/44-05:06
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West **% O2 West Duct / CO - Time** **East** O2/CO - Time

Tap 14	Tap 13 16:-	Tap 12 16:-	Tap 11 16:-	Tap 10 16:-	Tap 9 16:-	Tap 8 15:
3.5/27-56:06	3.7/42-46:26	4.6/10-36:26	4.1/32-27:26	3.9/40-17:16	4.7/46-07:36	3.4/152-57:26
3.5/11-58:56	2.8/22-48:56	4.0/18-38:36	3.2/153-30:06	4.4/21-19:26	4.3/35-09:56	3.2/79-00:26
3.1/22-01:06	2.7/67-51:36	3.8/20-40:36	2.8/300-32:06	3.3/170-21:56	3.2/317-12:16	3.3/121-02:56
3.1/76-03:06	3.2/51-54:06	3.4/180-43:16	3.0/167-33:56	3.2/234-23:36	3.2/396-14:26	3.3/511-05:36
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

thurs 5-20-04 @ R9r all OK except D3 & D4 OR @ 5.5"

8:15	East O2	3.39	CO 120	West O2	3.87	CO 74	
8:20	East O2	3.51	CO 119	West O2	3.85	CO 72	
8:25	East O2	3.69	CO 51	West O2	3.60	CO 34	
8:30	East O2	3.76	CO 25	West O2	3.42	CO 101	
8:35	East O2	3.57	CO 73	West O2	3.67	CO 135	
8:40	East O2	3.51	CO 66	West O2	3.53	CO 55	
8:45	East O2	3.39	CO 103	West O2	3.62	CO 53	
8:50	East O2	3.30	CO 198	West O2	3.34	CO 1095	swing
8:55	East O2	3.83	CO 26	West O2	3.53	CO 340	"
9:00	East O2	4.16	CO 25	West O2	3.89	CO 52	"

hooking up pt 7-2

pt 7-2

				Ave			
9:05	East O2	4.41	CO 48 600	West O2	3.62	CO 75	
9:10	East O2	2.96	CO 252 +400	West O2	3.84	CO 69	
9:15	East O2	3.75	CO 114	West O2	3.64	CO 309	

moving Spin E3 3.75 to 4 1/4 , E4 4.5" to 4 1/4"

E3, E4

	7-2						
9:20	East O2	4.42	CO 23	West O2	4.22	CO 49	swing
9:25	7-2 O2	3.50	CO 284	West O2	2.75	CO 958	
9:30	7-2 O2		CO	West O2		CO	

@ 9:45 back to ave till mill problem resolved
@ 9:20 West side O2 dropped out & ~~east~~ CO ↑

F pulv O/S could not get started swing gate problem
Coal air & Fdr bias still in

10:25	East O2	3.61	CO 414	West O2	2.68	CO 351	
10:30	East O2	3.63	CO 96	West O2	2.53	CO 700	
10:35	East O2		CO	West O2		CO	

G pulv tripped →

F pulv O/S swing gate problem , Coal + Fdr bias still in

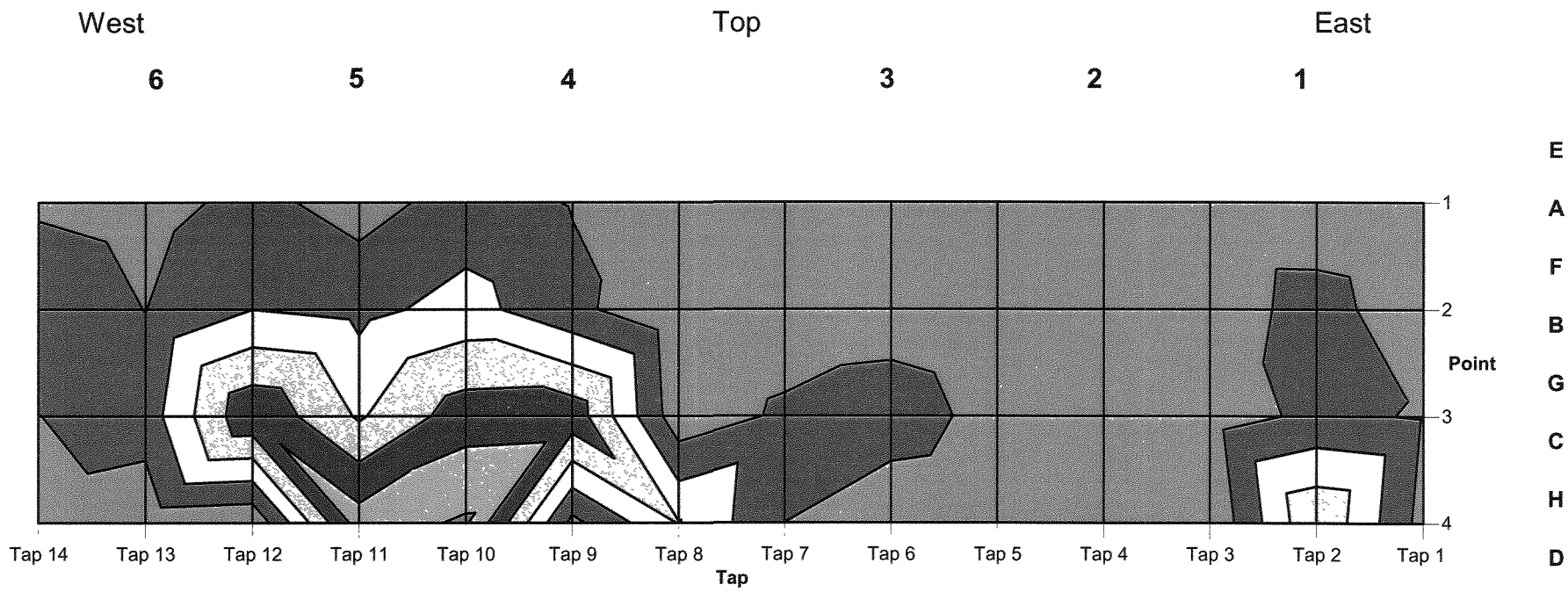
12:10	East O2	3.19	CO 271	West O2	2.45	CO 890	
12:15	East O2	3.48	CO 118	West O2	2.55	CO 596	
12:20	East O2	3.52	CO 164	West O2	2.72	CO 408	
12:25	East O2	3.55	CO 66	West O2	2.70	CO 486	
12:30	East O2	3.26	CO 203	West O2	2.48	CO 859	
12:35	East O2	3.43	CO 314	West O2	2.75	CO 635	
12:40	East O2	3.23	CO 350	West O2	2.59	CO 690	

F O/S profile taken

TOPS 35500

U2 F Pulv o/s 5-20-04

CO Profile



CO ppm

0.0-200.0 | 200.0-400.0 | 400.0-600.0 | 600.0-800.0 | 800.0-1000.0 | 1000.0-1200.0 | 1200.0-1400.0

IP7_033052

Unit 2 Start Time 5/20/2004 13:35 End Time 5/20/2004 14:48

F Pulv o/s

West % O2 East Duct East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
4.5	3.7	3.0	3.2	3.1	3.3	4.1	3.56
4.0	3.7	3.1	3.7	3.3	2.6	3.5	3.41
4.1	3.1	3.4	3.2	3.2	2.9	3.7	3.37
4.9	4.7	4.7	5.5	5.0	2.0	3.2	4.29
Column Averages							
4.38	3.80	3.55	3.90	3.65	2.70	3.63	

Avg %O2 East = 3.66 Hi %O2 = 5.50 Lo % O2 = 2.00 O2 Range = 3.50

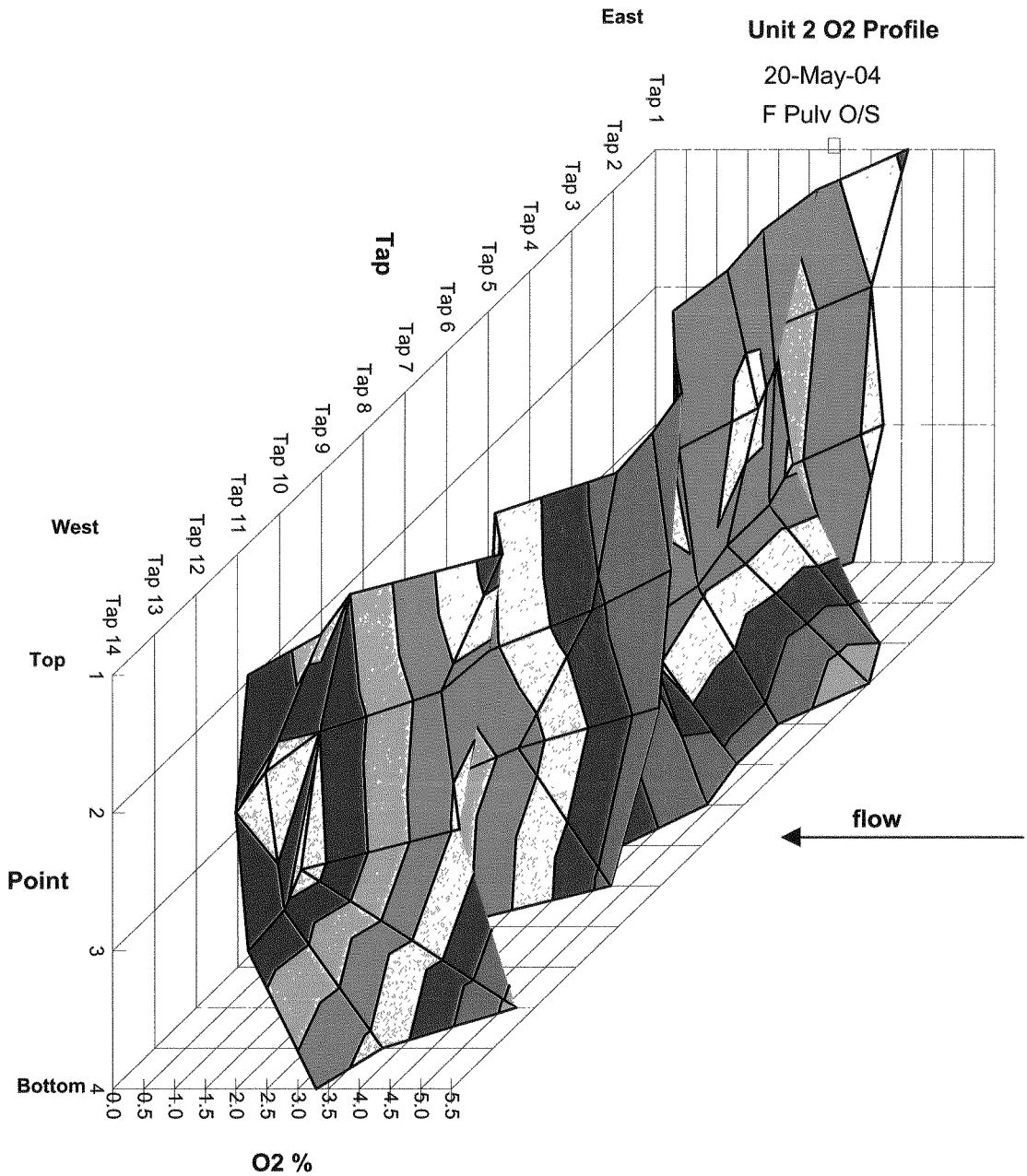
West % O2 West Duct East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
2.2	2.7	2.5	4.3	3.5	4.8	4.7	3.53
2.0	1.8	2.0	3.3	3.4	4.4	5.0	3.13
2.2	2.1	1.7	3.6	2.3	3.2	4.8	2.84
3.3	3.7	5.2	3.1	2.7	4.7	4.2	3.84
Column Averages							
2.43	2.58	2.85	3.58	2.98	4.28	4.68	

Avg %O2 West = 3.34 Hi %O2 = 5.2 Lo % O2 = 1.7 O2 Range = 3.5

Whole Duct Information

Avg %O2 = 3.50 Hi %O2 = 5.50 Lo % O2 = 1.70 O2 Range = 3.8


Unit 2 O2 Profile
20-May-04
F Pulv O/S
East
West
Tap
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
Point
Top
1
2
3
Bottom 4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
O2 %
flow

U2 F Pulvo/s 5-20-04

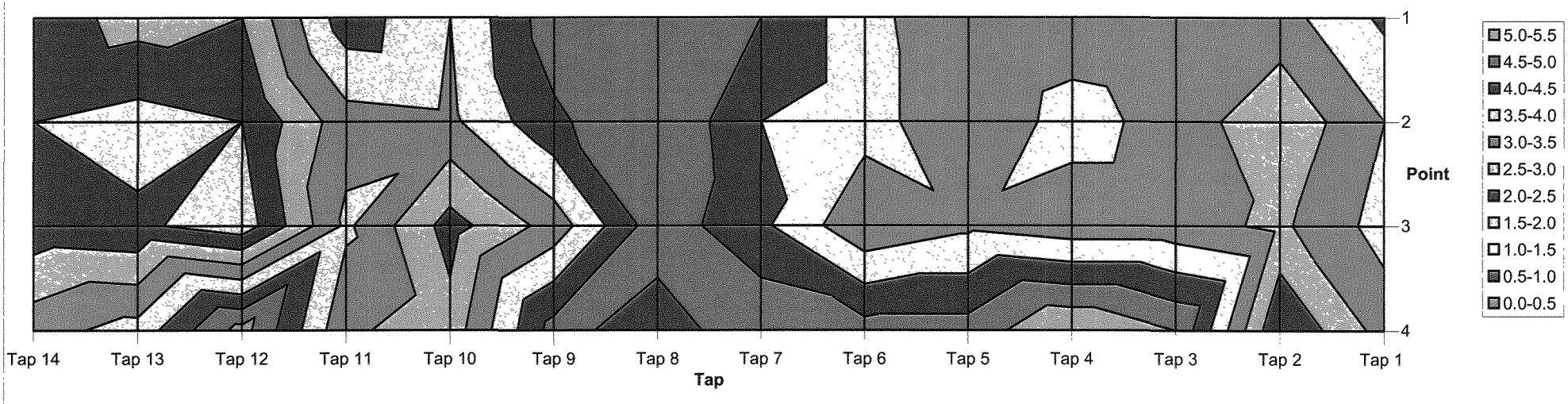
O2 Profile

West

Top

East

O2%



Bottom

IP7_033055

5/20/04 - F 005

Unit #2 Start Time 13:35 End Time 14:48

West **% O2 East Duct /CO** **East** O_2/CO Time

Tap 7 14:--:--	Tap 6	Tap 5	Tap 4 14:--:--	Tap 3	Tap 2 13:--	Tap 1 13:--
4.5/28-39:46	3.7/101-28:06	3.0/50-17:06	3.2/56-07:06	3.1/62-55:56	3.3/58-44:46	4.1/12-35:06
4.0/82-41:26	3.7/104-30:56	3.1/45-20:16	3.7/8-09:26	3.3/81-57:56	2.6/284-47:56	3.5/61-37:56
4.1/233-43:56	3.1/306-33:46	3.4/124-22:26	3.2/51-12:16	3.2/116-01:06	2.9/240-49:56	3.7/136-40:26
4.9/199-46:06	4.7/57-36:26	4.7/21-25:16	5.5/6-14:16	5.0/25-03:46	2.0/788-53:26	3.2/131-42:36
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West **% O2 West Duct /CO** **East** O_2/CO - Time

Tap 14	Tap 13	Tap 12	Tap 11 14:--:--	Tap 10	Tap 9 13:--:--	Tap 8 13:--:--
2.2/173-39:16	2.7/127-29:06	2.5/257-18:16	4.3/118-07:26	3.5/285-56:16	4.8/189-45:36	4.7/56-35:46
2.0/327-41:16	1.8/197-31:16	2.0/400-20:36	3.3/344-09:26	3.4/473-59:16	4.4/284-48:16	5.0/26-38:26
2.2/197-44:16	2.1/293-34:06	1.7/967-22:56	3.6/576-12:36	2.3/909-01:56	3.2/926-51:06	4.8/72-40:46
3.3/120-47:16	3.7/69-36:36	5.2/31-25:46	3.1/1096-14:46	2.7/max-04:26	4.7/145-53:56	4.2/610-43:16
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

IP7_033056

Unit 2 Start Time 5/20/2004 13:35 End Time 5/20/2004 14:48

F Pulv os

West — PPM CO East Duct — East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
28	101	50	56	62	58	12	52.43
82	104	45	8	81	284	61	95.00
233	306	124	51	116	240	186	179.43
199	57	21	6	25	788	131	175.29
Column Averages							
136	142	60	30	71	343	98	

Avg CO East = 126 Hi ppm CO = 788 Lo ppm CO = 6 CO Range = 782

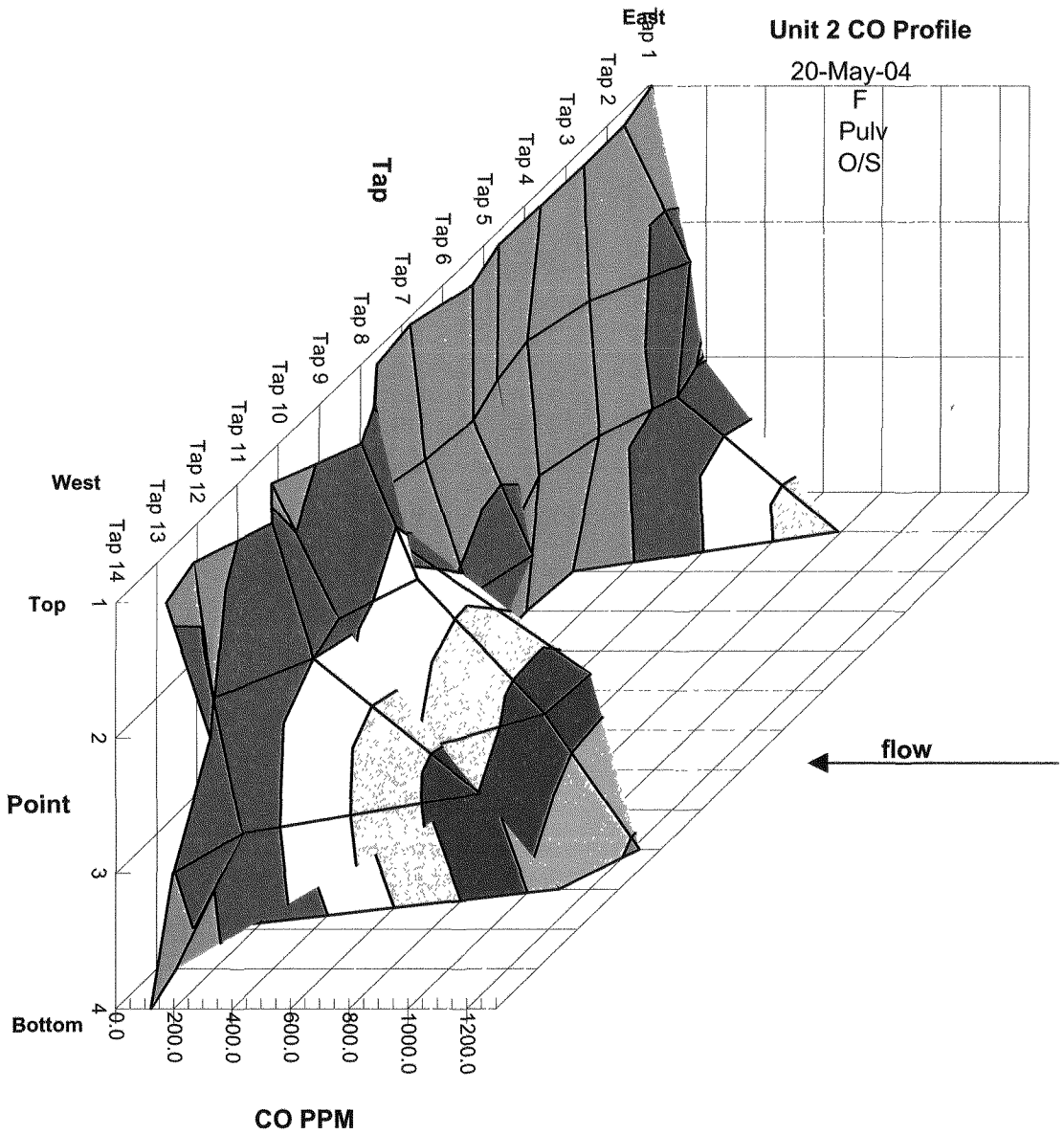
West — PPM CO West Duct — East

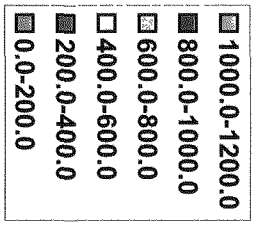
Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
173	127	257	118	285	189	56	172.14
327	197	400	344	473	254	26	288.71
197	293	967	576	908	926	72	562.71
120	69	31	1096	1228	145	610	471.29
Column Averages							
204	172	414	534	724	379	191	

Avg CO West = 373.7 Hi ppm CO = 1228 Lo ppm CO = 26 CO Range = 1202

Whole Duct Information

Avg ppm CO = 250 Hi ppm CO= 1228 Lo ppm CO = 6 CO Range = 1222


Unit 2 CO Profile
20-May-04
F
Pulv
O/S
East
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
West
Tap
Top
1
2
3
4
Bottom
Point
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
CO PPM
flow


1000.0-1200.0
800.0-1000.0
600.0-800.0
400.0-600.0
200.0-400.0
0.0-200.0

U2
Fri

5-21-04
All pulv I/S @ r9r with E3 + E4 @ 4 1/4" spin, D3 + D4 @ 5.5

7:40	East O2	2.98	CO	439	West O2	3.16	CO	191
7:45	East O2	2.54	CO	461	West O2	3.39	CO	82
7:50	East O2	2.85	CO	425	West O2	3.10	CO	117
7:55	East O2	2.52	CO	553	West O2	3.29	CO	122
8:00	East O2	2.59	CO	738	West O2	3.31	CO	118
8:05	East O2	2.73	CO	460	West O2	3.29	CO	84
8:10	East O2	2.68	CO	609	West O2	3.30	CO	108
8:15	East O2	2.66	CO	261	West O2	3.17	CO	67

8:20	East O2	2.73	CO	516	7-2 O2	3.08	CO	816
8:25	East O2	3.17	CO	190	7-2 O2	2.99	CO	576
8:30	East O2	2.96	CO	81	7-2 O2	2.94	CO	311

move A3 spin 3 3/4 to 4 1/4 A4 4.5" to 4 1/4"

8:40	East O2	2.83	CO	188	7-2 O2	3.62	CO	86
8:45	East O2	3.15	CO	180	7-2 O2	3.34	CO	19
8:50	East O2	2.96	CO	210	7-2 O2	2.35	CO	554

← swing both

@9:10 moving D row to D1 7.5 D3 5.0 D4 5.0 D5 6.5

9:15	East O2	3.39	CO	137	7-2 O2	3.22	CO	339
9:20	East O2	3.14	CO	191	7-2	3.33	CO	52
9:25	East O2	2.87	CO	270	7-2	3.52	CO	242

– swing

moving D row D1 8.0 D3 4.5 D4 4.5 D5 7.0

9:35	East O2	2.83	CO	332	7-2 O2	3.36	CO	143
9:40	East O2	2.76	CO	227	7-2	2.80	CO	282
9:45	East O2	2.94	CO	316	7-2	2.83	CO	623

F row move F3 3 3/4 to 4 1/4 F4 4 1/2 to 4 1/4

9:55	East O2	3.30	CO	190	7-2 O2	3.20	CO	57
10:00	East O2	3.31	CO	132	7-2	2.71	CO	253
10:05	East O2	3.43	CO	74	7-2	3.91	CO	23
10:10	East O2	3.44	CO	148	7-2 O2	2.97	CO	151

E4 4 1/4 to 4.5

10:20	East O2	3.45	CO	183	7-2 O2	3.09	CO	156
10:25	East O2	3.50	CO	90	7-2 O2	3.23	CO	153
10:30	East O2	3.42	CO	137	7-2 O2	2.58	CO	88
~~back E4 to 4 1/4"~~								
10:35	East O2	3.36	CO	159	7-2 O2	3.06	CO	49

– swing

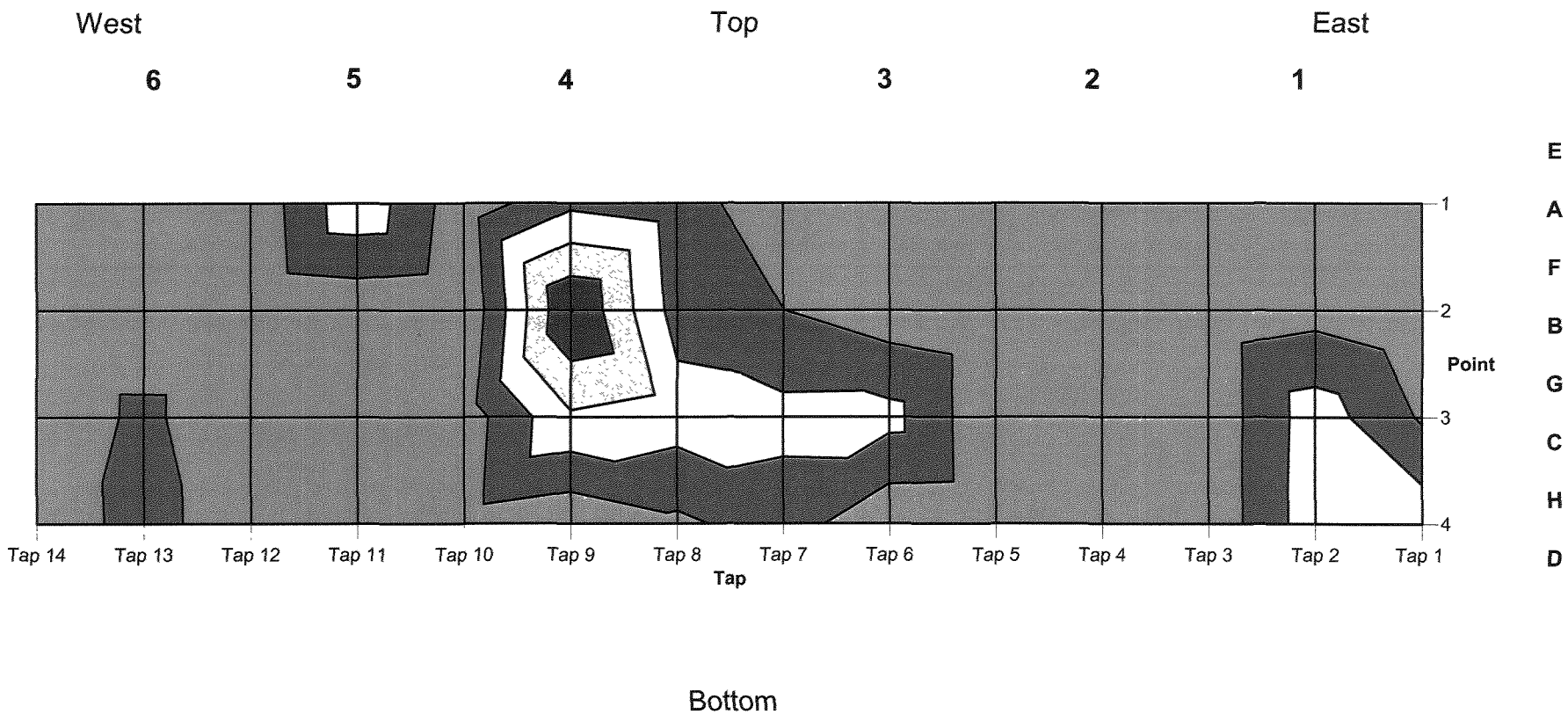
profile @ r10 settings

TOPS 35500

IP7_033059

U2 All Pulv i/s 5-21-04

CO Profile



CO ppm

0.0-200.0 | 200.0-400.0 | 400.0-600.0 | 600.0-800.0 | 800.0-1000.0 | 1000.0-1200.0 | 1200.0-1400.0

IP7_033060

U2 All Pulv i/s 5-21-04

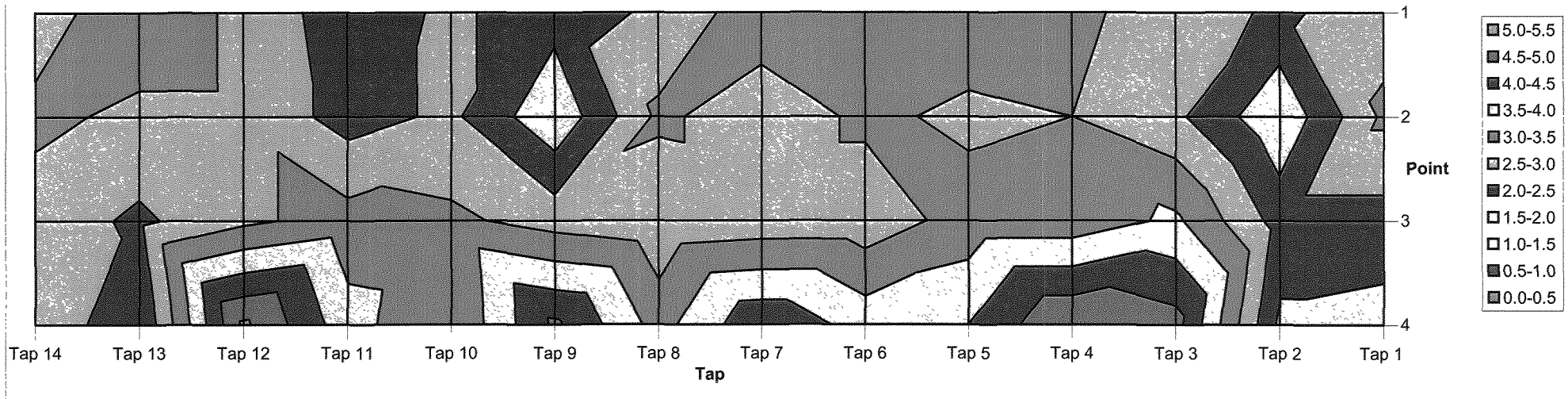
O2 Profile

West

Top

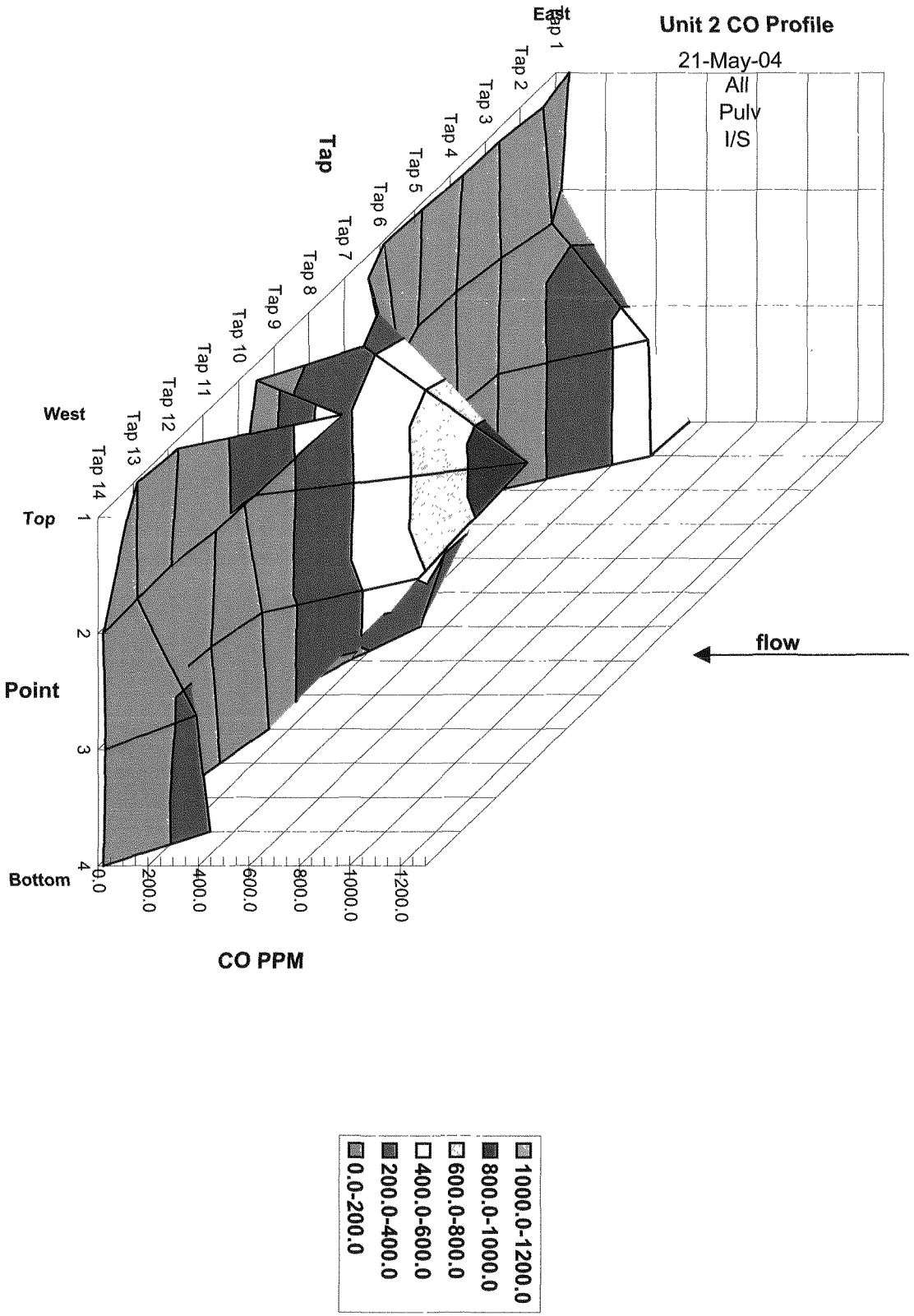
East

O2%



Bottom

IP7_033061


Unit 2 CO Profile
21-May-04
All
Pulv
I/S
East
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
West
Tap
Top
1
2
3
4
Bottom
Point
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
CO PPM
flow
1000.0-1200.0
800.0-1000.0
600.0-800.0
400.0-600.0
200.0-400.0
0.0-200.0

Unit 2 Start Time 5/21/2004 10:43 End Time 5/21/2004 11:56

All Pulv i/s

West — PPM CO East Duct — East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
94	15	30	51	56	91	53	55.71
201	80	13	25	63	127	22	75.86
460	464	20	29	52	509	177	244.43
300	44	28	12	51	521	533	212.71
Column Averages							
264	151	23	29	56	312	196	

Avg CO East = 147 Hi ppm CO = 533 Lo ppm CO = 12 CO Range = 521

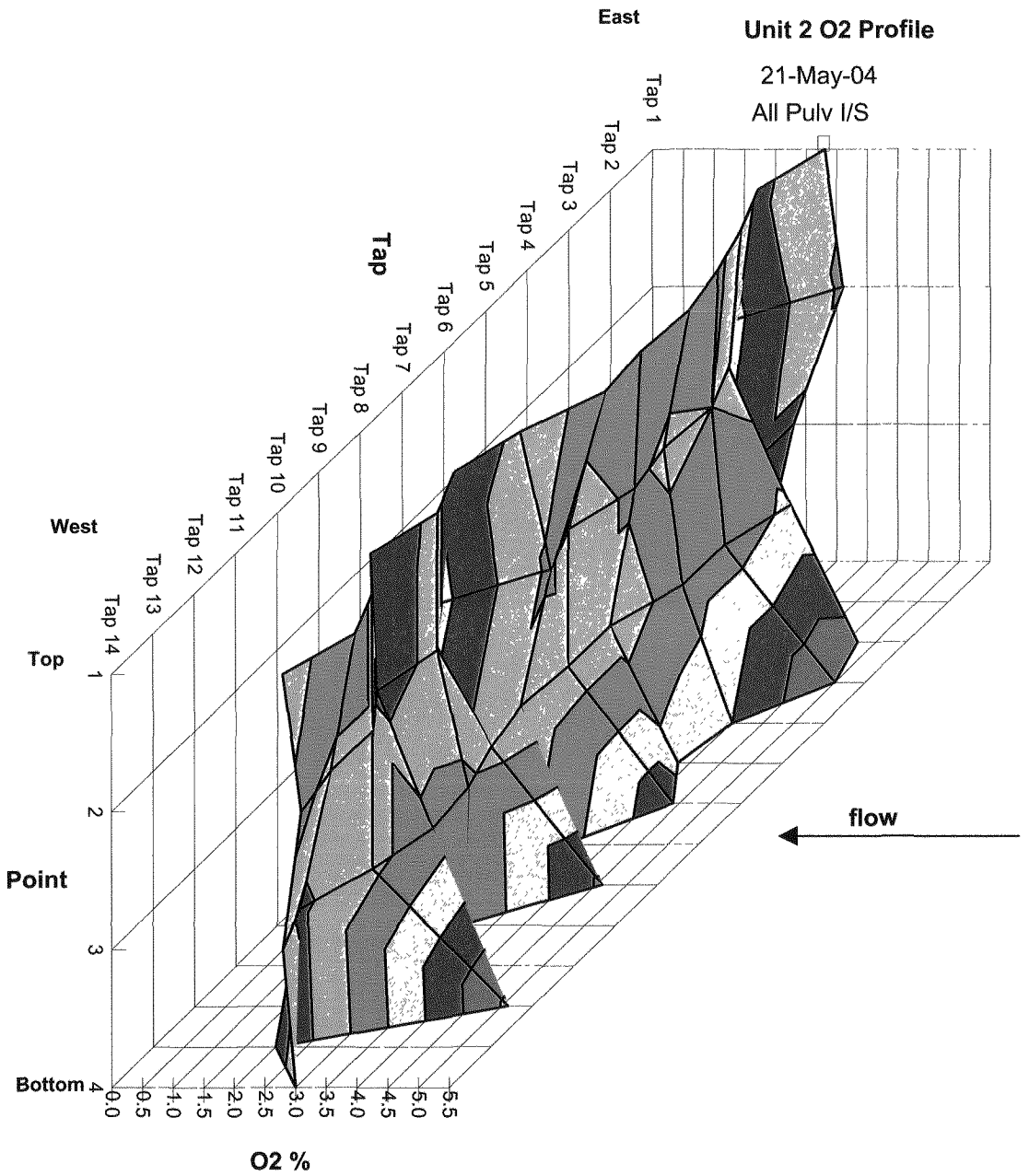
West — PPM CO West Duct — East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
118	16	41	550	70	357	275	203.86
21	16	14	52	17	1007	316	206.14
30	250	10	33	91	572	493	211.29
21	306	14	67	118	41	160	103.86
Column Averages							
48	147	20	176	74	494	311	

Avg CO West = 181.3 Hi ppm CO = 1007 Lo ppm CO = 10 CO Range = 997

Whole Duct Information

Avg ppm CO = 164 Hi ppm CO= 1007 Lo ppm CO = 10 CO Range = 997


Unit 2 O2 Profile
21-May-04
All Pulv I/S
East
West
Tap
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
Point
Top
1
2
3
Bottom 4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
O2 %
flow

Unit 2 Start Time 5/21/2004 10:43 End Time 5/21/2004 11:56

All Pulv i/s

West — % O2 East Duct — East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
3.3	3.2	3.3	3.1	2.8	2.4	2.8	2.99
2.7	3.1	2.9	3.0	2.6	1.6	3.1	2.71
2.7	2.7	3.2	3.2	3.6	2.3	2.3	2.86
4.4	3.8	4.0	5.0	4.7	1.9	1.8	3.66
Column Averages							
3.28	3.20	3.35	3.58	3.43	2.05	2.50	

Avg %O2 East = 3.05 Hi %O2 = 5.00 Lo % O2 = 1.60 O2 Range = 3.40

West — % O2 West Duct — East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
2.8	3.3	2.9	2.2	2.6	2.2	2.6	2.66
3.1	2.9	2.9	2.3	2.6	1.6	3.1	2.64
2.8	2.4	2.9	3.2	3.1	2.8	2.6	2.83
3.0	2.0	5.1	3.7	3.0	4.6	3.3	3.53
Column Averages							
2.93	2.65	3.45	2.85	2.83	2.80	2.90	

Avg %O2 West = 2.91 Hi %O2 = 5.1 Lo % O2 = 1.6 O2 Range = 3.5

Whole Duct Information

Avg %O2 = 2.98 Hi %O2 = 5.10 Lo % O2 = 1.60 O2 Range = 3.5

U2 5/21/04 All 8 pulv 11s

Unit #2 Start Time 10:43 End Time 11:56:00

West **% O2 East Duct / CO ppm** **East**

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3 (11:--:--)	Tap 2	Tap 1 (10:--:--)
3.3/94-47:40	3.2/15-37:40	3.3/30-23:00	3.1/51-14:30	2.8/56-4:30	2.4/91-54:00	2.8/53-43:50
2.7/201-50:10	3.1/30-39:40	2.9/13-31:10	3.0/25-17:10	2.6/63-6:50	1.6/127-57:10	3.1/22-47:30
2.7/460-53:00	2.7/464-42:40	3.2/20-33:30	3.2/29-19:30	3.6/52-9:10	2.3/509-59:10	2.3/177-49:40
4.4/300-55:10	3.8/44-44:50	4.0/28-35:30	5.0/12-21:40	4.7/51-11:30	1.9/521-62:10	1.8/533-51:50
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West **% O2 West Duct / CO ppm** **East**

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10 (11:--:--)	Tap 9 (10:--:--)	Tap 8
2.8/118-48:10	3.3/16-38:10	2.9/41-29:20	2.2/550-14:50	2.6/70-4:50	2.2/357-54:30	2.6/275-45:30
3.1/21-50:30	2.9/16-40:30	2.9/14-31:50	2.3/52-17:30	2.6/17-7:30	1.6/1007-57:20	3.1/316-47:50
2.8/30-53:30	2.4/250-43:20	2.9/10-33:40	3.2/33-19:40	3.1/91-9:40	2.8/572-59:50	2.6/493-50:00
3.0/21-56:00	2.0/306-46:00	5.1/14-35:50	3.7/67-22:00	3.0/118-12:10	4.6/41-02:40	3.3/160-57:10
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

G-6

r10 21

ABT- predicted outer air register settings for air flow balancing

~~r9~~ 5/~~19~~/2004

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

UNIT 2

			Spin Vanes	Inner Air	r7 5/17/04	r8 5/18/04	r10 5/~~19~~/2004 21
Front	Pulv	E1	3.75	1.5	6.5	6.3	6.5
		E2	3.75	1.5	5.4	5.1	5.3
	min	E3	4 25	1.5	5.0	4.6	4.7
	E	E4	4 50	1.5	5.1	4.7	4.8
		E5	3.75	1.5	5.7	5.3	5.4
		E6	3.75	1.5	6.8	6.6	6.6
	Pulv	A1	3.75	1.5	8.7	8.5	8.7
		A2	3.75	1.5	7.3	6.8	7.0
	A	A3	4 25	1.5	6.6	6.1	6.3
		A4	4 25	1.5	6.9	6.3	6.5
		A5	3.75	1.5	7.6	7.0	7.2
		A6	3.75	1.5	9.2	8.9	8.9
	Pulv	F1	3.75	1.5	6.8	6.5	6.8
		F2	3.75	1.5	5.6	5.3	5.4
	F	F3	4 25	1.5	5.1	4.7	4.9
		F4	4 25	1.5	5.3	4.8	5.0
		F5	3.75	1.5	5.9	5.4	5.6
		F6	3.75	1.5	7.1	6.9	6.9
	Pulv	B1	3.75	1.5	10.3	10.0	10.3
		B2	3.75	1.5	8.6	8.0	8.3
	B	B3	3.75	1.5	7.8	7.2	7.5
		B4	3.75	1.5	8.1	7.4	7.6
		B5	3.75	1.5	8.9	8.3	8.5
		B6	3.75	1.5	10.8	10.5	10.5
ave (front)			8.4		7.1	6.7	6.9

			Spin Vanes	Inner Air	r7 5/17/04	r8 5/18/04	r10 5/~~19~~/2004 21
Rear	Pulv	D1	3.75	1.5	7.3	7.1	8.0
		D2	3.75	1.5	6.1	4.7	4.7
	D	D3	3.75	1.5	5.5	4.0	4.5
		D4	3.75	1.5	5.7	4.5	4.5
		D5	3.75	1.5	6.3	6.3	7.0
		D6	5.00	1.5	7.6	10.3	10.3
	Pulv	H1	3.75	1.5	9.4	9.1	9.3
		H2	3.75	1.5	7.8	7.3	7.5
	H	H3	3.75	1.5	7.1	6.6	6.8
		H4	3.75	1.5	7.3	6.7	6.9
		H5	3.75	1.5	8.1	7.5	7.7
		H6	3.75	1.5	9.8	9.5	9.5
	Pulv	C1	3.75	1.5	8.3	8.1	8.3
		C2	3.75	1.5	7.0	6.5	6.7
	C	C3	3.75	1.5	6.3	5.9	6.1
		C4	3.75	1.5	6.5	6.0	6.2
		C5	5.00	1.5	7.2	6.7	6.9
		C6	3.75	1.5	8.8	8.5	8.5
	Pulv	G1	3.75	1.5	12.7	12.3	12.6
		G2	3.75	1.5	10.5	9.9	10.2
	G	G3	3.75	1.5	9.6	8.9	9.2
		G4	3.75	1.5	9.9	9.1	9.4
		G5	3.75	1.5	11.0	10.2	10.4
	max	G6	3.75	1.5	13.3	12.9	12.9
		ave (rear)	9.6		8.3	7.8	8.1
	ave (total)		9.0		7.7	7.3	7.5

INPUTS:

	initial	r1	r2	r3	r4	r5	r7
Initial Outer Register Setting Refere (max setting on rear- 1st, row, oute	11.0	10.0	10.0	10.0	9.0	8.0	11.0

S:		r0	r1	r2	r3	r7
Front to Rear BIAS	Front	0.88	0.88	0.85	0.82	0.85
push to rear wall	Rear	1.00	1.00	1.00	1.00	1 00

	outer (1/ 6)	nner (2/ 5	center (3/4)	
Inner to Outer Burner I	1.00	0.96	0.94	r0
w/ baffles	1.00	0.95	0.92	r1
	1.00	0.92	0.88	r2
	1.00	0.90	0.85	r3
	1.00	0.85	0.80	r7
	1.02	0.84	0.78	r8

	6 (west)	5	4	3	2	1 (east)	
Side to Side Bias	1.00	1.00	1.00	1.00	1.00	1.00	r0
push from east to west	1.00	0.95	0.92	0.90	0.92	0.96	r1
	1.00	1.00	1.00	1.00	1.00	1.00	r3
	1.05	1.02	0.98	0.95	0.98	1.00	r7
	1.00	0.98	0.95	0.93	0.96	0.98	r8

		initial	r1	r2	r3	r6
Top to Bottom BIAS	4th- E/ D	0.88	0.86	0.82	0.82	0.82
push to bottom	3rd- A/ H	0.90	0.88	0.85	0.85	0.85
	2nd- F/ C	0.92	0.88	0.85	0.85	0 85
	1st- B/ G	1.00	1.00	1.00	1.00	1.00
Windbox Sizing Bias (r	2nd & 4th	0.95	0.90	0.90	0.85	0.85
	1st& 3rd	1.00	1.00	1.00	1.00	1.00

						r7
Extra Bias based on R	Pulv 2E (f-4th)					1 00
	Pulv 2D (r-4th)				0.95	0.95
	Pulv 2A (f-3rd)				1.05	1.10
	Pulv 2H (r- 3rd)				1.05	1.00
	Pulv 2F (f-2nd)			0.95	0.92	1.00
	Pulv 2C (r-2nd)		0.85	0.80		1.05
	Pulv 2B (f-1st)		1.07	1.07	1.10	1 10
	Pulv 2G (r-1st)			1.05	1.10	1.15

Burner Settings:

Inner Air	1.5" 8 notches ε 3 open (1.5")/ 4th hole
	r2
Spin Vane	3 3/4
Backwall/ 6th burner	~~3 1/4~~ ~~D6, H6, C6 & G6~~

Changes:

r0
r1
r2- bias east to west
r3- take out east to west bias, pinch more
r4- throttling back
r5
r6- Garry- fall back, open everything back open
r7-Bias- reduce WB duct press, increase G & B (lower), re
increase C (although contrary to IBAM info), A & F (based
r8- pushing more air out from center + pushing air east to

IP7_033067

U2

Fri

5-21-04 @ R 10? settings

C Pulv O/S R11

13:00	East O2	3.46	CO	218	West O2	2.18	CO	448	G8 outer 13
13:05	East O2	3.24	CO	354	West O2	2.33	CO	434	Spin 4
13:10	East O2	3.24	CO	188	West O2	2.59	CO	428	
13:15	East O2	3.13	CO	295	West O2	2.45	CO	428	
13:20	East O2	3.38	CO	231	West O2	2.44	CO	509	
13:25	East O2	3.17	CO	335	West O2	2.25	CO	560	
13:30	East O2	3.35	CO	152	West O2	2.61	CO	432	
13:35	East O2	3.46	CO	202	West O2	2.25	CO	635	
13:40	East O2	3.37	CO	183	West O2	2.39	CO	464	
13:45	East O2	3.42	CO	173	West O2	2.20	CO	680	
13:50	East O2	3.34	CO	208	West O2	2.35	CO	405	

move H3 + H4 to 4" spin, B4 spin to 4", D1 OR back 7.5
D5 OR back 6.5

14:05	East O2	3.13	CO	126	West O2	2.47	CO	475
14:10	East O2	3.13	CO	159	West O2	2.12	CO	768
14:15	East O2	3.14	CO	200	West O2	2.27	CO	701
14:20	East O2	3.21	CO	156	West O2	2.24	CO	737
14:25	East O2	3.23	CO	138	West O2	2.35	CO	525
14:30	East O2	3.06	CO	196	West O2	2.14	CO	707
14:35	East O2	3.07	CO	208	West O2	2.40	CO	496
14:40	East O2	3.38	CO	162	West O2	2.35	CO	459
14:45	East O2	3.66	CO	65	West O2	2.50	CO	449

move F4 + A4 to 4.5" spin

14:50	East O2	3.58	CO	85	West O2	2.50	CO	361
14:55	East O2	3.69	CO	55	West O2	2.71	CO	157

5-22-04 Sent Pulv C O/S settings R12 Dave / Aaron

problems w/ DAS system - sampling (started @ 9:19)
went to pt-pt testing + burner adjustments

Moved H1 9.3 → 10

CO↑ B4 7.6 → 7.8 O2↑ D2 ~~4.7~~ → spin 3 3/4 - 3 1/2
F4 5.0 → 5.2 D3 3 3/4 - 3 1/2
D4 4.5 → 4.8

looks pretty balanced side to side / lower O2 levels

collecting data

@920	East O2	2.9	CO	500	West O2 2.9	CO 330
925		2.8		540	2.9	438
930		2.8		420	2.9	420
935		2.7		850	2.8	646
940		2.9		587	3.1	350
945		3.1		384	3.3	290

Bumped up air flow

PROFILE Baseline for State Testing Pulv C (after change)

©1000 TOPS 35500

Friday 5/21/04 PWV U2 C O/S

Unit ~~1~~ 2 Start Time 15:04 End Time 16:15

West **% O2 East Duct** / CO ppm **East**

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1 15:00
3.8/16 650	4.0/21 5800	3.1/28 4910	3.7/26 3700	2.9/149 2740	2.5/117 1810	2.8/61 - 6:20
3.6/24 840	3.2/62 0060	3.6/26 5140	2.8/12 3910	2.3/126 3010	1.9/181 2000	2.3/141 1040
3.6/120 1030	2.9/150 230	3.5/50 5430	3.5/56 4150	4.1/37 3220	1.8/1020 2240	2.5/282 1310
4.3/100 1340	3.7/63 450	4.5/32 5600	5.3/14 4400	4.7/36 3430	2.6/204 2530	2.7/70 1550
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

West **% O2 West Duct** / CO ppm **East**

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8
2.4/216 710	2.7/156 5820	2.7/233 5020	3.2/285 3720	3.2/323 2810	3.9/406 1820	4.0/158 7:20
2.0/363 900	1.5/584 0030	2.0/523 5230	3.4/90 3940	3.4/272 3030	2.8/852 2050	3.1/167
1.8/424 1110	1.9/289 250	1.9/435 5410	2.7/516 4210	2.7/360 3240	2.6/720 2250	3.5/282
2.0/645 1400	2.5/96 510	3.9/87 5620	2.6/589 4440	2.3/870 3500	3.9/414 2550	3.6/383 1610
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

IP7_033069

Unit 2 Start Time 5/21/2004 15:04 End Time 5/21/2004 16:15

C Pulv o/s

West — PPM CO East Duct — East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
16	21	28	26	149	117	61	59.71
24	62	26	12	126	181	141	81.71
120	150	50	56	37	1020	282	245.00
100	63	32	14	36	204	70	74.14
Column Averages							
65	74	34	27	87	381	139	

Avg CO East = 115 Hi ppm CO = 1020 Lo ppm CO = 12 CO Range = 1008

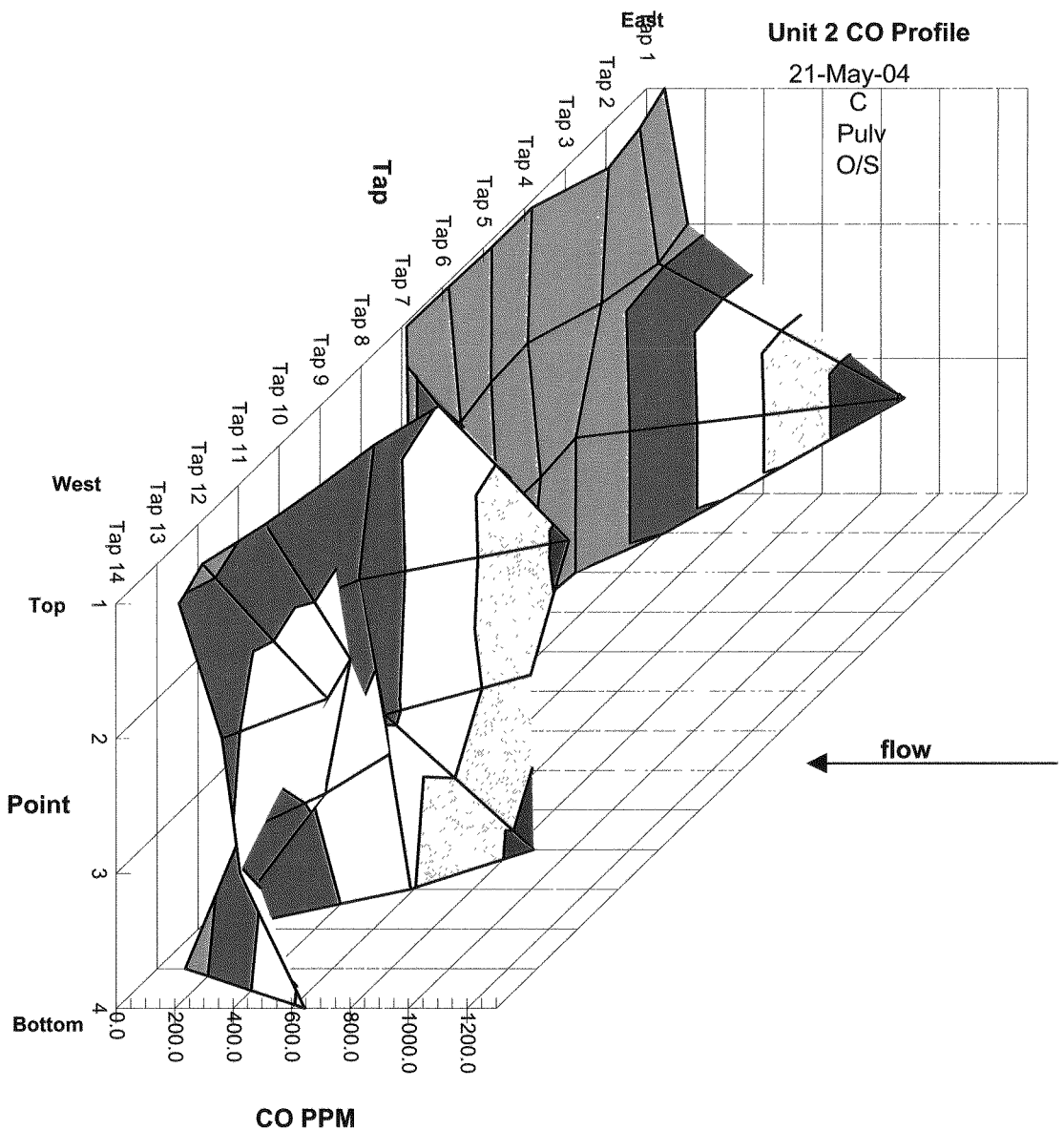
West — PPM CO West Duct — East

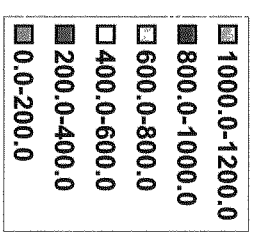
Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
216	156	233	285	323	406	158	253.86
363	584	523	90	272	852	167	407.29
424	289	435	516	360	720	282	432.29
645	96	87	589	870	414	383	440.57
Column Averages							
412	281	320	370	456	598	248	

Avg CO West = 383.5 Hi ppm CO = 870 Lo ppm CO = 87 CO Range = 783

Whole Duct Information

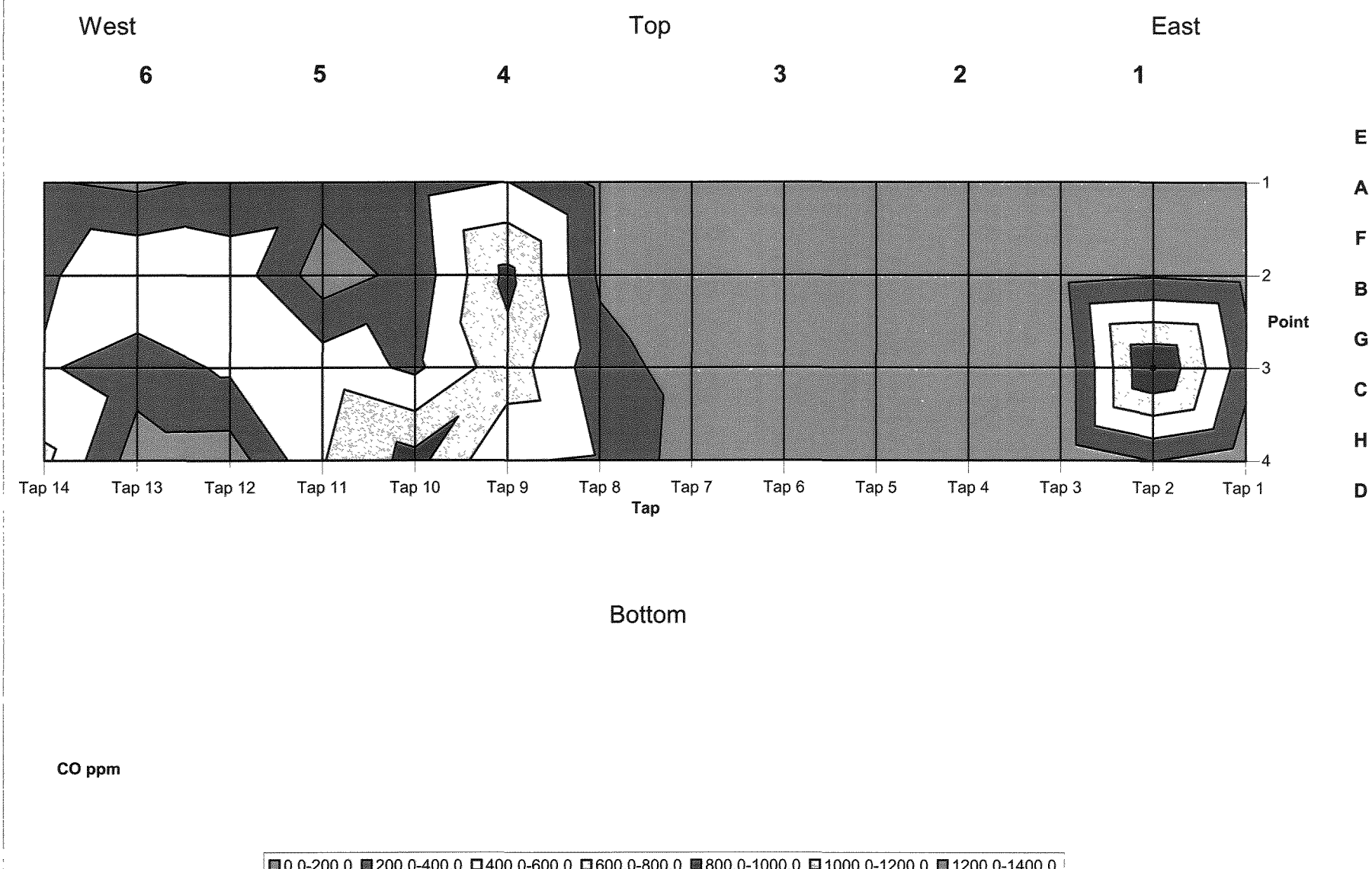
Avg ppm CO = 249 Hi ppm CO= 1020 Lo ppm CO = 12 CO Range = 1008


Unit 2 CO Profile
21-May-04
C
Pulv
O/S
East
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
West
Tap
Top
1
2
3
4
Bottom
Point
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
CO PPM
flow


1000.0-1200.0
800.0-1000.0
600.0-800.0
400.0-600.0
200.0-400.0
0.0-200.0

U2 C Pulv o/s 5-21-04

CO Profile



IP7_033072

Unit 2 Start Time 5/21/2004 15:04 End Time 5/21/2004 16:15

C Pulv o/s

West % O2 East Duct East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
3.8	4.0	3.1	3.7	2.9	2.5	2.8	3.26
3.6	3.2	3.6	2.8	2.3	1.9	2.3	2.81
3.6	2.9	3.5	3.5	4.1	1.8	2.5	3.13
4.3	3.7	4.5	5.3	4.7	2.6	2.7	3.97
Column Averages							
3.83	3.45	3.68	3.83	3.50	2.20	2.58	

Avg %O2 East = 3.29 Hi %O2 = 5.30 Lo % O2 = 1.80 O2 Range = 3.50

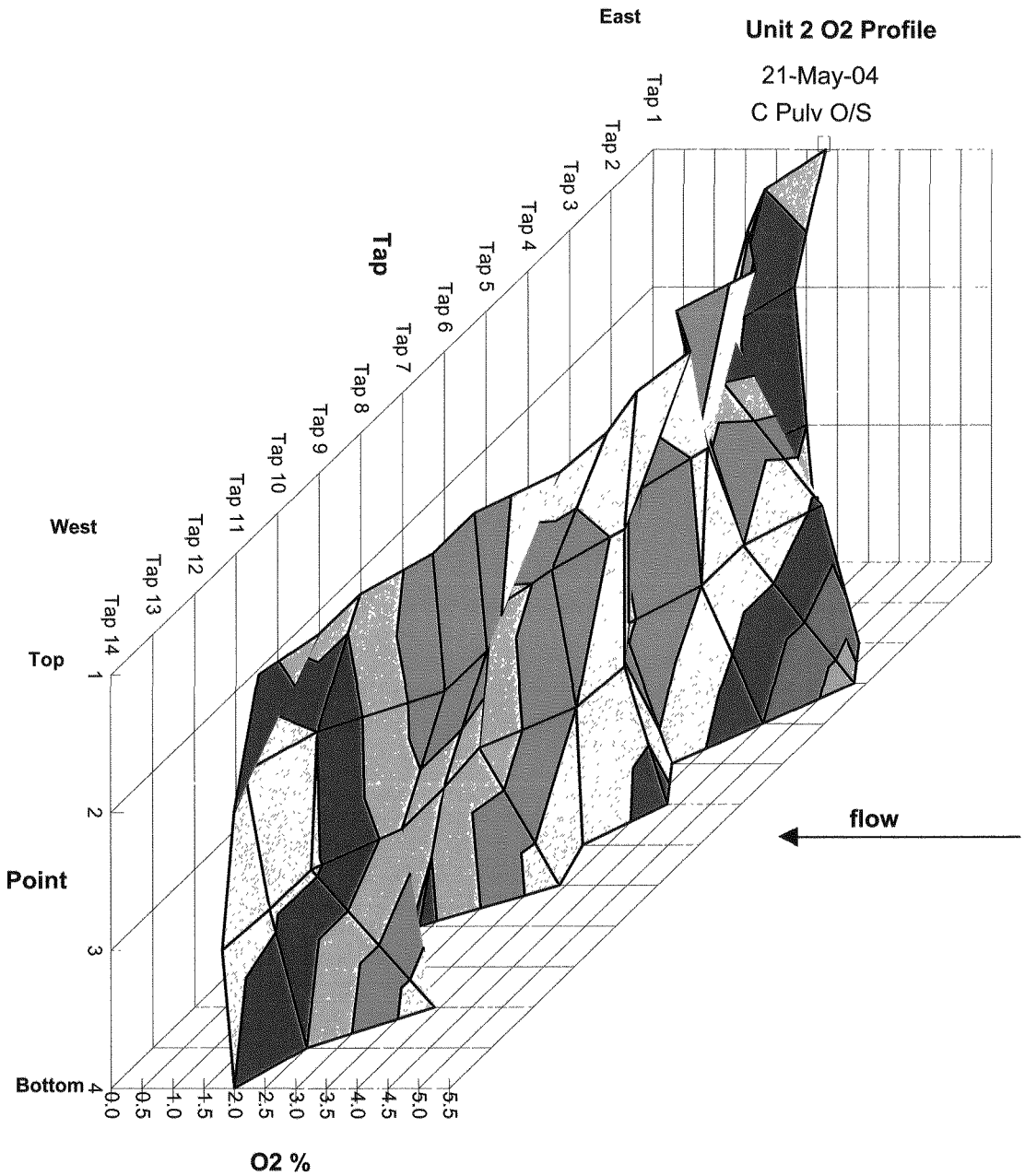
West % O2 West Duct East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
2.4	2.7	2.7	3.2	3.2	3.9	4.0	3.16
2.0	1.5	2.0	3.4	3.4	2.8	3.1	2.60
1.8	1.9	1.9	2.7	2.7	2.6	3.5	2.44
2.0	2.5	3.9	2.6	2.3	3.9	3.6	2.97
Column Averages							
2.05	2.15	2.63	2.98	2.90	3.30	3.55	

Avg %O2 West = 2.79 Hi %O2 = 4 Lo % O2 = 1.5 O2 Range = 2.5

Whole Duct Information

Avg %O2 = 3.04 Hi %O2 = 5.30 Lo % O2 = 1.50 O2 Range = 3.8


Unit 2 O2 Profile
21-May-04
C Pulv O/S
East
West
Tap
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
Point
Top
1
2
3
Bottom 4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
O2 %
flow

U2 C Pulv o/s 5-21-04

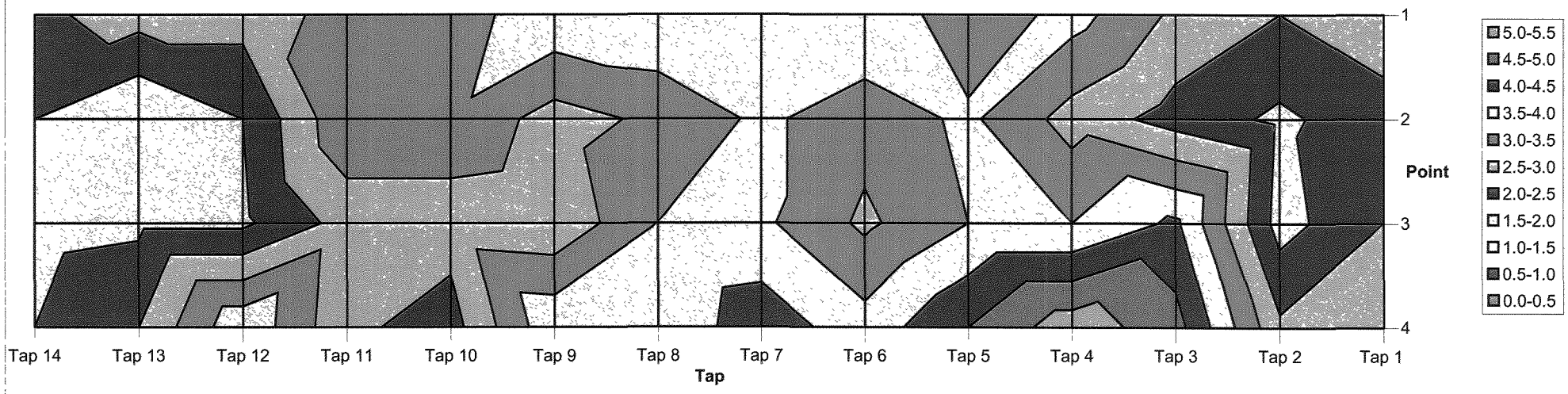
O2 Profile

West

Top

East

O2%



Bottom

IP7_033075

ABT- predicted outer air register settings for air flow balancing

r11 5/21/2004

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

UNIT 2

			Spin Vanes	Inner Air	r7 5/17/04	r8 5/18/04	r11 5/21/2004
Front	Pulv	E1	3.75	1.5	6.5	6.3	6.5
		E2	3.75	1.5	5.4	5.1	5.3
	min	E3	4.25	1.5	5.0	4.6	4.7
	E	E4	4.50	1.5	5.1	4.7	4.8
		E5	3.75	1.5	5.7	5.3	5.4
		E6	3.75	1.5	6.8	6.6	6.6
	Pulv	A1	3.75	1.5	8.7	8.5	8.7
		A2	3.75	1.5	7.3	6.8	7.0
	A	A3	4.25	1.5	6.6	6.1	6.3
		A4	4.50	1.5	6.9	6.3	6.5
		A5	3.75	1.5	7.6	7.0	7.2
		A6	3.75	1.5	9.2	8.9	8.9
	Pulv	F1	3.75	1.5	6.8	6.5	6.8
		F2	3.75	1.5	5.6	5.3	5.4
	F	F3	4.25	1.5	5.1	4.7	4.9
		F4	4.50	1.5	5.3	4.8	5.0
		F5	3.75	1.5	5.9	5.4	5.6
		F6	3.75	1.5	7.1	6.9	6.9
	Pulv	B1	4.00	1.0	10.3	10.0	11.5
		B2	3.75	1.5	8.6	8.0	8.3
	B	B3	3.75	1.5	7.8	7.2	7.5
		B4	4.00	1.5	8.1	7.4	7.6
		B5	3.75	1.5	8.9	8.3	8.5
		B6	4.00	2.0	10.8	10.5	11.5
	ave (front)		8.4		7.1	6.7	7.0

			Spin Vanes	Inner Air	r7 5/17/04	r8 5/18/04	r11 5/21/2004
Rear	Pulv	D1	3.75	1.5	7.3	**7.1**	7.5
		D2	3.75	1.5	6.1	**4.7**	**4.7**
	D	D3	3.75	1.5	5.5	**4.0**	**4.5**
		D4	3.75	1.5	5.7	**4.5**	**4.5**
		D5	3.75	1.5	6.3	**6.3**	6.5
		D6	5.00	1.5	7.6	**10.3**	**10.3**
	Pulv	H1	3.75	1.5	9.4	9.1	9.3
		H2	3.75	1.5	7.8	7.3	7.5
	H	H3	4.00	1.5	7.1	6.6	6.8
		H4	4.00	1.5	7.3	6.7	6.9
		H5	3.75	1.5	8.1	7.5	7.7
		H6	3.75	1.5	9.8	9.5	9.5
	Pulv	C1	3.75	1.5	8.3	8.1	8.3
		C2	3.75	1.5	7.0	6.5	6.7
	C	C3	3.75	1.5	6.3	5.9	6.1
		C4	3.75	1.5	6.5	6.0	6.2
		C5	5.00	1.5	7.2	6.7	6.9
		C6	3.75	1.5	8.8	8.5	8.5
	Pulv	G1	4.00	1.0	12.7	12.3	13.0
		G2	3.75	1.5	10.5	9.9	10.2
	G	G3	3.75	1.5	9.6	8.9	9.2
		G4	3.75	1.5	9.9	9.1	9.4
		G5	3.75	1.5	11.0	10.2	10.4
	max	G6	4.00	1.0	13.3	12.9	13.0
		ave (rear)	9.6		8.3	7.8	8.1
	ave (total)		9.0		7.7	7.3	**7.5**

INPUTS:

	initial	r1	r2	r3	r4	r5	r7
Initial Outer Register Setting Refere (max setting on rear- 1st, row, oute	11.0	10.0	10.0	10.0	9.0	8.0	11.0

S:		r0	r1	r2	r3	r7
Front to Rear BIAS	Front	0.88	0.88	0.85	0.82	0.85
push to rear wall	Rear	1.00	1.00	1.00	1.00	1.00

	outer (1/ 6)	nner (2/ 5	center (3/4)	
Inner to Outer Burner E	1.00	0.96	0.94	r0
w/ baffles	1.00	0.95	0.92	r1
	1.00	0.92	0.88	r2
	1.00	0.90	0.85	r3
	1.00	0.85	0.80	r7
	1.02	0.84	0.78	r8

	6 (west)	5	4	3	2	1 (east)	
Side to Side Bias	1.00	1.00	1.00	1.00	1.00	1.00	r0
push from east to west	1.00	0.95	0.92	0.90	0.92	0.96	r1
	1.00	1.00	1.00	1.00	1.00	1.00	r3
	1.05	1.02	0.98	0.95	0.98	1.00	r7
	1.00	0.98	0.95	0.93	0.96	0.98	r8

		initial	r1	r2	r3	r6
Top to Bottom BIAS	4th- E/ D	0.88	0.86	0.82	0.82	0.82
push to bottom	3rd- A/ H	0.90	0.88	0.85	0.85	0.85
	2nd- F/ C	0.92	0.88	0.85	0.85	0.85
	1st- B/ G	1.00	1.00	1.00	1.00	1.00
Windbox Sizing Bias (r	2nd & 4th	0.95	0.90	0.90	0.85	0.85
	1st& 3rd	1.00	1.00	1.00	1.00	1.00

						r7
Extra Bias based on R	Pulv 2E (f-4th)					1.00
	Pulv 2D (r-4th)				0.95	0.95
	Pulv 2A (f-3rd)				1.05	1.10
	Pulv 2H (r- 3rd)				1.05	1.00
	Pulv 2F (f-2nd)			0.95	0.92	1.00
	Pulv 2C (r-2nd)		0.85	0.80		1.05
	Pulv 2B (f-1st)		1.07	1.07	1.10	1.10
	Pulv 2G (r-1st)			1.05	1.10	1.15

Burner Settings:

Inner Air	1.5" 8 notches s 3 open (1.5")/ 4th hole	
		r2
Spin Vane	3 3/4	
Backwall/ 6th burner	~~3 1/4~~	~~D6, H6, C6 & G6~~

Changes:

r0
r1
r2- bias east to west
r3- take out east to west bias, pinch more
r4- throttling back
r5
r6- Garry- fall back, open everything back open
r7-Bias- reduce WB duct press, increase G & B (lower), re
increase C (although contrary to IBAM info), A & F (based
r8- pushing more air out from center + pushing air east to

Unit 2 Start Time 5/22/2004 10:01 End Time 5/22/2004 11:01

C Pulv o/s

West — PPM CO East Duct — East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
153	109	87	126	181	1006	960	374.57
339	223	150	186	291	1218	829	462.29
1176	1055	109	107	50	580	202	468.43
1218	1218	268	158	68	170	3	443.26
Column Averages							
722	651	154	144	148	744	498	

Avg CO East = 437 Hi ppm CO = 1218 Lo ppm CO = 3 CO Range = 1215

West — PPM CO West Duct — East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
46	85	90	209	211	421	265	189.57
26	83	96	122	158	956	256	242.43
172	174	321	653	119	1022	1228	527.00
144	137	548	1228	1228	859	522	666.57
Column Averages							
97	120	264	553	429	815	568	

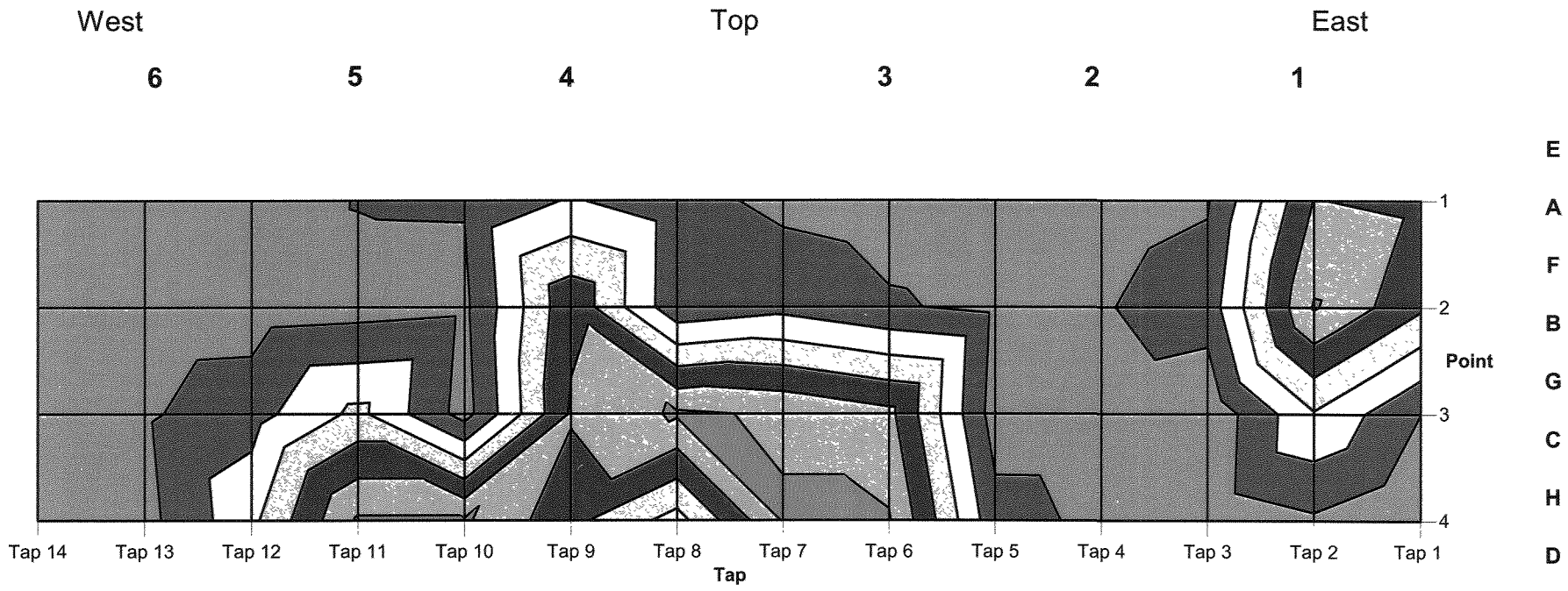
Avg CO West = 406.4 Hi ppm CO = 1228 Lo ppm CO = 26 CO Range = 1202

Whole Duct Information

Avg ppm CO = 422 Hi ppm CO= 1228 Lo ppm CO = 3 CO Range = 1225

U2 C Pulv o/s 5-22-04

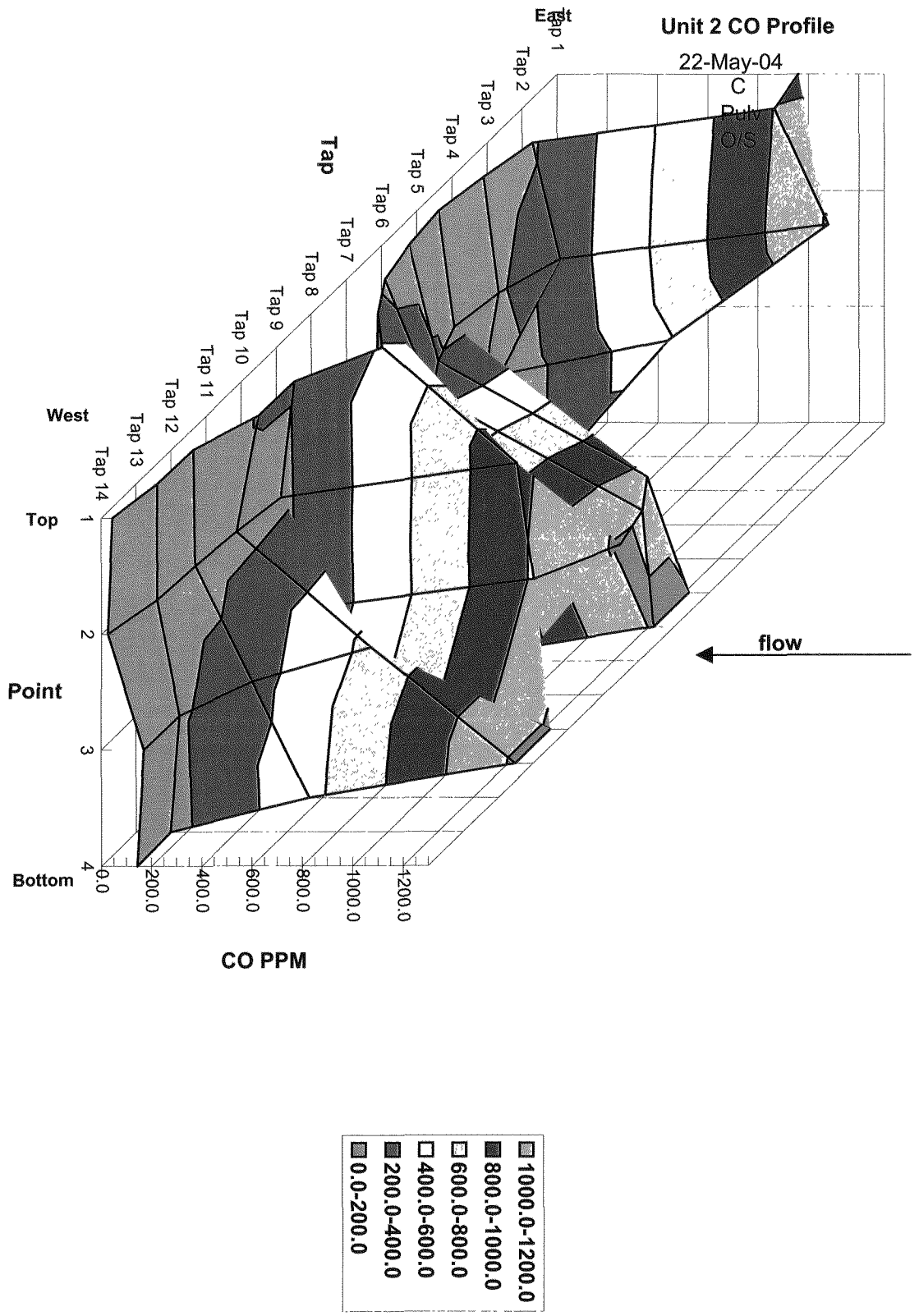
CO Profile



CO ppm

0.0-200.0 | 200.0-400.0 | 400.0-600.0 | 600.0-800.0 | 800.0-1000.0 | 1000.0-1200.0 | 1200.0-1400.0

IP7_033078


Unit 2 CO Profile
22-May-04
C
Pulv
O/S
East
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
West
Tap
Top
1
2
3
4
Bottom
Point
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
CO PPM
flow
1000.0-1200.0
800.0-1000.0
600.0-800.0
400.0-600.0
200.0-400.0
0.0-200.0

U2 C Pulv o/s 5-22-04

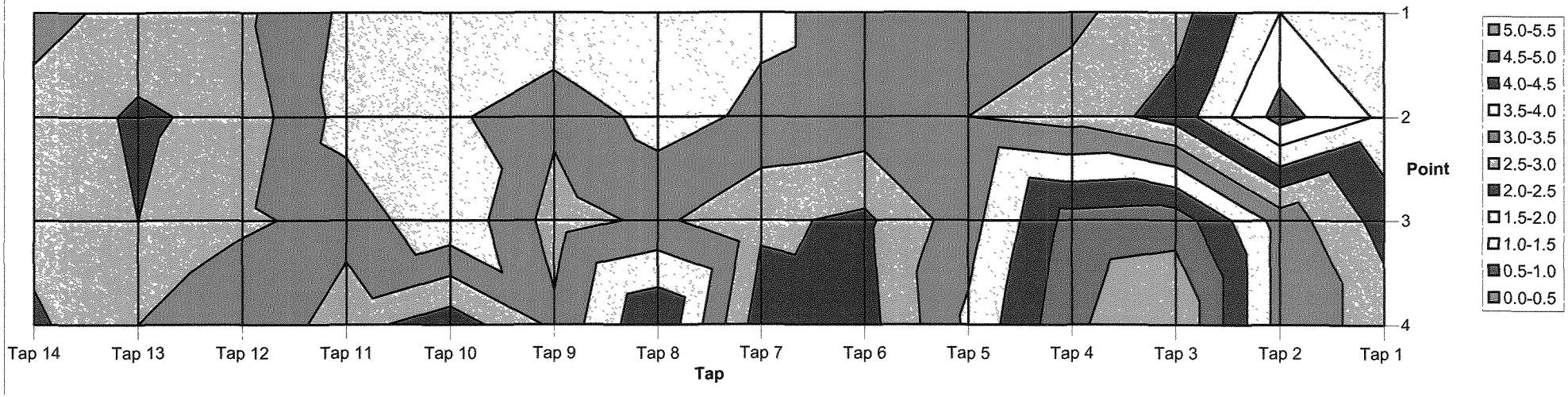
O2 Profile

West

Top

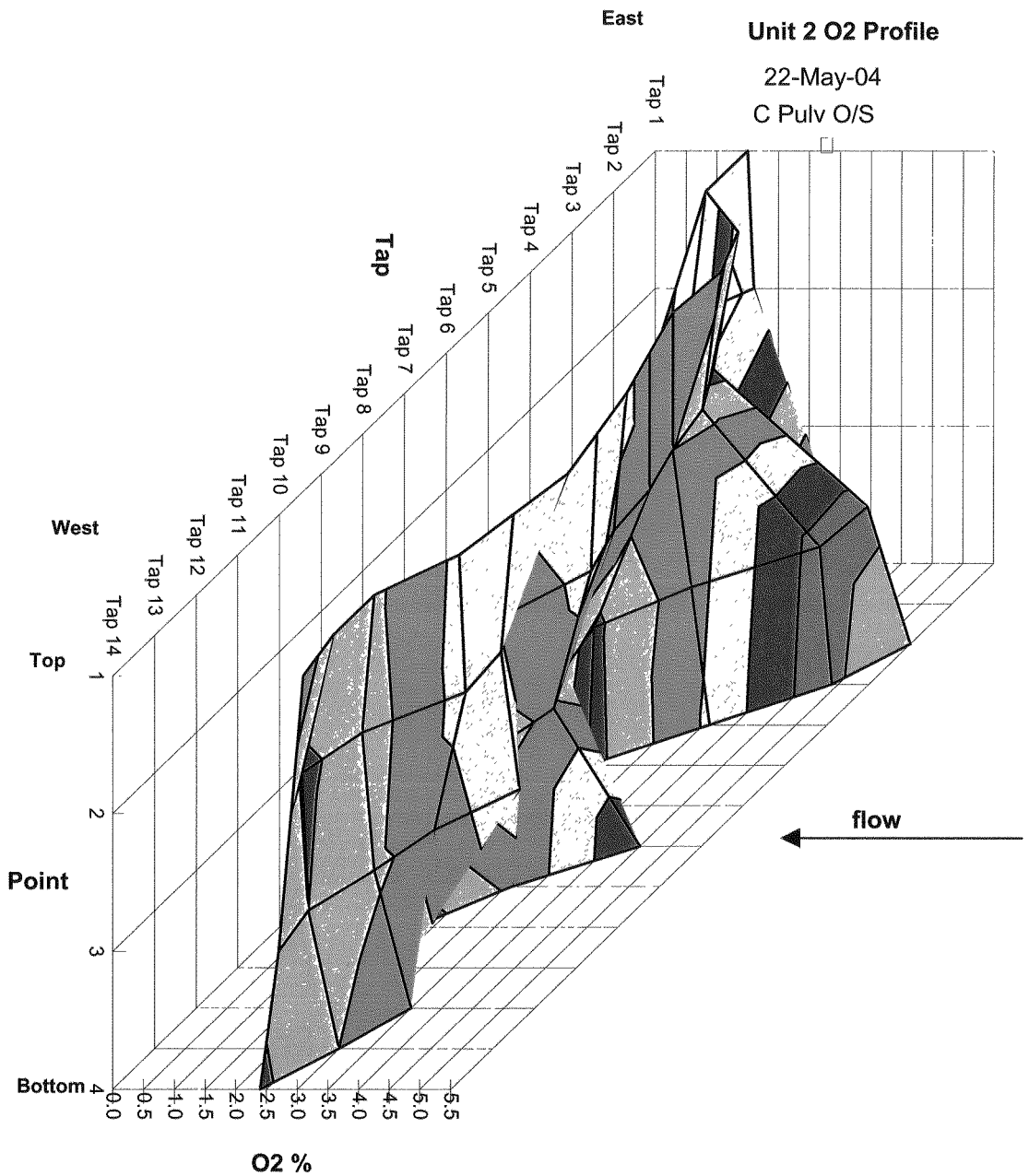
East

O2%



Bottom

IP7_033080


Unit 2 O2 Profile
22-May-04
C Pulv O/S
East
West
Tap
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
Point
Top
Bottom
1
2
3
4
O2 %
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
flow

Unit 2 Start Time 5/22/2004 10:01 End Time 5/22/2004 11:01

C Pulv o/s

West % O2 East Duct East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
3.6	3.3	3.0	3.1	2.7	1.5	1.5	2.67
3.4	3.3	3.0	2.8	2.3	0.8	1.6	2.46
2.6	2.4	3.3	4.7	4.8	3.3	2.3	3.34
2.2	2.3	3.6	4.9	5.6	3.3	2.8	3.53
Column Averages							
2.95	2.83	3.23	3.88	3.85	2.23	2.05	

Avg %O2 East = 3.00 Hi %O2 = 5.60 Lo % O2 = 0.80 O2 Range = 4.80

West % O2 West Duct East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
3.1	2.9	2.9	3.6	3.8	4.0	3.8	3.44
2.9	2.4	2.7	3.7	3.6	3.1	3.7	3.16
2.7	2.5	2.9	3.2	3.9	2.8	3.1	3.01
2.4	3.0	3.5	2.7	2.2	3.1	4.5	3.06
Column Averages							
2.78	2.70	3.00	3.30	3.38	3.25	3.78	

Avg %O2 West = 3.17 Hi %O2 = 4.5 Lo % O2 = 2.2 O2 Range = 2.3

Whole Duct Information

Avg %O2 = 3.08 Hi %O2 = 5.60 Lo % O2 = 0.80 O2 Range = 4.8

Pulv2C o/s (2nd profile - baseline for Stage Testing)

5-22-04

Saturday

Unit 1 Start Time 10:01 End Time 11:01

O_2/CO/mm:ss

West **% O2 East Duct** / CO ppm **East**

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1
3.6/153/55:10	3.3/109/47:50	3.0/87/39:20	3.1/126/31:00	2.7/181/22:00	1.5/1006/14:30	1.5/960/5:50
3.4/339/57:00	3.3/223/49:30	3.0/150/41:50	2.8/146/33:10	2.3/291/24:20	0.8/1218/16:20	1.6/829/8:10
2.6/1176/58:50	2.4/1055/51:10	3.3/109/43:40	4.7/107/35:10	4.8/50/26:20	3.3/580/18:20	2.3/202/10:10
2.2/1218/00:30	2.3/1218/53:10	3.6/268/45:50	4.9/158/37:20	5.6/68/28:10	3.3/170/20:10	2.8/279/12:10
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

O_2/CO/mm:sec

West **% O2 West Duct** / CO ppm **East**

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8
3.1/46/55:40	2.9/85/48:30	2.9/90/40:20	3.6/209/31:30	3.8/211/22:50	4.0/421/14:50	3.8/265/6:00
2.9/26/57:30	2.4/83/50:10	2.7/96/42:30	3.7/122/33:30	3.6/158/25:10	3.1/956/16:50	3.7/256/8:40
2.7/172/59:20	2.5/174/51:50	2.9/32/44:20	3.2/653/35:40	3.9/119/26:40	2.8/1022/18:50	3.1/1228/10:30
2.4/144/01:20	3.0/137/53:40	3.5/548/46:20	2.7/1228/37:50	2.2/1228/29:20	3.1/859/20:40	4.5/522/12:30
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

IP7_033083

r12 5/22/04

ABT- predicted outer air register settings for air flow balancing

r11 5/21/2004

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

UNIT 2

			Spin Vanes	Inner Air	r7 5/17/04	r8 5/18/04	r11 5/21/2004
Front	Pulv	E1	3.75	1.5	6.5	6.3	6.5
		E2	3.75	1.5	5.4	5.1	5.3
	min	E3	4.25	1.5	5.0	4.6	4.7
	E	E4	4.50	1.5	5.1	4.7	4.8
		E5	3.75	1.5	5.7	5.3	5.4
		E6	3.75	1.5	6.8	6.6	6.6
	Pulv	A1	3.75	1.5	8.7	8.5	8.7
		A2	3.75	1.5	7.3	6.8	7.0
	A	A3	4.25	1.5	6.6	6.1	6.3
		A4	4.50	1.5	6.9	6.3	6.5
		A5	3.75	1.5	7.6	7.0	7.2
		A6	3.75	1.5	9.2	8.9	8.9
	Pulv	F1	3.75	1.5	6.8	6.5	6.8
		F2	3.75	1.5	5.6	5.3	5.4
	F	F3	4.25	1.5	5.1	4.7	4.9
		F4	4.50	1.5	5.3	4.8	~~5.0~~ 100
		F5	3.75	1.5	5.9	5.4	5.2 5.6
		F6	3.75	1.5	7.1	6.9	6.9
	Pulv	B1	4.00	1.0	10.3	10.0	11.5
		B2	3.75	1.5	8.6	8.0	8.3
	B	B3	3.75	1.5	7.8	7.2	7.5
		B4	4.00	1.5	8.1	7.4	~~7.8~~ 100
		B5	3.75	1.5	8.9	8.3	7.8 8.5
		B6	4.00	2.0	10.8	10.5	11.5
	ave (front)		8.4		7.1	6.7	7.0

			Spin Vanes	Inner Air	r7 5/17/04	r8 5/18/04	r11 5/21/2004
Rear	Pulv	D1	3.75	1.5	7.3	7.1	7.5
		D2	~~3.75~~ 3.5	1.5	6.1	4.7	4.7
	D	D3	~~3.75~~ 3.5	1.5	5.5	4.0	4.5
		D4	3.75	1.5	5.7	4.5	4.5 100
		D5	3.75	1.5	6.3	6.3	4.8 6.5
		D6	5.00	1.5	7.6	10.3	10.3
	Pulv	H1	3.75	1.5	9.4	9.1	10 ~~9.3~~ 10
		H2	3.75	1.5	7.8	7.3	7.5
	H	H3	4.00	1.5	7.1	6.6	6.8
		H4	4.00	1.5	7.3	6.7	6.9
		H5	3.75	1.5	8.1	7.5	7.7
		H6	3.75	1.5	9.8	9.5	9.5
	Pulv	C1	3.75	1.5	8.3	8.1	8.3
		C2	3.75	1.5	7.0	6.5	6.7
	C	C3	3.75	1.5	6.3	5.9	6.1
		C4	3.75	1.5	6.5	6.0	6.2
		C5	5.00	1.5	7.2	6.7	6.9
		C6	3.75	1.5	8.8	8.5	8.5
	Pulv	G1	4.00	1.0	12.7	12.3	- 13.0
		G2	3.75	1.5	10.5	9.9	10.2
	G	G3	3.75	1.5	9.6	8.9	9.2
		G4	3.75	1.5	9.9	9.1	9.4
		G5	3.75	1.5	11.0	10.2	10.4
	max	G6	4.00	1.0	13.3	12.9	13.0
		ave (rear)	9.6		8.3	7.8	8.1
	ave (total)		9.0		7.7	7.3	7.5

INPUTS:

	initial	r1	r2	r3	r4	r5	r7
Initial Outer Register Setting Refere (max setting on rear- 1st, row, oute	11.0	10.0	10.0	10.0	9.0	8.0	11.0

S:		r0	r1	r2	r3	r7
Front to Rear BIAS	Front	0.88	0.88	0.85	0.82	0.85
push to rear wall	Rear	1.00	1.00	1.00	1.00	1.00

	outer (1/ 6)	nner (2/ 5	center (3/4)		
Inner to Outer Burner E	1.00	0.96	0.94	r0	
w/ baffles	1.00	0.95	0.92	r1	
	1.00	0.92	0.88	r2	
	1.00	0.90	0.85	r3	
	1.00	0.85	0.80	r7	
	1.02	0.84	0.78	r8	

	6 (west)	5	4	3	2	1 (east)	
Side to Side Bias	1.00	1.00	1.00	1.00	1.00	1.00	r0
push from east to west	1.00	0.95	0.92	0.90	0.92	0.96	r1
	1.00	1.00	1.00	1.00	1.00	1.00	r3
	1.05	1.02	0.98	0.95	0.98	1.00	r7
	1.00	0.98	0.95	0.93	0.96	0.98	r8

		initial	r1	r2	r3	r6
Top to Bottom BIAS	4th- E/ D	0.88	0.86	0.82	0.82	0.82
push to bottom	3rd- A/ H	0.90	0.88	0.85	0.85	0.85
	2nd- F/ C	0.92	0.88	0.85	0.85	0.85
	1st- B/ G	1.00	1.00	1.00	1.00	1.00
Windbox Sizing Bias (r	2nd & 4th	0.95	0.90	0.90	0.85	0.85
	1st& 3rd	1.00	1.00	1.00	1.00	1.00

						r7
Extra Bias based on R	Pulv 2E (f-4th)					1.00
	Pulv 2D (r-4th)				0.95	0.95
	Pulv 2A (f-3rd)				1.05	1.10
	Pulv 2H (r- 3rd)				1.05	1.00
	Pulv 2F (f-2nd)			0.95	0.92	1.00
	Pulv 2C (r-2nd)		0.85	0.80		1.05
	Pulv 2B (f-1st)		1.07	1.07	1.10	1.10
	Pulv 2G (r-1st)			1.05	1.10	1.15

Burner Settings:

Inner Air	1.5" 8 notches 3 open (1.5")/ 4th hole
	r2
Spin Vane	3 3/4
Backwall/ 6th burner	~~3 1/4~~ ~~D6, H6, C6 & G6~~

Changes:

r0
r1
r2- bias east to west
r3- take out east to west bias, pinch more
r4- throttling back
r5
r6- Garry- fall back, open everything back open
r7-Bias- reduce WB duct press, increase G & B (lower), re
increase C (although contrary to IBAM info), A & F (based
r8- pushing more air out from center + pushing air east to

R4
B4 +.2
L1 +3

IP7_033084

Sat

5-22-04

A Pulv o/s

12:45	East O2	3.21	CO	182	West O2	3.42	CO	38
12:50	East O2	3.04	CO	365	West O2	3.66	CO	31
12:55	East O2	3.18	CO	204	West O2	3.61	CO	31
13:00	East O2	3.44	CO	94	West O2	3.11	CO	66
13:05	East O2	3.26	CO	78	West O2	3.40	CO	27
13:10	East O2	3.04	CO	159	West O2	3.29	CO	104
13:15	Tap 3-4 O2	4.97	CO	138	West O2	3.36	CO	81
13:20	Tap 3-4 O2	4.84	CO	60	West O2	3.48	CO	27
13:25	Tap 3-4 O2	4.90	CO	26	West O2	3.20	CO	102

Tap 3-4
Tap 4-4

move spin D2 + D3 3.5" to 3"

13:30	Tap 3-4 O2	4.15	CO	272	West O2	3.36	CO	27
13:35	Tap 3-4 O2	4.39	CO	128	West O2	3.52	CO	18

move spin D2 + D3 3" to 2.5"

13:40	Tap 3-4 O2	4.23	CO	156	West O2	3.56	CO	44
13:45	Tap 3-4 O2	3.87	CO	221	West O2	3.80	CO	20

move spin H2 + H3 3 3/4 to 2.5"

13:50	Tap 3-4 O2	3.06	CO	1228	West O2	3.69	CO	116
13:55	Tap 3-4 O2	3.24	CO	1228	West O2	3.59	CO	70

H2 + H3 to 3" D2 + D3 to 3.5

14:05	Tap 3-4 O2	4.94	CO	25	West O2	3.47	CO	50
CO↓ O2↑ 14:10	Tap 3-4 O2	5.03	CO	50	West O2	3.56	CO	31

Closing hood on H2 7.4" to 6.5"

O2↑ 14:20	Tap 3-4 O2	5.57	CO	32	West O2	3.24	CO	55

putting H2 back 7.4" H3 6.6 to 6"

O2↓ 14:25	Tap 3-4 O2	5.02	CO	48	West O2	3.46	CO	34

tap H3 OR 6" to 5"

14:30	Tap 3-4 O2	5.32	CO	14	West O2	3.49	CO	31
14:35	Tap 3-4 O2	5.03	CO	30	West O2	3.23	CO	139

H3 spin to 2.5"

14:40	Tap 3-4 O2	4.74	CO	63	West O2	3.43	CO	96

H3 to 3" H2 to 2.5"

14:50	Tap 3-4 O2	4.60	CO	87	West O2	3.65	CO	33

C3 + C2 spin 3 3/4 to 3" H2 back 3" H3 hood 6.6"

15:00	Tap 3-4 O2	4.88	CO	47	West O2	3.68	CO	25
15:05	Tap 3-4 O2	4.61	CO	22	West O2	3.87	CO	37

put back 3 3/4" on C2 + C3, trying D1 3 3/4 to 3"

15:15	Tap 3-4 O2	5.00	CO	47	West O2	3.74	CO	27

everything back to start

TOPS 35500

IP7_033085

Unit 2 Start Time 5/22/2004 15:35 End Time 5/22/2004 16:23

A Pulv o/s

West — PPM CO East Duct — East

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
72	20	8	20	264	416	194	142.00
180	38	21	63	82	188	403	139.29
149	105	16	53	85	203	389	142.86
171	119	44	22	33	281	272	134.57
Column Averages							
143	71	22	40	116	272	315	

Avg CO East = 140 Hi ppm CO = 416 Lo ppm CO = 8 CO Range = 408

West — PPM CO West Duct — East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
7	9	17	180	41	146	32	61.71
20	2	21	56	20	100	211	61.43
7	19	10	202	59	544	331	167.43
34	46	188	214	275	418	157	190.29
Column Averages							
17	19	59	163	99	302	183	

Avg CO West = 120.2 Hi ppm CO = 544 Lo ppm CO = 2 CO Range = 542

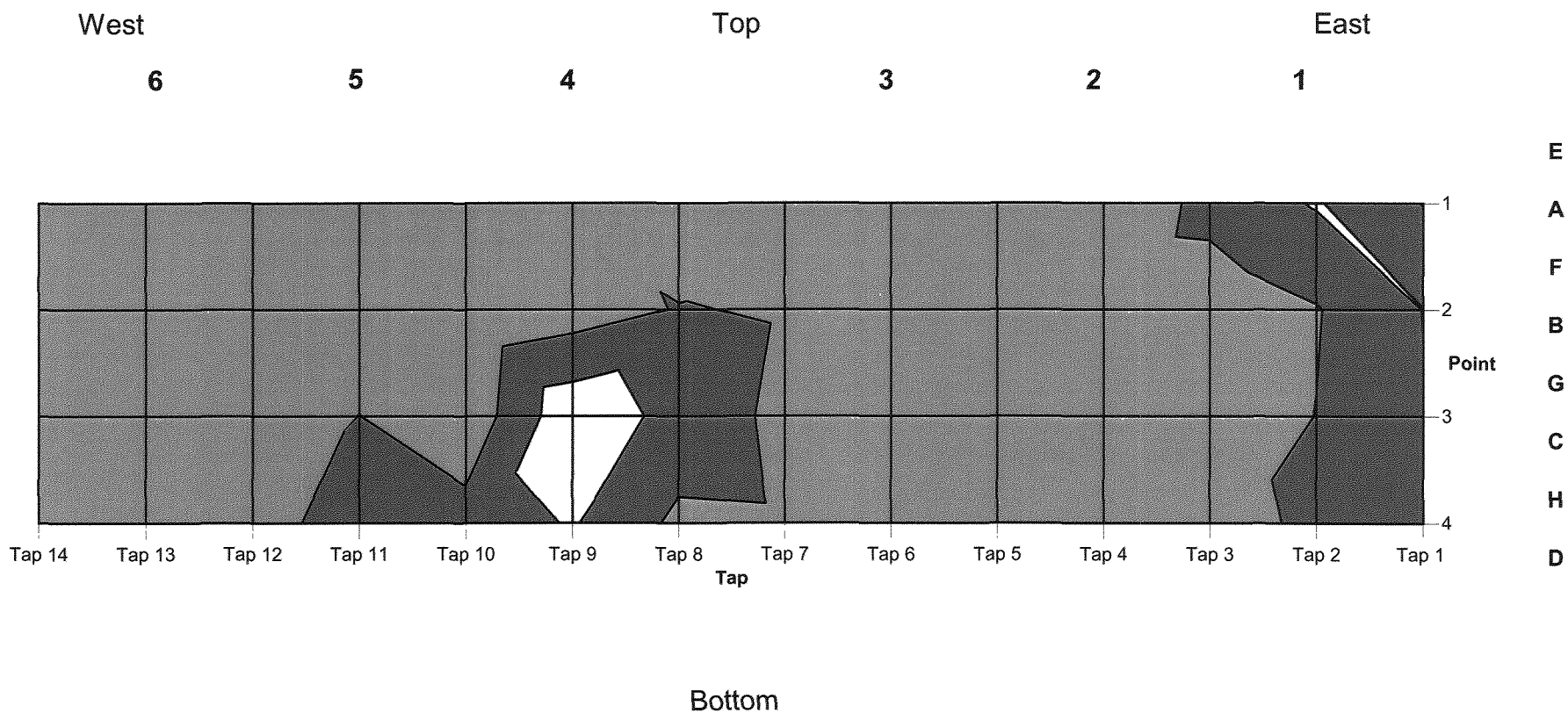
Whole Duct Information

Avg ppm CO = 130 Hi ppm CO= 544 Lo ppm CO = 2 CO Range = 542

Unit 2 CO Profile
22-May-04
A
Pulv
O/S
East
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
West
Tap
Top
Point
Bottom
1
2
3
4
0.0
200.0
400.0
600.0
800.0
1000.0
1200.0
CO PPM
flow
1000.0-1200.0
800.0-1000.0
600.0-800.0
400.0-600.0
200.0-400.0
0.0-200.0

U2 A Pulv o/s 5-22-04

CO Profile



CO ppm

0.0-200.0 | 200.0-400.0 | 400.0-600.0 | 600.0-800.0 | 800.0-1000.0 | 1000.0-1200.0 | 1200.0-1400.0

IP7_033088

Unit 2 Start Time 5/22/2004 15:35 End Time 5/22/2004 16:23

A Pulv o/s

West **% O2 East Duct** **East** Avg

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1	Avg
3.8	3.8	3.7	4.1	2.2	2.1	2.3	3.14
3.1	3.5	3.2	3.4	3.0	2.1	1.6	2.84
3.4	3.3	4.2	4.6	4.5	3.2	2.1	3.61
4.1	3.7	4.2	5.3	5.7	2.6	2.4	4.00
Column Averages							
3.60	3.58	3.83	4.35	3.85	2.50	2.10	

Avg %O2 East = 3.40 Hi %O2 = 5.70 Lo % O2 = 1.60 O2 Range = 4.10

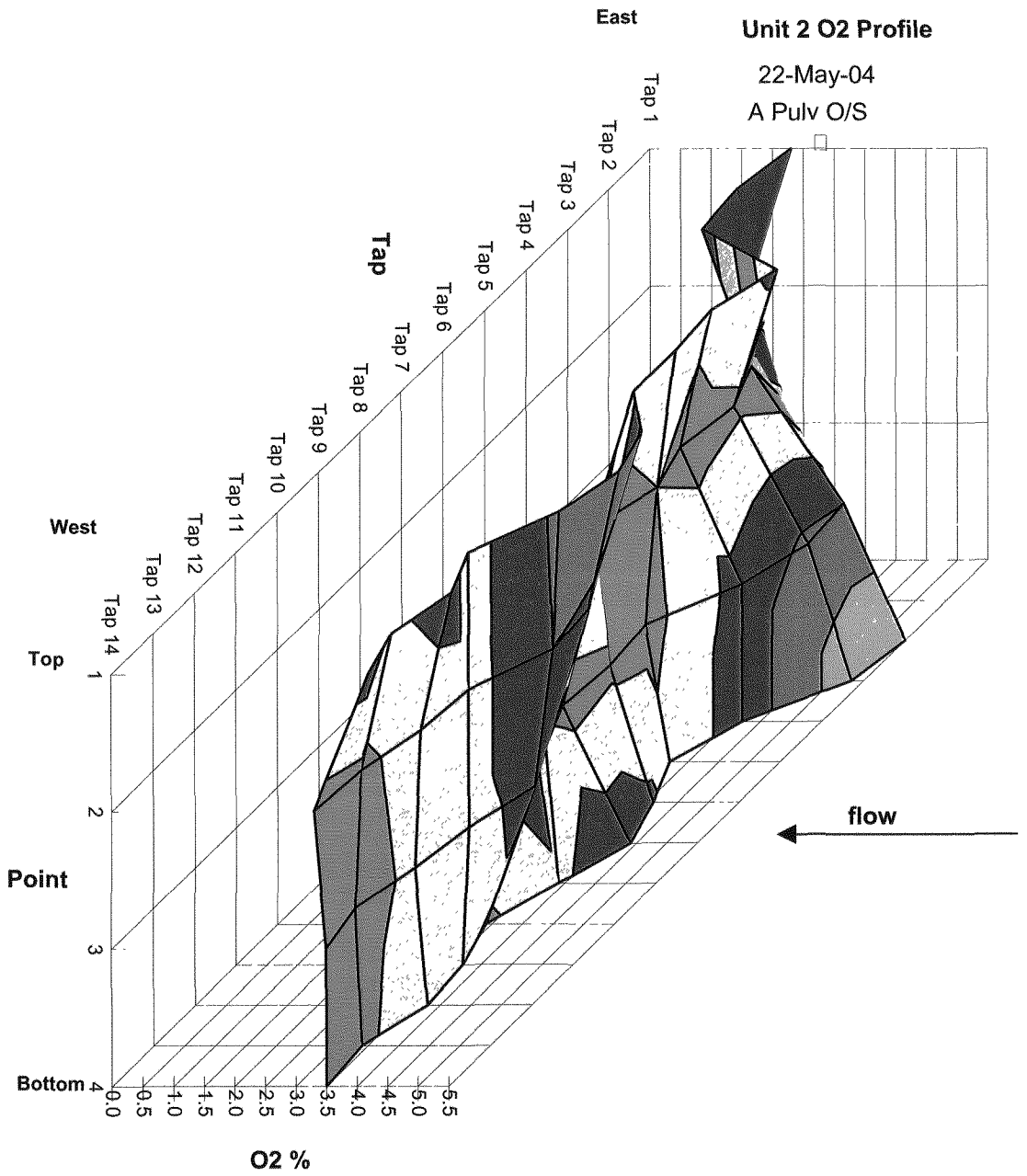
West **% O2 West Duct** **East** Avg

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8	Avg
4.2	3.9	4.2	3.8	4.6	4.9	4.6	4.31
3.3	3.4	3.7	3.8	4.5	4.4	3.9	3.86
3.5	3.3	3.6	3.8	4.2	3.7	3.3	3.63
3.5	3.4	3.8	3.7	3.4	3.9	4.4	3.73
Column Averages							
3.63	3.50	3.83	3.78	4.18	4.23	4.05	

Avg %O2 West = 3.88 Hi %O2 = 4.9 Lo % O2 = 3.3 O2 Range = 1.6

Whole Duct Information

Avg %O2 = 3.64 Hi %O2 = 5.70 Lo % O2 = 1.60 O2 Range = 4.1


Unit 2 O2 Profile
22-May-04
A Pulv O/S
East
West
Tap
Tap 1
Tap 2
Tap 3
Tap 4
Tap 5
Tap 6
Tap 7
Tap 8
Tap 9
Tap 10
Tap 11
Tap 12
Tap 13
Tap 14
Point
Top
1
2
3
Bottom 4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
5.5
O2 %
flow

U2 A Pulv o/s 5-22-04

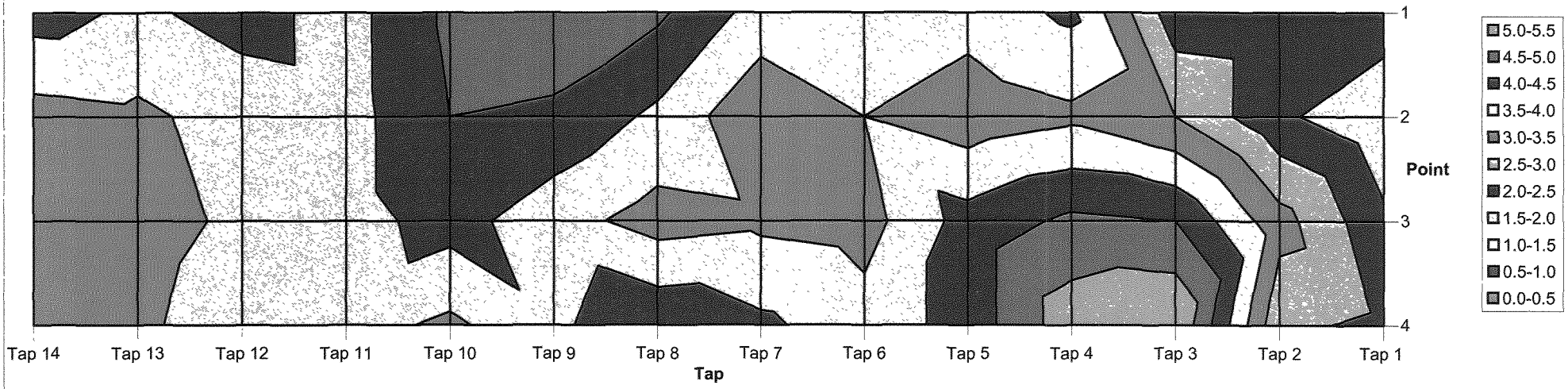
O2 Profile

West

Top

East

O2%



Bottom

IP7_033091

ABT- predicted outer air register settings for air flow balancing

r12 5/22/2004

NOTE: U2 Spring Outage, 3/2004 ABT burners replaced and BPI overfire air added plus installed windbox baffles

UNIT 2

			Spin Vanes	Inner Air	r8 5/18/04	r11 5/21/2004	r12 5/22/2004
Front	Pulv	E1	3.75	1.5	6.3	6.5	**6.5**
		E2	3 75	1.5	5.1	5.3	**5.1**
	min	E3	4.25	1.5	4.6	4.7	**4.6**
	E	E4	4.50	1.5	4.7	4.8	**4.7**
		E5	3.75	1.5	5.3	5.4	**5.4**
		E6	3.75	1.5	6.6	6.6	**6.6**
	Pulv	A1	3.75	1.5	8.5	8.7	**8.6**
		A2	3.75	1.5	6.8	7.0	**6.8**
	A	A3	4 25	1.5	6.1	6.3	**6.1**
		A4	4 25	1.5	6.3	6.5	**6.3**
		A5	3.75	1.5	7.0	7.2	**7.1**
		A6	3.75	1.5	8.9	8.9	**8.8**
	Pulv	F1	3.75	1.5	6.5	6.8	**6.8**
		F2	3.75	1.5	5.3	5.4	**5.4**
	F	F3	4 25	1.5	4.7	4.9	**4.8**
		F4	4 25	1.5	4.8	5.0	**5.2**
		F5	3.75	1.5	5.4	5.6	**5.6**
		F6	3.75	1.5	6.9	6.9	**7.0**
	Pulv	B1	~~3.75~~ 4	~~1.5~~ .5	10.0	10.3	~~10.2~~ 14
		B2	3.75	1.5	8.0	8.3	**8.0**
	B	B3	3.75	1 5	7.2	7.5	**7.1**
		B4	3.75	1.5	7.4	7.6	**7.6**
		B5	3.75	1.5	8.3	8.5	**8.4**
		B6	~~3.75~~ 4	~~1.5~~ .5	10.5	10.5	~~10.4~~ 14
ave (front)							6.8

			Spin Vanes	Inner Air	r8 5/18/04	r11 5/21/04	r12 5/22/2004
Rear	Pulv	D1	3.75	1.5	7.1	**8.0**	8.0
		D2	3.50	1.5	4.7	**4.7**	**4.7**
	D	D3	3.50	1.5	4.0	**4.5**	4.5
		D4	3.75	1.5	4.5	**4.5**	**4.8**
		D5	3.75	1.5	6.3	**7.0**	7.0
		D6	5.00	1.5	10.3	**10.3**	**10.3**
	Pulv	H1	3.75	1.5	9.1	9.3	9.7
		H2	3.75	1.5	7.3	7.5	**7.4**
	H	H3	3.75	1.5	6.6	6.8	**6.6**
		H4	3.75	1.5	6.7	6.9	**6.8**
		H5	3.75	1.5	7.5	7.7	**7.7**
		H6	3.75	1.5	9.5	9.5	**9.5**
	Pulv	C1	3.75	1.5	8.1	8.3	**8.5**
		C2	3.75	1.5	6.5	6.7	**6.7**
	C	C3	3.75	1.5	5.9	6.1	**6.0**
		C4	3.75	1.5	6.0	6.2	**6.2**
		C5	5.00	1.5	6.7	6.9	**7.0**
		C6	3.75	1.5	8.5	8.5	**8.7**
	Pulv	G1	~~3.75~~ 4	~~1.5~~ 1.0	12.3	12.6	**12.6**
		G2	3.75	1.5	9.9	10.2	**10.0**
	G	G3	3.75	1.5	8.9	9.2	**8.9**
		G4	3.75	1.5	9.1	9.4	**9.2**
		G5	3.75	1.5	10.2	10.4	**10.4**
	max	G6	~~3.75~~ 4	~~1.5~~ 1.0	12.9	12.9	**12.9**
		ave (rear)			7.8	8.1	8.1
		ave (total)			7.3	8.1	**7.4**

INPUTS:

Initial Outer Register Setting Refere		initial	r1	r2	r3	r4	r5	r7
(max setting on rear- 1st, row, outer		11.0	10.0	10.0	10.0	9.0	8.0	11.0

S:		r0	r1	r2	r3	r7
Front to Rear BIAS	Front	0.88	0.88	0.85	0.82	0.84
push to rear wall	Rear	1.00	1.00	1.00	1.00	1 00

	outer (1/ 6)	nner (2/ 5	center (3/4)	
Inner to Outer Burner E	1.00	0.96	0.94	r0
w/ baffles	1.00	0.95	0.92	r1
	1.00	0.92	0.88	r2
	1.00	0.90	0.85	r3
	1.00	0.85	0.80	r7
	1.02	0.84	0.78	r8

	6 (west)	5	4	3	2	1 (east)	
Side to Side Bias	1.00	1.00	1.00	1.00	1.00	1.00	r0
push from east to west	1.00	0.95	0.92	0.90	0.92	0.96	r1
	1.00	1.00	1.00	1.00	1.00	1.00	r3
	1.05	1.02	0.98	0.95	0.98	1.00	r7
	1.00	0.98	0.93	0.90	0.94	0.98	r8

		initial	r1	r2	r3	r6
Top to Bottom BIAS	4th- E/ D	0.88	0.86	0.82	0.82	0.82
push to bottom	3rd- A/ H	0.90	0.88	0.85	0.85	0 85
	2nd- F/ C	0.92	0.88	0.85	0.85	0.86
	1st- B/ G	1.00	1.00	1.00	1.00	1 00
Windbox Sizing Bias (r	2nd & 4th	0.95	0.90	0.90	0.85	0 86
	1st& 3rd	1.00	1.00	1.00	1.00	1 00

						r7
Extra Bias based on R	Pulv 2E (f-4th)					1 00
	Pulv 2D (r-4th)				0.95	**0.95**
	Pulv 2A (f-3rd)				1.05	**1.10**
	Pulv 2H (r- 3rd)				1.05	**1.00**
	Pulv 2F (f-2nd)			0.95	0.92	**1.00**
	Pulv 2C (r-2nd)		0.85	0.80		**1.05**
	Pulv 2B (f-1st)		1.07	1.07	1.10	1 10
	Pulv 2G (r-1st)			1.05	1.10	**1.15**

Burner Settings:

Inner Air	1.5" 8 notches s 3 open (1.5")/ 4th hole	
		r2
Spin Vane	3 3/4	
Backwall/ 6th burner	~~3 1/4~~	~~D6, H6, C6 & G6~~

Changes:

r0
r1
r2- bias east to west
r3- take out east to west bias, pinch more
r4- throttling back
r5
r6- Garry- fall back, open everything back open
r7-Bias- reduce WB duct press, increase G & B (lower), re
increase C (although contrary to IBAM info), A & F (based
r8- pushing more air out from center + pushing air east to

IP7_033092

A pulv o/s 5-22-04

2

Unit 1 Start Time 15:35 End Time 16:23

O_2/CO/mm:sec

West **% O2 East Duct/CO** **East**

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1
3.8/72/18:20	3.8/20/11:40	3.7/8/4:40	4.1/20/58:00	2.2/264/51:40	2.1/416/44:50	2.3/194/37:30
3.1/180/19:50	3.5/38/13:20	3.2/21/6:30	3.4/63/59:40	3.0/82/53:20	2.1/188/46:40	1.6/403/39:20
3.4/149/21:30	3.3/105/14:50	4.2/16/8:00	4.6/53/1:30	4.5/85/54:50	3.2/203/48:20	2.1/389/41:10
4.1/17/23:10	3.7/119/16:40	4.2/44/9:50	5.3/22/3:00	5.7/33/56:20	2.6/281/50:00	2.4/272/43:00
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

O_2/CO/mm:sec

West **% O2 West Duct** **East**

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8
4.2/7/18:40	3.9/9/12:10	4.2/17/5:10	3.8/180/58:20	4.6/41/52:10	4.9/146/45:10	4.6/32/38:00
3.3/20/20:20	3.4/2/13:50	3.7/21/7:00	3.8/56/0020	4.5/20/53:50	4.4/100/47:00	3.9/211/39:40
3.5/7/22:10	3.3/19/15:20	3.6/10/8:30	3.8/202/1:50	4.2/59/55:20	3.7/544/48:40	3.3/331/41:50
3.5/34/23:40	3.4/46/17:20	3.8/188/10:10	3.7/214/3:30	3.4/275/56:50	3.9/418/50:30	4.4/157/43:20
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

Sun 5/23/04

Pulv 2H O/S

Dave & Aaron

(No burner adjustments - this morning)

Unit 1 2 Start Time 900 am End Time 955

% O2 East Duct

West						East
STOP Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Start 905 Tap 1
3.7 / 333 4440	3.4 / 172 4350	3.5 / 100 3810	3.5 / 71 3050	3.2 / 27 2440	3.3 / 35 1720	3.5 / 29 810
2.8 / 360 5140	2.9 / 140 4520	3.2 / 15 3950	3.7 / 7 3210	3.3 / 7 2600	2.6 / 8 1936	3.1 / 35 1030
2.0 / 1218 5300	1.8 / 1218 4700	3.8 / 130 4730	3.6 / 95 3410	4.4 / 31 2720	3.0 / 32 2140	3.5 / 67 1250
0.7 / 1218 5430	1.0 / 1218 4220	2.5 / 1218 4230	2.8 / 1218 3540	3.9 / 1070 2910	3.5 / 145 2810	3.7 / 180 1520
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

% O2 West Duct

West						East
Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8
3.5 / 43 5010	3.8 / 32 4410	3.6 / 19 3900	4.2 / 21 3110	4.4 / 46 2450	4.7 / 38 1800	3.9 / 96 820
3.6 / 19 5300	3.3 / 7 4540	4.4 / 7 4005	4.3 / 6 3230	4.5 / 8 2620	4.2 / 84 1940	4.4 / 69 1120
3.6 / 95 5320	3.6 / 27 4720	3.6 / 5 4200	4.8 / 36 3440	4.1 / 205 2740	2.7 / 1227 2200	2.0 / 1228 1320
4.5 / 94 5450	4.6 / 112 4840	5.4 / 206 4300	3.5 / 285 3620	2.8 / 475 2430	2.1 / 1227 2320	1.3 / 1228 1540
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

PROBLEM ↑CO bottom's grid

IP7_033094

5-23-04 H o/s Test 2

2

Unit 1 Start Time 13:00:00 End Time 14:06

% O2 East Duct

West — East 13:002.0

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1
3.4/124/37:40	1.3/1217/31:30	2.8/332/25:20	2.7/394/19:30	2.8/99/12:50	3.3/50/06:30	3.4/58/00:20
3.2/1092/39:20	1.1/1217+/33:00	2.7/218/26:50	2.6/36/21:00	3.1/4.7/14:30	1.9/180/08:10	3.2/29/02:00
2.7/1210/41:00	1.2/1217+/34:20	3.3/534/28:20	4.1/73/22:30	3.9/20/16:20	3.1/41/09:40	3.2/84/03:30
3.2/1217+/42:30	2.8/456/36:00	4.1/326/29:40	5.1/46/23:50	4.7/66/17:40	3.3/123/11:20	3.6/142/05:00
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

% O2 West Duct

West — East

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8
5.0/14/38:00	3.9/61/32:00	4.7/15/26:10	4.1/117/20:00	4.0/124/13:30	3.9/148/07:20	3.6/221/01:00
5.5/11/39:40	4.4/14/32:20	4.5/6/27:30	4.4/16/21:30	3.4/23/15:00	2.9/205/08:50	3.9/200/02:40
5.6/56/41:20	5.0/13/34:50	4.9/4/28:50	5.4/27/22:50	3.0/451/16:50	2.1/1228/10:40	3.2/1153/04:00
5.4/120/42:40	5.2/40/36:30	5.9/21/30:20	5.7/38/24:10	4.1/368/18:20	3.6/1068/11:50	2.7/1228+/05:30
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

IP7_033095

H O/S

5-23-04 afternoon PulvDH O/s (3rd profile)
(after 2nd set Burner moves)

Unit ~~1~~ 2 Start Time 17:42:00 End Time 18:26:50

O_2 / CO / mm:sec

West **% O2 East Duct** **East**

Tap 7	Tap 6	Tap 5	Tap 4	Tap 3	Tap 2	Tap 1
3.0/476/21:30	3.7/123/15:10	3.1/53/8:20	3.3/158/2:30	3.2/26/56:10	2.7/194/49:40	2.6/71/44:00
2.5/1217/23:40	2.5/598/16:40	3.4/21/10:00	3.6/9/3:50	2.6/21/57:30	2.6/58/51:00	2.3/112/45:30
2.7/1217+/25:00	1.7/1217/18:30	4.0/65/11:30	4.0/18/5:20	3.6/35/59:10	2.5/222/52:50	2.6/142/46:50
3.7/1125/	3.1/1061/20:10	4.4/158/13:30	4.7/65/6:50	4.8/108/00:50	2.8/62/54:30	2.9/261/48:10
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Avg %O2 East = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

O_2 / CO / mm:sec

West **% O2 West Duct** **East**

Tap 14	Tap 13	Tap 12	Tap 11	Tap 10	Tap 9	Tap 8
5.0/9/22:00	4.8/19/15:40	5.4/15/9:00	4.0/112/2:50	4.6/97/56:30	3.6/305/50:00	4.2/90/44:10
4.8/87/23:50	4.9/3/17:10	4.5/3/10:30	4.3/15/04:10	3.8/27/58:10	3.2/470/51:40	4.4/216/45:50
5.0/15/25:20	4.4/15/18:50	5.3/2/12:00	4.7/13/05:40	3.3/233/59:50	2.6/1000/53:30	2.7/1228/47:20
5.0/40/26:50	5.0/19/20:30	6.0/20/13:50	4.8/44/7:10	3.9/252/01:10	3.2/787/55:00	3.0/1224/48:30
Column Averages						
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

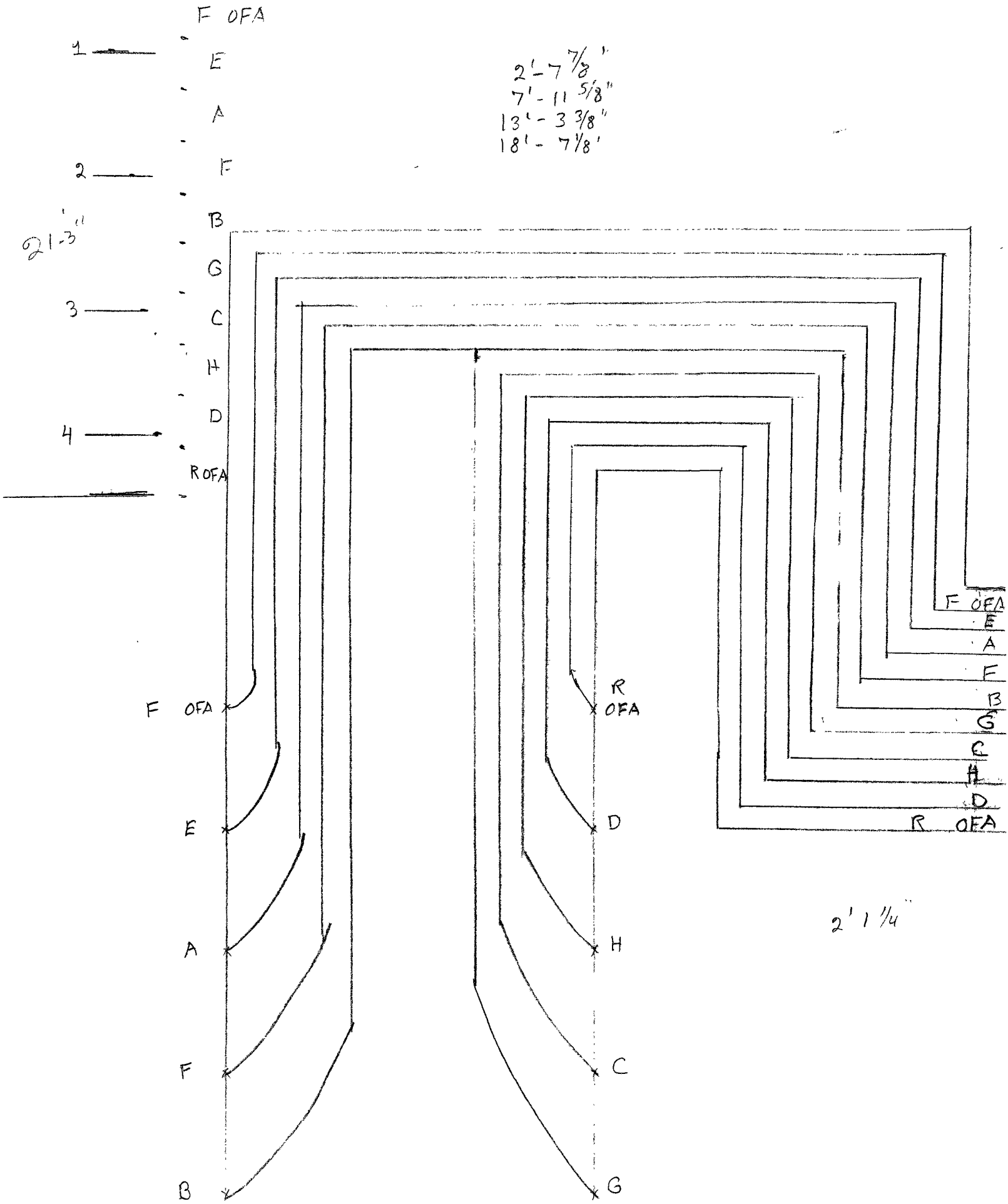
Avg %O2 West = #DIV/0! Hi %O2 = 0 Lo % O2 = 0 O2 Range = 0

Whole Duct Information

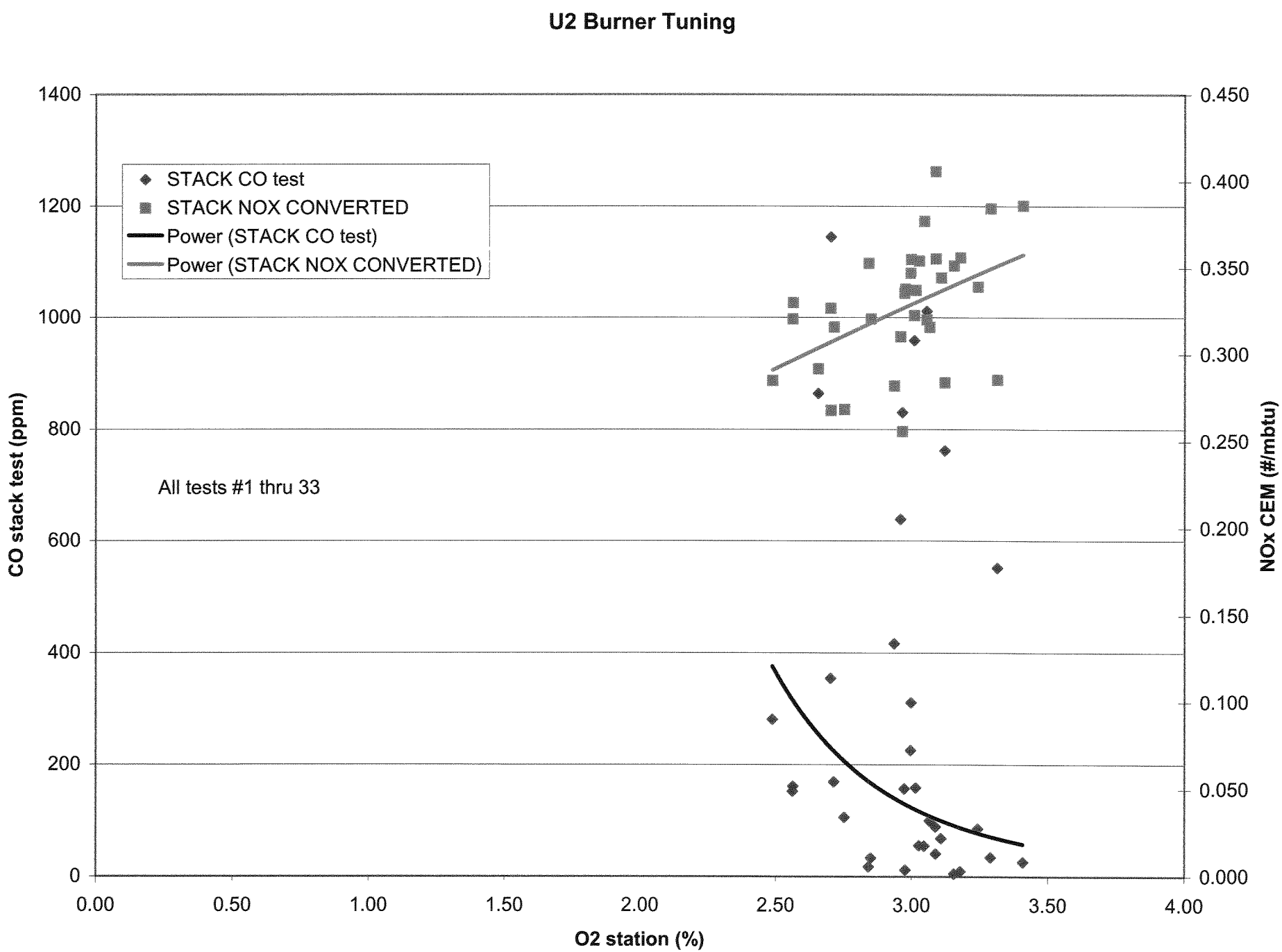
Avg %O2 = #DIV/0! Hi %O2 = 0.00 Lo % O2 = 0.00 O2 Range = 0

IP7_033096

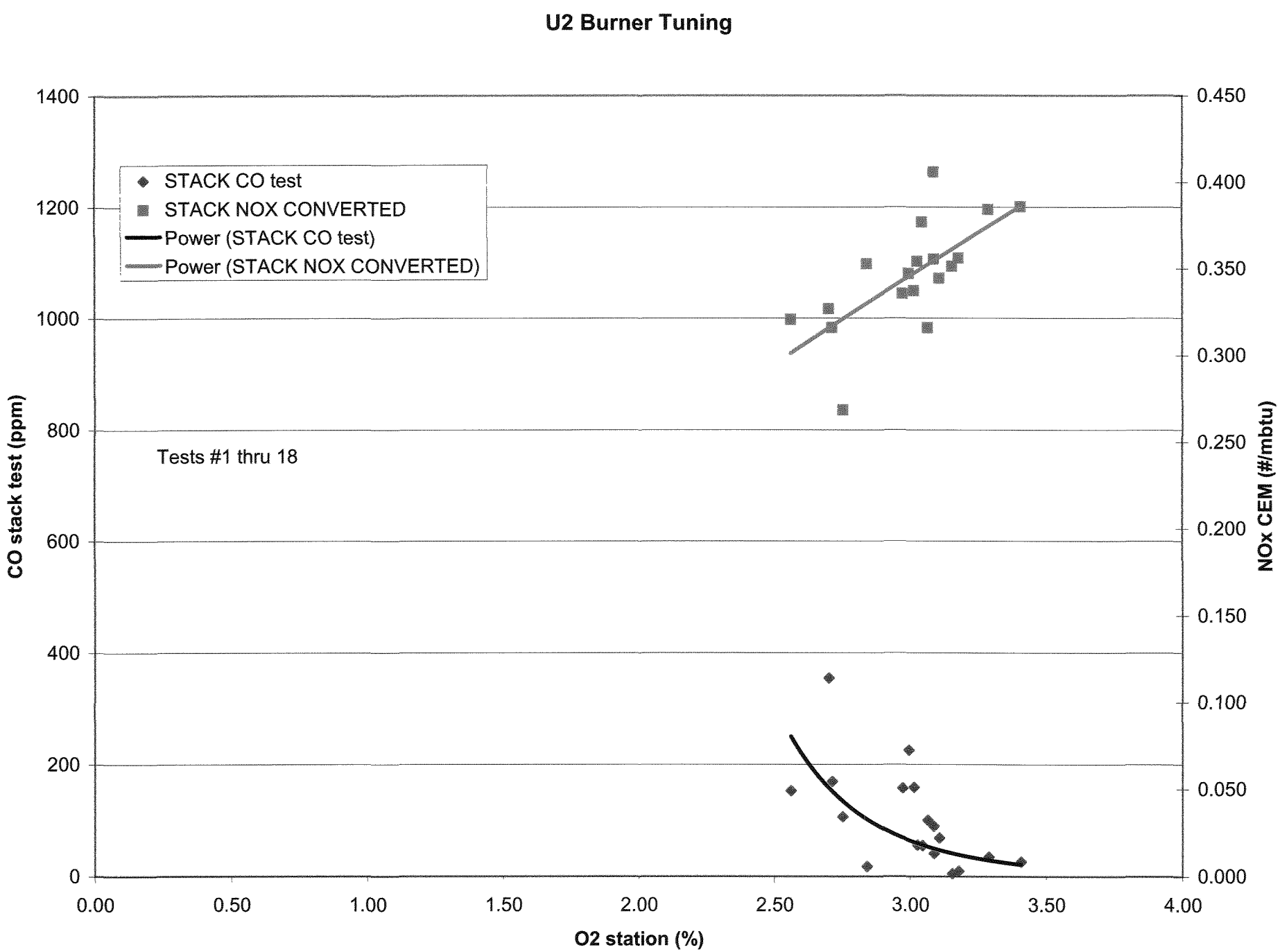
D4, C4



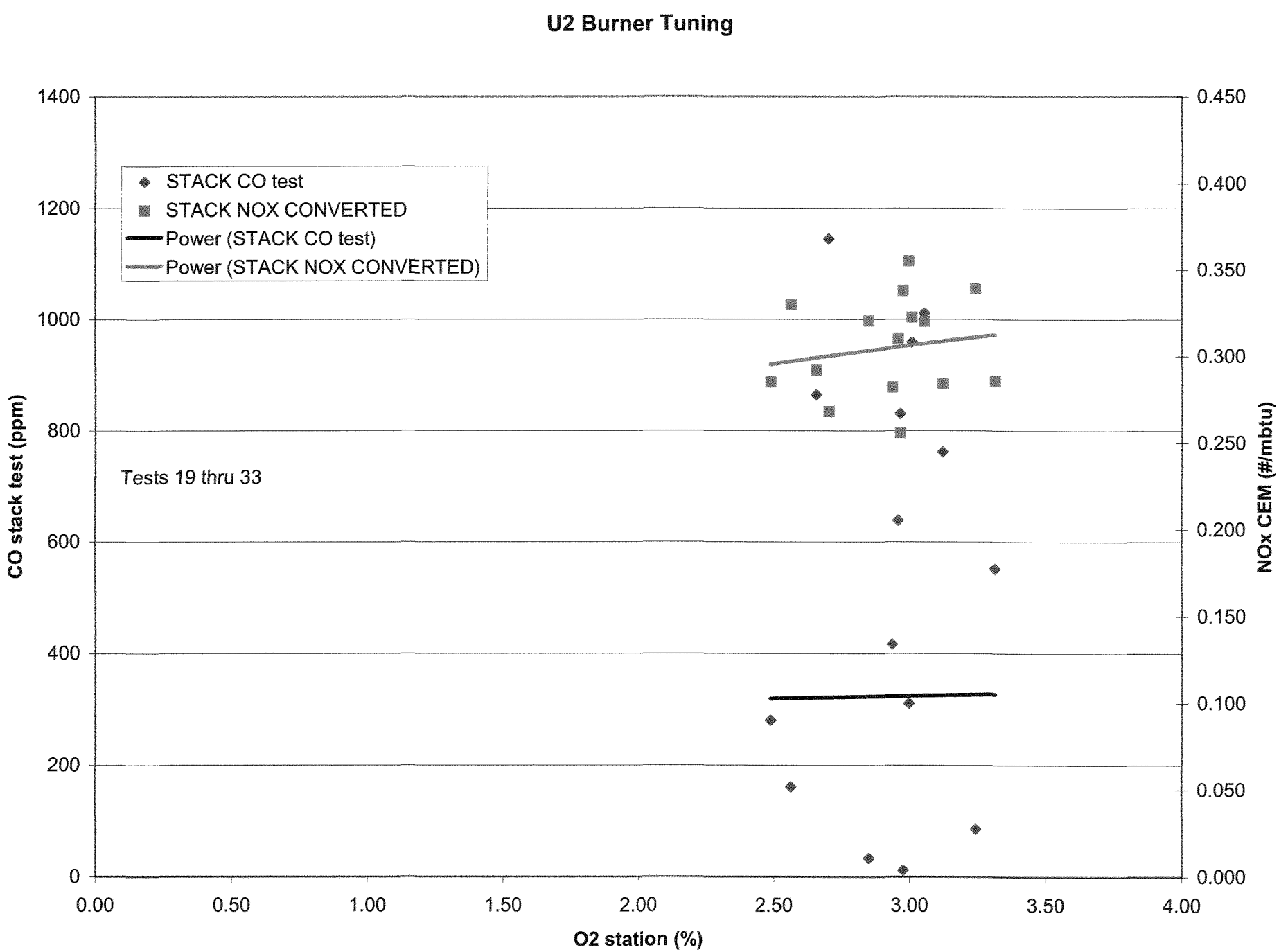
IP7_033097


U2 Burner Tuning
STACK CO test
STACK NOX CONVERTED
Power (STACK CO test)
Power (STACK NOX CONVERTED)
All tests #1 thru 33
CO stack test (ppm)
NOx CEM (#/mbtu)
O2 station (%)
1400
1200
1000
800
600
400
200
0
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00

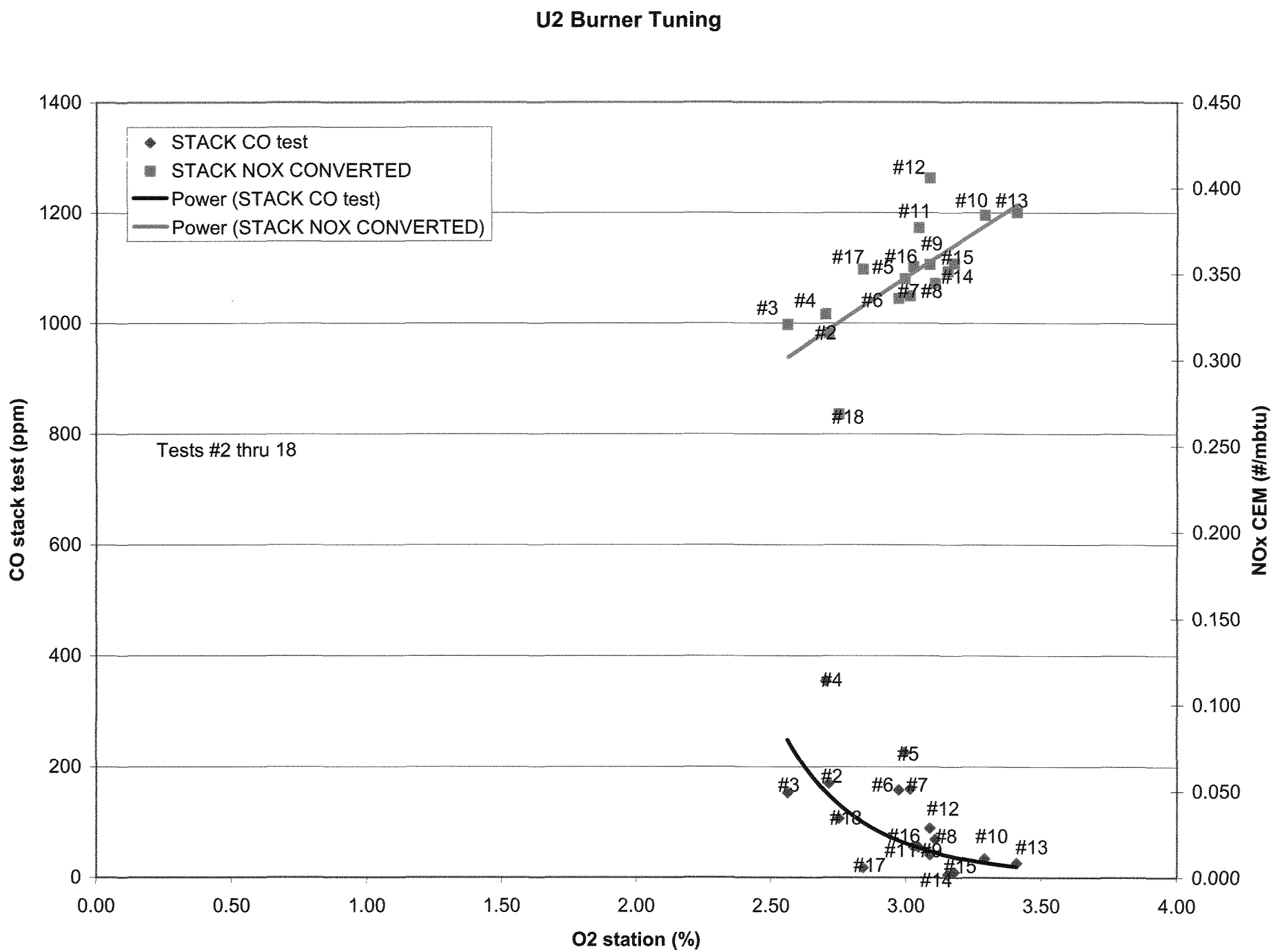
IP7_033098


U2 Burner Tuning
STACK CO test
STACK NOX CONVERTED
Power (STACK CO test)
Power (STACK NOX CONVERTED)
Tests #1 thru 18
CO stack test (ppm)
NOx CEM (#/mbtu)
O2 station (%)
1400
1200
1000
800
600
400
200
0
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00

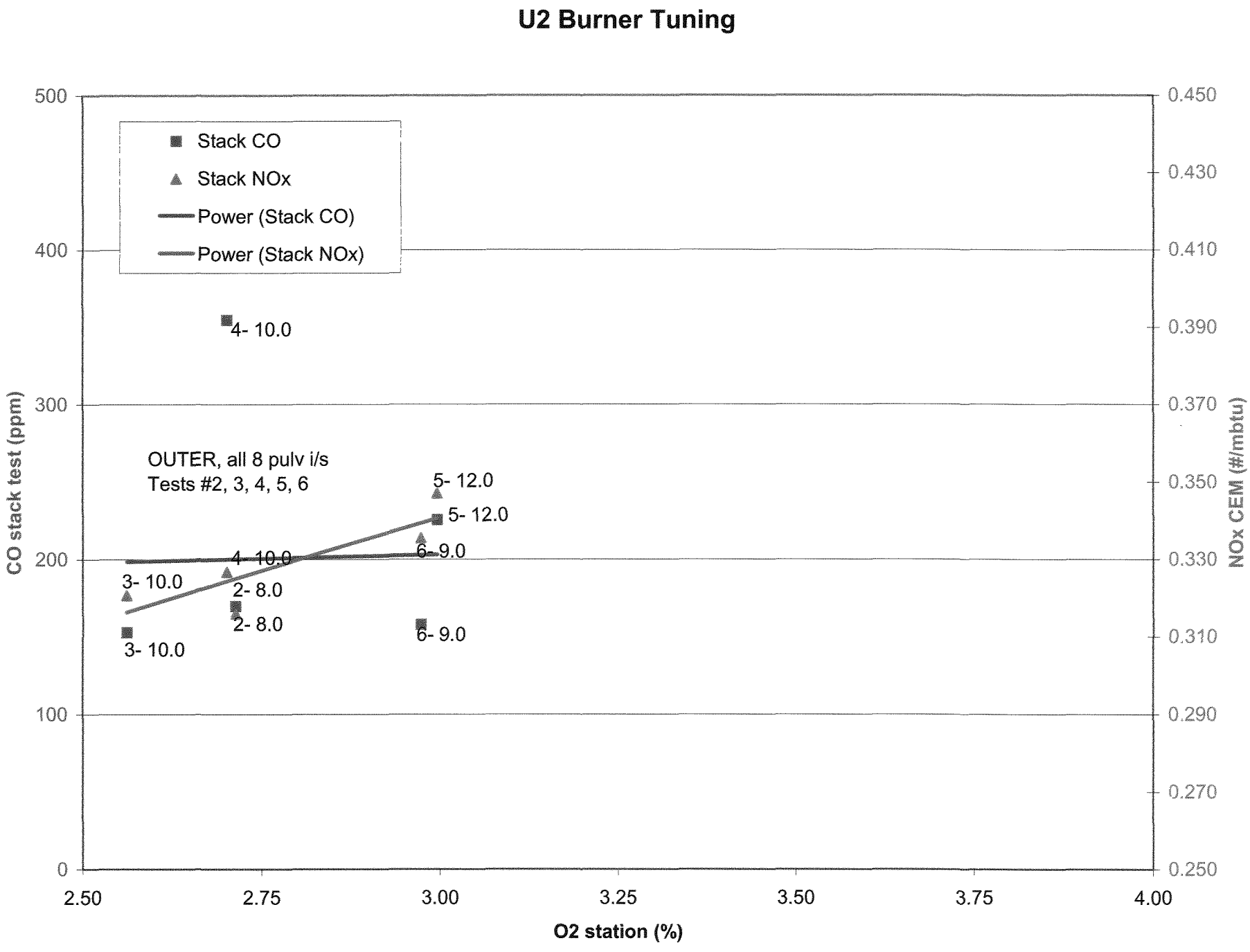
IP7_033099


U2 Burner Tuning
STACK CO test
STACK NOX CONVERTED
Power (STACK CO test)
Power (STACK NOX CONVERTED)
Tests 19 thru 33
CO stack test (ppm)
NOx CEM (#/mbtu)
O2 station (%)
1400
1200
1000
800
600
400
200
0
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00

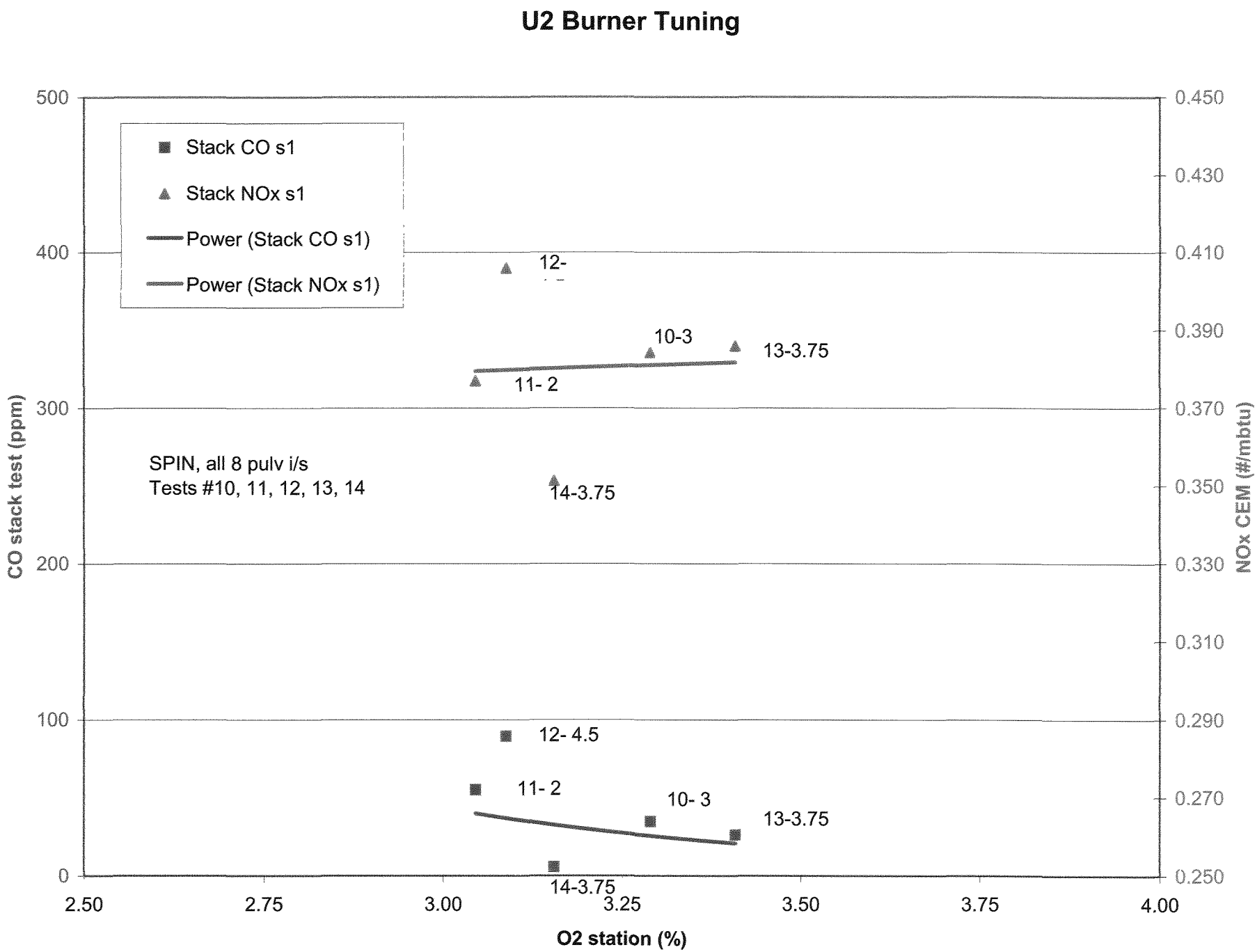
IP7_033100


U2 Burner Tuning
STACK CO test
STACK NOX CONVERTED
Power (STACK CO test)
Power (STACK NOX CONVERTED)
Tests #2 thru 18
CO stack test (ppm)
NOx CEM (#/mbtu)
O2 station (%)
1400
1200
1000
800
600
400
200
0
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
#12
#10
#13
#11
#9
#17
#16
#15
#5
#14
#3
#4
#6
#7
#8
#2
#18
#4
#5
#2
#3
#6
#7
#12
#18
#16
#8
#10
#11
#9
#13
#17
#15
#14

IP7_033101

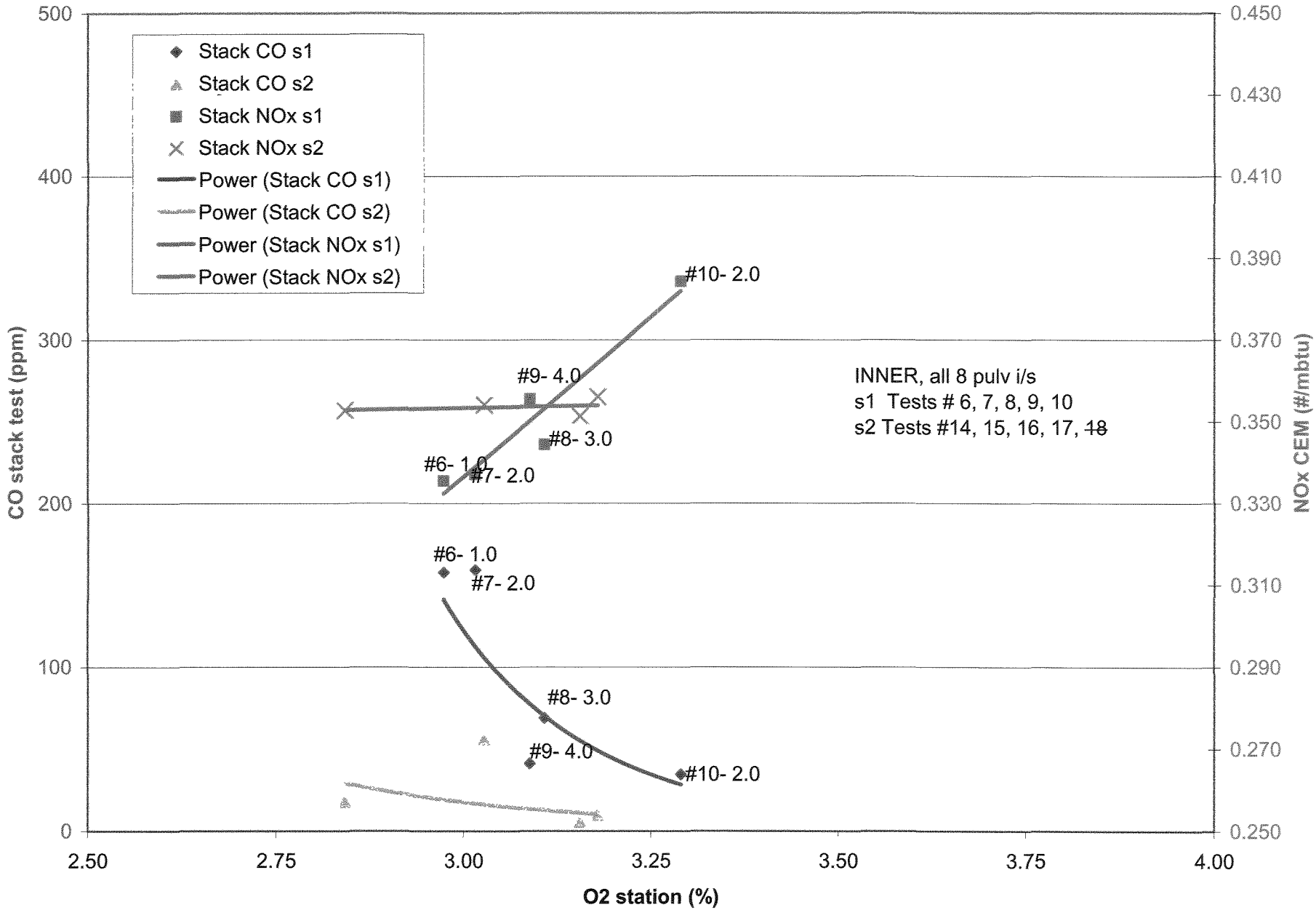

U2 Burner Tuning
Stack CO
Stack NOx
Power (Stack CO)
Power (Stack NOx)
OUTER, all 8 pulv i/s
Tests #2, 3, 4, 5, 6
4- 10.0
5- 12.0
5- 12.0
6- 9.0
4- 10.0
3- 10.0
2- 8.0
2- 8.0
6- 9.0
3- 10.0
CO stack test (ppm)
NOx CEM (#/mbtu)
O2 station (%)
500
400
300
200
100
0
0.450
0.430
0.410
0.390
0.370
0.350
0.330
0.310
0.290
0.270
0.250
2.50
2.75
3.00
3.25
3.50
3.75
4.00

IP7_033102


U2 Burner Tuning
Stack CO s1
Stack NOx s1
Power (Stack CO s1)
Power (Stack NOx s1)
SPIN, all 8 pulv i/s
Tests #10, 11, 12, 13, 14
12-
10-3
13-3.75
11- 2
14-3.75
12- 4.5
11- 2
10- 3
13-3.75
14-3.75
CO stack test (ppm)
NOx CEM (#/mbtu)
O2 station (%)
500
400
300
200
100
0
0.450
0.430
0.410
0.390
0.370
0.350
0.330
0.310
0.290
0.270
0.250
2.50
2.75
3.00
3.25
3.50
3.75
4.00

IP7_033103

U2 Burner Tuning



IP7_033104