APPENDIX B

ANNULUS PRESSURE TEST DATA AND PLOTS

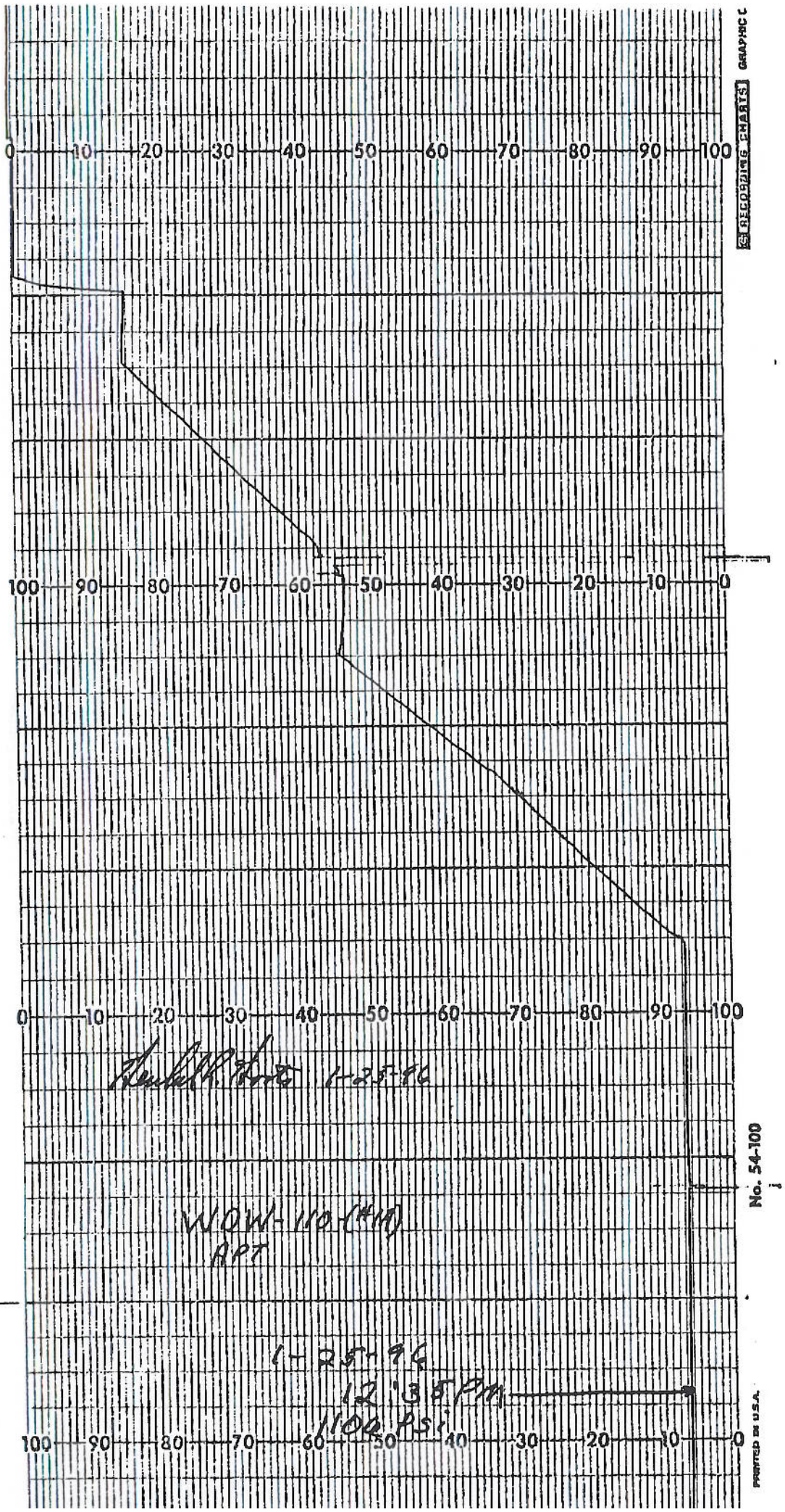
ANNULUS PRESSURE DATA
HOECHST CELANESE CHEMICAL GROUP, LTD.
Bay City Plant
Waste Disposal Well 110 (Well No. 1-A)

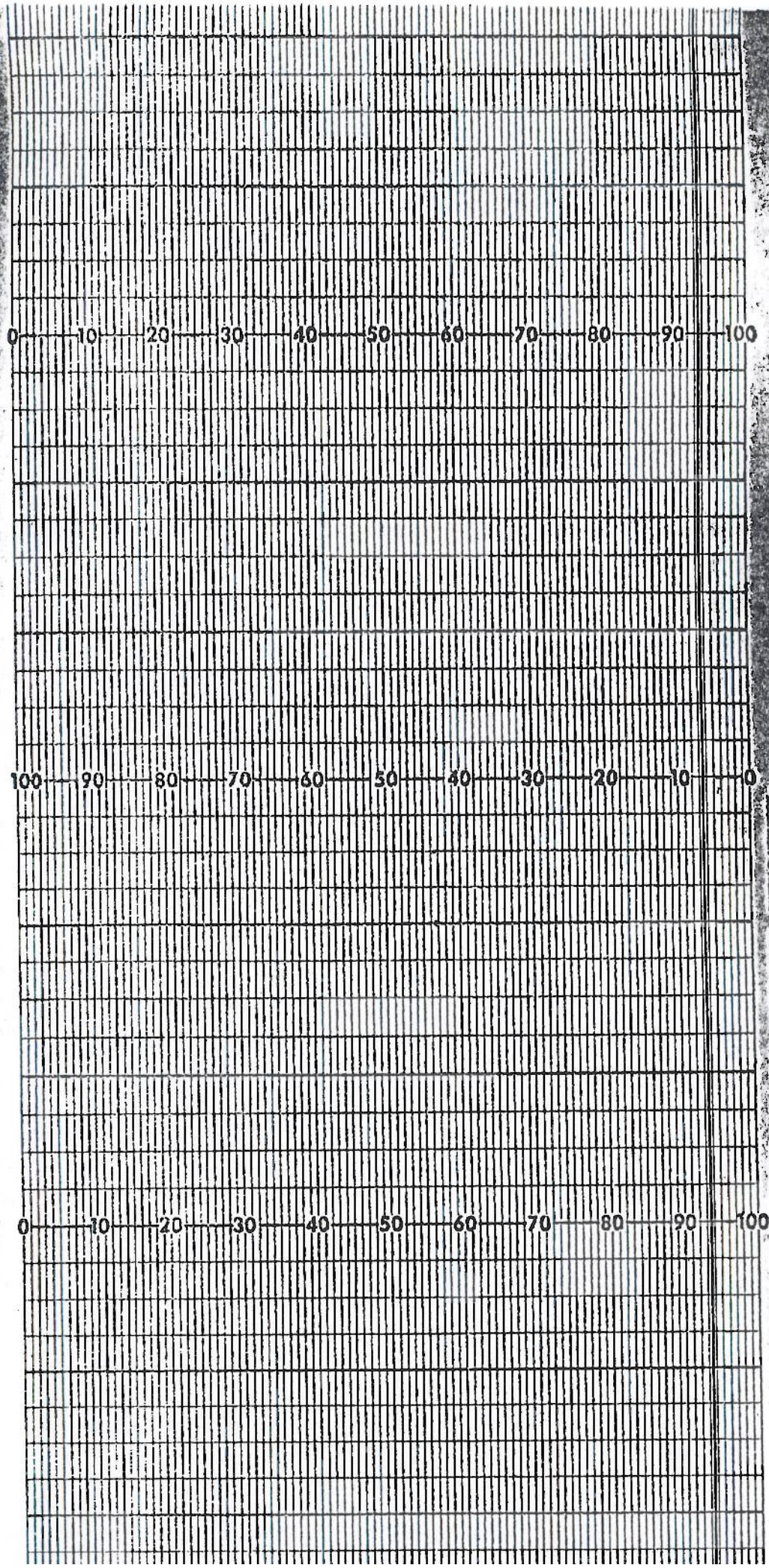
January 25, 1996

Time (am)	Tubing Pressure (psig)	Casing Pressure (psig)	Remarks
9:15	73	859	SI 36 hours following BHP survey
9:30	73	859	SI
9:31	73	900	Starting injection N_2
9:34	73	1050	
9:36	73	1110	Block in N_2 source
9:37	73	1109	
9:45	73	1101	Valves leaking at surface
9:50	73	1095	
10:45	73	800	Bleeding off N_2 gas to 175
11:10	73	175	Repressuring system
11:15	73	500	
11:25	73	1050	
11:27	73	1113	Blocked in N_2 tanks
11:30	73	1110	
11:35	73	1109	Start APT
11:40	73	1109	
11:45	73	1108	
11:50	73	1108	
11:55	73	1108	
12:00 PM	73	1107	
12:05	73	1107	
12:10	73	1107	
12:15	73	1107	
12:20	73	1106	
12:25	73	1106	
12:30	73	1106	
12:35	73	1106	Stop APT
12:40	73	190	Bleed to operating level

Pressure was measured using HCCG's certified calibrated pressure instrument, a portable digital Eaton Pressure Sensor, Type UPC BACB, Serial No. A1258, with optional ranges from zero to 400 psig, zero to 1,000 psig and zero to 2000 psig and was installed onto the annulus outlet. Note: The zero to 2000 psig range was utilized for this test. A certificate of calibration, included in Appendix C, shows that the pressure sensor was calibrated on November 15, 1995.

HCCG's facility digital transmitter pressure recorder, Honeywell Instruments Coop., Smart Honeywell Model ST 3000, normally has a normal pressure range from zero to 1000 psig. However, for the APT the range was modified by Mr. Wilson Cupples and Mr. Ray Horton to a range of zero to 1200 psig. A copy of the computer run (included in Appendix B) shows that the annulus transmitter and recorder were calibrated as an 'End to End" unit on November 15, 1995. Also, the same calibration standard was used on the Eaton Pressure Sensor and the facility digital transmitter pressure recorder.


GRAPHIC C
RECORDING CHARTS
0 10 20 30 40 50 60 70 80 90 100
100 90 80 70 60 50 40 30 20 10 0
0 10 20 30 40 50 60 70 80 90 100
1-25-96
No. 54-100
WOW-110-(410)
APT
1-25-96
12:35 PM
1100 PSI
100 90 80 70 60 50 40 30 20 10 0
PRINTED IN U.S.A.


0 10 20 30 40 50 60 70 80 90 100
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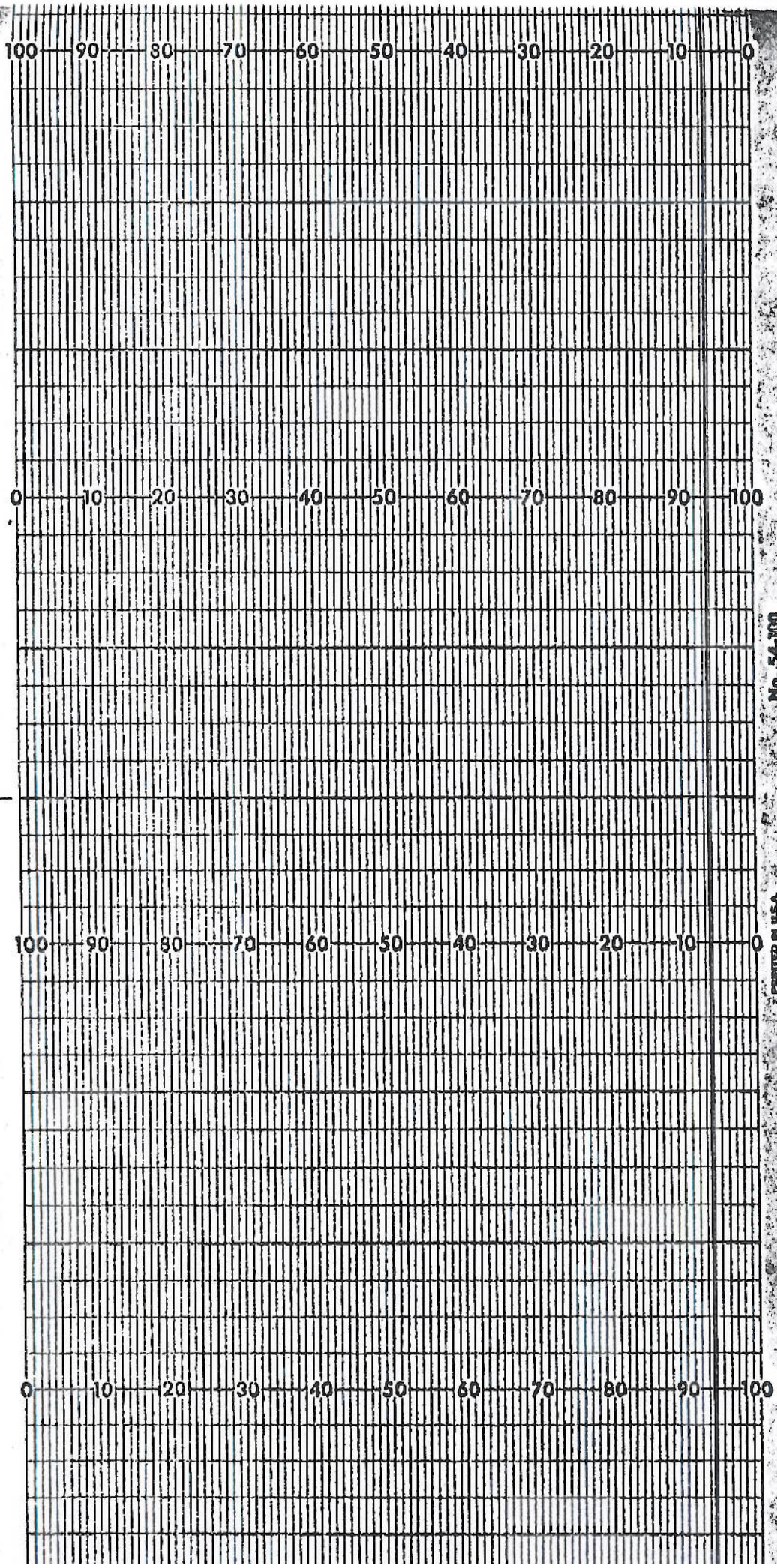
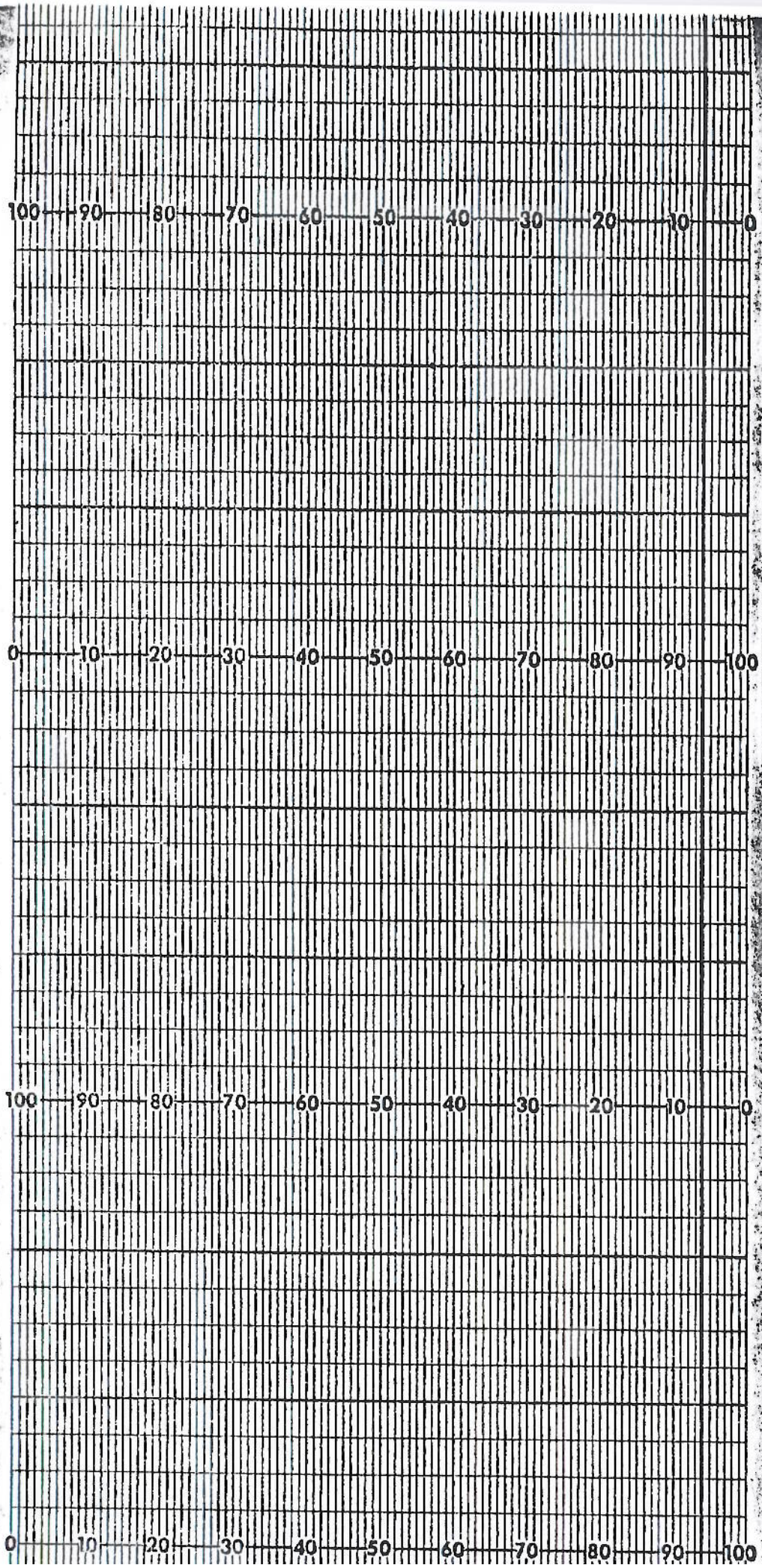
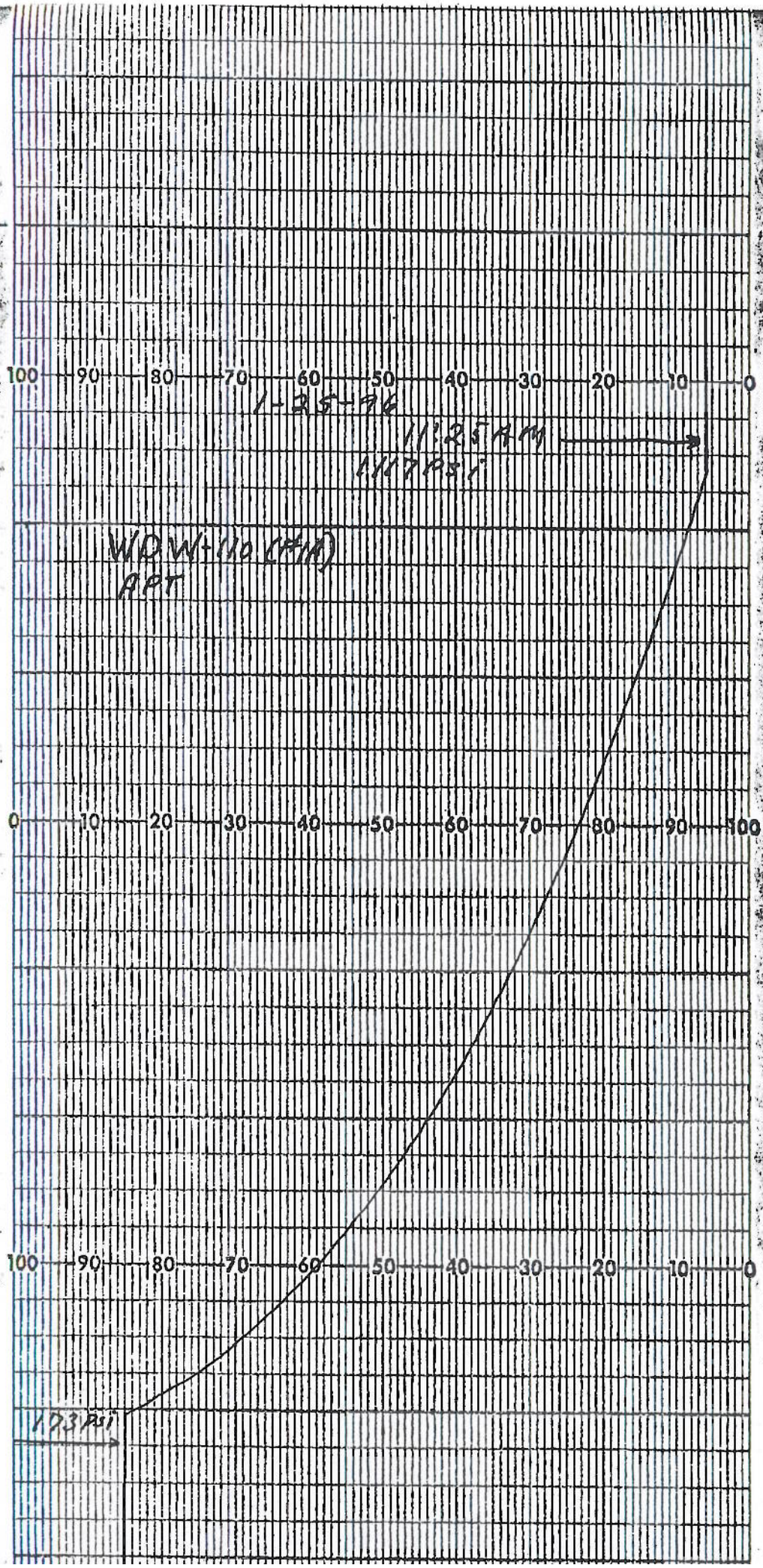
0 10 20 30 40 50 60 70 80 90 100
RECORDING CHARTS
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK



No. 54-100
PRINTED IN U.S.A.


100 90 80 70 60 50 40 30 20 10 0
0 10 20 30 40 50 60 70 80 90 100
100 90 80 70 60 50 40 30 20 10 0
0 10 20 30 40 50 60 70 80 90 100
RECORDING CHARTS
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK



No. 54-100
PRINTED IN U.S.A.
DIETZGEN CORPORATION BUFFALO, NEW YORK

APPENDIX C

CALIBRATION CERTIFICATES

Gauge serial number: 69681
Range: 2514.76 PSIA
Date calibrated: 12/01/95
Date verified: 12/06/95
Model: EPG-520

GRC HOUSTON SERVICE CENTER
CUSTOMER:
GAUGE #:
REFERENCE:

Fax 683-0128

Gauge serial number: 69681
Range: 2514.76 PsiA
Date calibrated: 12/01/95
Date verified: 12/06/95
Model: EPG-520

GAUGE ACCURACY CALCULATIONS

Curve fit: 2.028 PsiA
1/2 Hysteresis: 0.000 PsiA
Short term repeatability at 0 Deg. F: 0.000 PsiA
Long term repeatability at 0 Deg. F: 0.000 PsiA

Overall accuracy: 2.028 PsiA

ELECTRONIC GAUGE CALIBRATION

Gauge serial number: 69681
Range: 2514.76 PsiA
Date calibrated: 12/01/95
Date verified: 12/06/95
Model: EPG-520
Coefficient type: GRC FREQUENCY

TEMPERATURE SUMMARY

Maximum positive error: 0.987 Deg. F
Maximum negative error: -0.892 Deg. F
Sensitivity: 0.085 Deg. F/Hz
Sensitivity: 11.765 Hz/Deg. F

PRESSURE SUMMARY

Maximum positive error: 2.028 PsiA
Occurs at: 349.971 Deg. F
And at: 116.788 PsiA
Maximum negative error: -1.530 PsiA
Occurs at: 349.971 Deg. F
And at: 13.230 PsiA
Sensitivity: 1.741 PsiA/Hz
Sensitivity: 0.574 Hz/PsiA

MILTON M. COOKE COMPANY

WELL TESTING SPECIALISTS

2310 McALLISTER • HOUSTON, TEXAS 77092

713/683-0333

TX. WATS: 1-800-392-3861

FAX: 683-0128

FIELD CALIBRATION CHECK: [PRE-TEST]

(GRC EPG-520 - SURFACE READOUT GAUGE)

DATE: 01/23/1996

D.W.T. S/N: 3469

GRC GAUGE S/N: 69681

D.W.P. (PSIG)	GAUGE PRESSURE (PSIA)	DIFFERENCE (+/-PSI)
0.0	14.41	+14.41
500.0	514.72	+14.72
1000.0	1014.24	+14.24
1500.0	1515.30	+ 15.30

2000.00	2014.09	+14.09
0.00	14.55	+ 14.55

MILTON M. COOKE COMPANY

WELL TESTING SPECIALISTS

2310 McALLISTER • HOUSTON, TEXAS 77092

713/683-0333

TX. WATS: 1-800-392-3861

FAX: 683-0128

FIELD CALIBRATION CHECK: [POST-TEST]

(GRC EPG-520 - SURFACE READOUT GAUGE)

DATE: 01/25/1996

D.W.T. S/N: 3469

GRC GAUGE S/N: 69681

D.W.P. (PSIG)	GAUGE PRESSURE (PSIA)	DIFFERENCE (+/-PSI)
0.0	17.93	+17.93
500.0	514.13	+14.13
1000.0	1014.03	+14.03
1500.0	1514.73	+ 14.73

2000.00	2014.73	+14.73
0.00	14.25	+ 14.25

TRANSCAT®
CALIBRATION LAB
Certificate of Calibration

TRANSCAT will maintain and document the traceability of all its standards to the National Institute of Standards and Technology, NIST (formerly NBS), or the National Research Council, NRC, of Canada, or to other recognized national or international standard bodies, or to measurable conditions created in our laboratory using established physical constants and/or natural physical phenomena, and recognized procedures. The TRANSCAT calibrations system, when applicable, conforms to the requirements of MIL-STD-45662A.

Complete records of work performed are maintained by TRANSCAT and are available for inspection. Laboratory assets used in the performance of this calibration are shown below the certified instrument description.

TEMPERATURE : 68 °F

RELATIVE HUMIDITY OF: 43 %

Customer : HOECHST CELANESE
Manufacturer : EATON CORPORATION
Model Number : UPC5000BACB
Serial Number : A1258
Description : PRESSURE CALIBRATOR ←
Calibrated : 11/15/95
Date Due : 11/15/96 PO# :3310702
RA# : 5-D6356-1-1
ID No. : 00008
ITEM RECEIVED OUT OF TOLERANCE

(Customer Use Only) **NOTES:**

Transmitter & Recorder were calibrated with the pressure calibrator listed to the left.

ASSETS	MANUFACTURER	MODEL#	DESCRIPTION	CALIBRATED	DATE DUE
5019	FLUKE	5700A	METER CALIBRATOR	9/7/95	9/7/96
5020	AMETEK	RK-300	DEAD WEIGHT TESTER	11/18/94	11/18/95
5032	AMETEK	T-150	DEAD WEIGHT TESTER	5/20/95	5/20/96

This is the standard that was used to calibrate the Transmitter/Recorder on 1-23-96. W. Cuppler

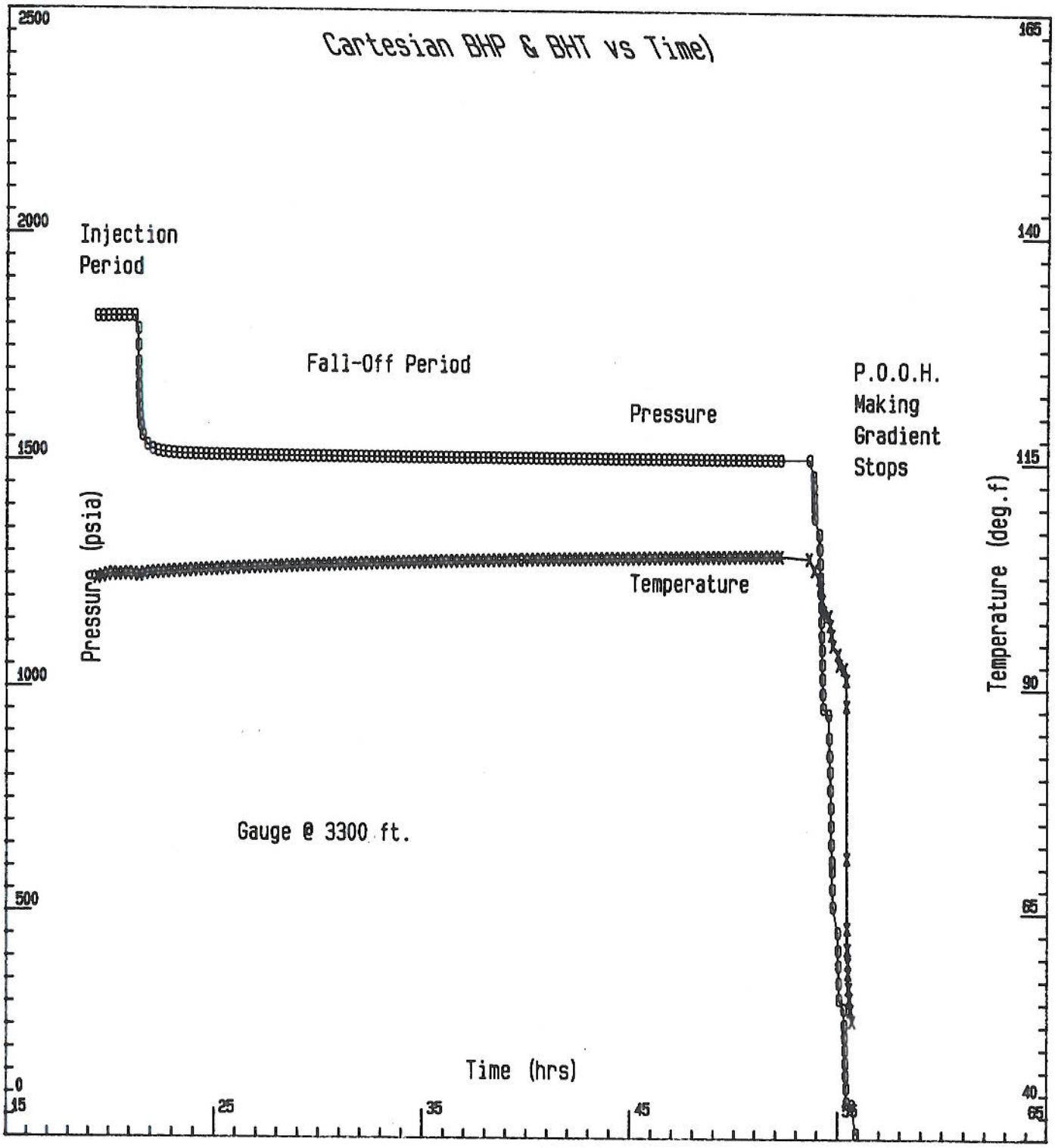
Calibrated at :
1181 Brittmore Suite 600
Houston, TX 77043, USA
800-828-1470 FAX# 800-395-0543
By: Keith Kucera

B. Eckel
B. ECKEL
LAB MANAGER

F0013R2 1/25/95

APPENDIX D

FALLOFF PLOTS



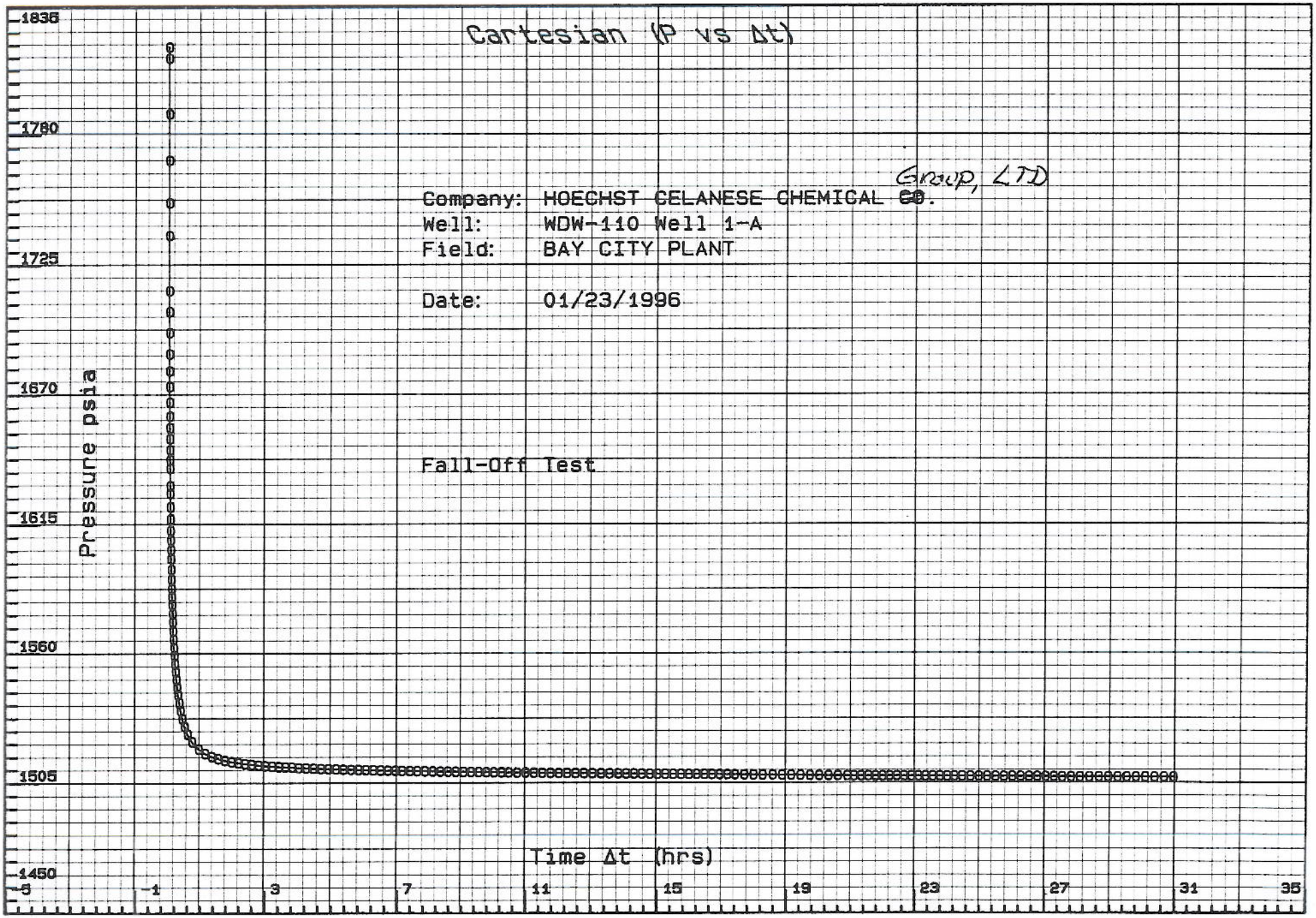
Company: HOECHST CELANESE CHEMICAL ~~CO.~~ Group, LTD.
Well: WDW-110 Well 1-A
Field: BAY CITY PLANT

Date: 01/23/1996

Test History
Begin Time: 19:21:43 01/23/96
End Time: 07:52:04 01/25/96

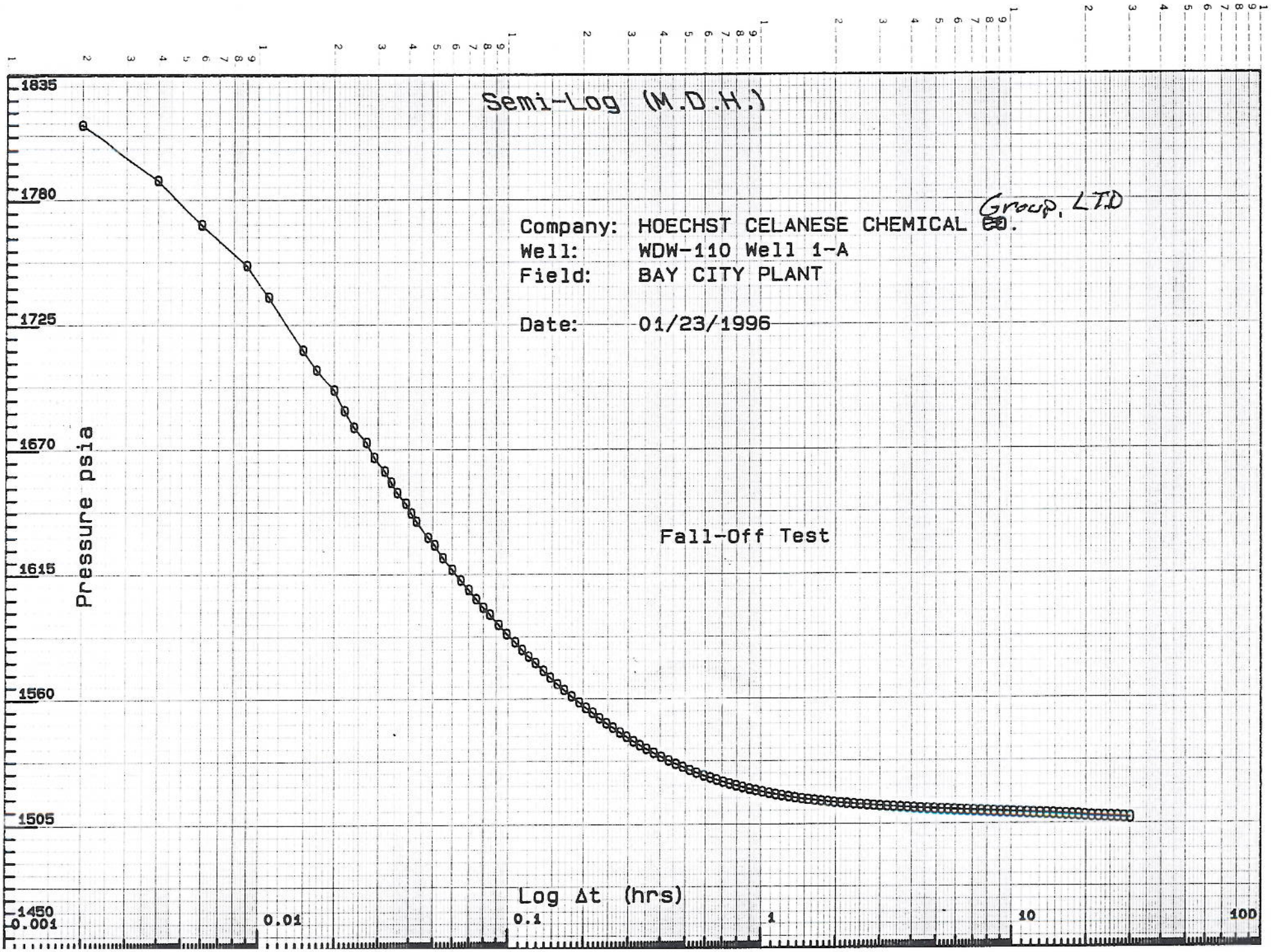
Injection Pressure = 1818 psi
Fall-Off Pressure = 1507 psi
Injection Rate = 213 GPM

10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

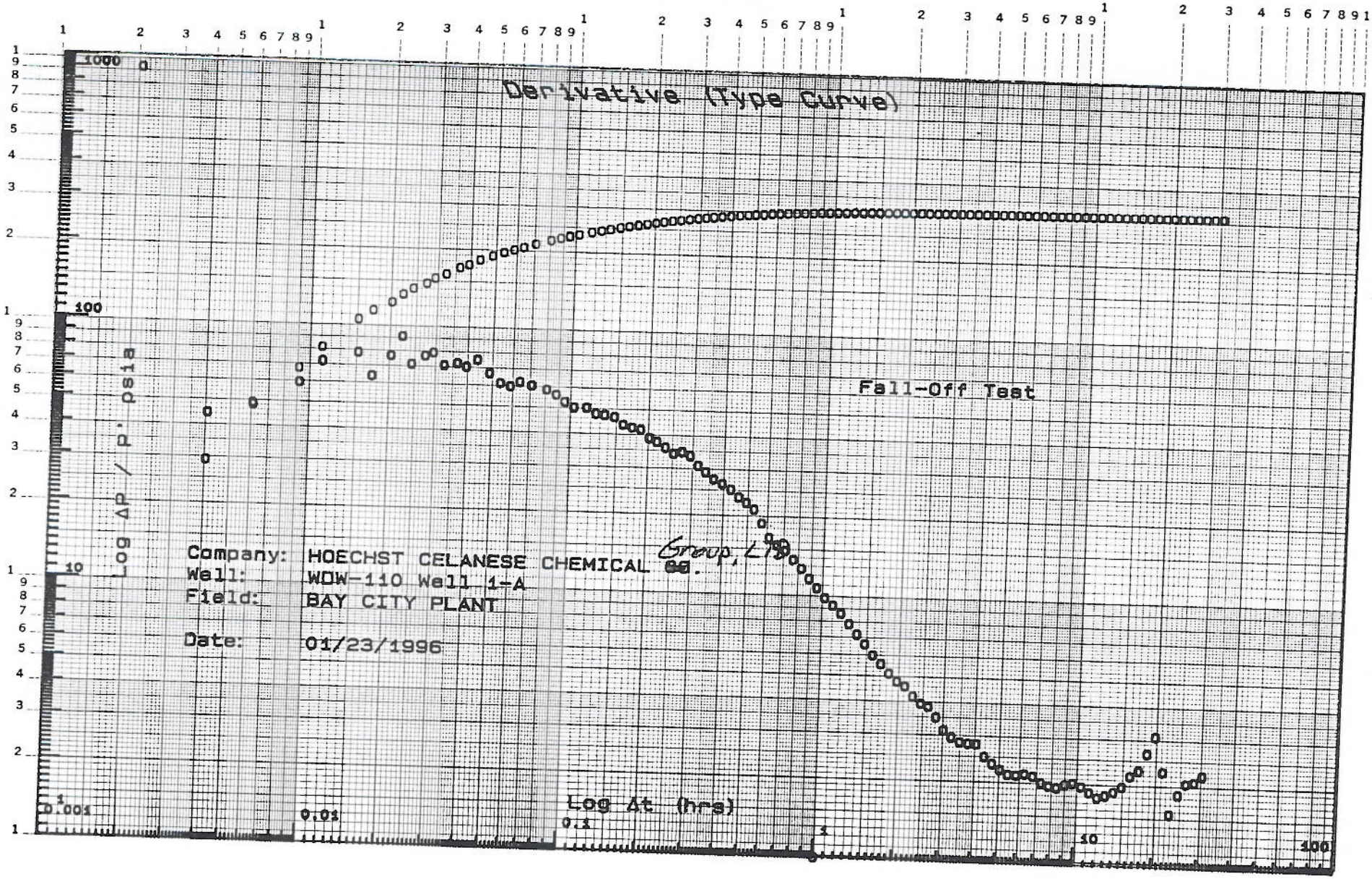


K+E SEMI-LOGARITHMIC 5 CYCLES X 70 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 6210



K+E ARITH x 5 C
KEUFFEL & ESSER CO. MADE IN U.S.A.



APPENDIX E

FALLOFF DATA
FLOW RATE DATA

[Tuesday

1

282

[Wednesday: Janua

1220 1

1966 1

[Thursday: January 25, 19

En
Sh
pac
2614 2 4: 2

Tied
Start
2615 2 5:36:

Depart
2625 2 5:45:5

Depart 3,
2643 2 6: 3: 7

COMMENTS FOR DATA PRINT-OUT

Company: HOECHST CELANESE CHEMICAL ~~CO.~~ Group, LTD
Well: WDW-110 Well 1-A
Field: BAY CITY PLANT

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
[Tuesday: January 23, 1996]					
1	0	Start Data Acquisition System. GRC S.R.O Gauge S/N 69681 @ Test Depth of 3,300 ft Plant Injecting into well @ approximatley 213 GPM. Monitoring Bottom-Hole Injection Pressure. 19:21:43	0.0000	1816.29	102.03
282	0	Shut-Down Injection & Start Fall-Off Test. Monitoring Bottom-Hole Fall-Off Pressure. 21:19:19	1.9600	1817.51	102.31
[Wednesday: January 24, 1996]					
1220	1	Continuing to monitor Bottom-Hole Fall-Off press. 6: 0:22	10.6440	1509.29	103.57
1966	1	Continuing to monitor Bottom-Hole Fall-Off press. 18: 0:15	22.6420	1507.37	104.34
[Thursday: January 25, 1996]					
2614	2	End of Fall-Off Test. Shut-Down Data Acquisition System to tie-in to packer and E.O.T. with CCL. 4:22:19	33.0100	1506.59	104.77
2615	2	Tied into Packer & E.O.T. with CCL. Start Gradient Survey. 5:36:15	34.2420	1506.81	104.49
2625	2	Depart 3,300' 5:45:51	34.4020	1506.59	104.77
2643	2	Depart 3,000' 6: 3: 7	34.6900	1375.99	102.83

(continued)

COMMENTS FOR DATA PRINT-OUT

(continued)

Company: HOECHST CELANESE CHEMICAL ~~Co~~. Group, LTD.
Well: WDW-110 Well 1-A
Field: BAY CITY PLANT

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
		Depart 2,000'			
2673	2	6:31:55	35.1700	941.92	98.23
		Depart 1,000'			
2699	2	6:56:53	35.5860	508.70	93.99
		Depart 500'			
2718	2	7:15: 7	35.8900	292.00	92.61
		Arrived @ Surface.			
2729	2	7:25:41	36.0660	74.51	71.07
		End of Gradient Survey.			
		Bleed-Off Lubricator and rig down e-line equip.			
2755	2	7:50:39	36.4820	77.99	52.08

[Thursday: January 25, 1996]

90
90
90
90
LOG - OH
HAS
RUN
3322'
< Packer - 3322'
3382'
< E.O.T. 3382
3478'

Company: HOECHST CELANESE CHEMICAL ~~CO.~~ Group, LTD.
Well: WDW-110 Well 1-A
Field: BAY CITY PLANT

[Tuesday: Jan. 23, 1996]

Start Data Acquisition System.
GRC S.R.O Gauge S/N 69681 @ Test Depth of 3,300 ft
Plant Injecting into well @ approximatley 213 GPM.
Monitoring Bottom-Hole Injection Pressure.

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
1	0	19:21:43	0.0000	1816.29	102.03
5	0	19:23:39	0.0320	1816.15	102.04
10	0	19:26: 3	0.0720	1816.23	102.07
15	0	19:28:27	0.1120	1816.38	102.10
20	0	19:30:51	0.1520	1816.40	102.13
25	0	19:33:15	0.1920	1816.21	102.15
30	0	19:35:39	0.2320	1815.91	102.17
35	0	19:38: 3	0.2720	1815.97	102.18
40	0	19:40:27	0.3120	1816.11	102.19
45	0	19:42:51	0.3520	1816.22	102.21
50	0	19:45:15	0.3920	1816.26	102.25
55	0	19:47:39	0.4320	1816.35	102.29
60	0	19:50: 3	0.4720	1816.46	102.31
65	0	19:52:27	0.5120	1816.51	102.35
70	0	19:54:51	0.5520	1816.49	102.38
75	0	19:57:15	0.5920	1816.67	102.41
80	0	19:59:39	0.6320	1816.71	102.45
85	0	20: 2: 3	0.6720	1816.76	102.47
90	0	20: 4:27	0.7120	1816.72	102.48
95	0	20: 6:51	0.7520	1816.83	102.48
100	0	20: 9:15	0.7920	1816.90	102.45
105	0	20:11:42	0.8330	1816.93	102.43
110	0	20:14: 6	0.8730	1817.14	102.43
115	0	20:16:30	0.9130	1817.11	102.43
120	0	20:18:54	0.9530	1817.06	102.42
125	0	20:21:18	0.9930	1817.12	102.42
130	0	20:23:42	1.0330	1817.11	102.42
135	0	20:26: 6	1.0730	1817.11	102.41
140	0	20:28:30	1.1130	1817.06	102.40
145	0	20:30:54	1.1530	1817.04	102.42
150	0	20:33:18	1.1930	1817.08	102.43
155	0	20:35:42	1.2330	1817.20	102.43
160	0	20:38: 6	1.2730	1817.20	102.44
165	0	20:40:30	1.3130	1817.24	102.46
170	0	20:42:54	1.3530	1817.27	102.46
175	0	20:45:18	1.3930	1817.26	102.47
180	0	20:47:42	1.4330	1817.39	102.49
185	0	20:50: 6	1.4730	1817.38	102.49
190	0	20:52:30	1.5130	1817.35	102.49
195	0	20:54:54	1.5530	1817.34	102.50
200	0	20:57:18	1.5930	1817.27	102.49
205	0	20:59:42	1.6330	1817.27	102.48
210	0	21: 2: 6	1.6730	1817.29	102.48
215	0	21: 4:30	1.7130	1817.41	102.48
220	0	21: 6:54	1.7530	1817.30	102.45
225	0	21: 9:18	1.7930	1817.36	102.43

Company: HOECHST CELANESE CHEMICAL CO.
Well: WDW-110 Well 1-A
Field: BAY CITY PLANT

[Tuesday: Jan. 23, 1996]

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
230	0	21:11:49	1.8350	1817.35	102.40
245	0	21:13:55	1.8700	1817.39	102.37
259	0	21:15:58	1.9040	1817.40	102.34
274	0	21:18: 4	1.9390	1817.47	102.32
275	0	21:18:11	1.9410	1817.45	102.32
276	0	21:18:29	1.9460	1817.48	102.32
277	0	21:18:36	1.9480	1817.52	102.32
278	0	21:18:47	1.9510	1817.53	102.32
279	0	21:18:54	1.9530	1817.51	102.32
280	0	21:19: 1	1.9550	1817.52	102.32
281	0	21:19: 9	1.9570	1817.50	102.31
		Shut-Down Injection & Start Fall-Off Test.			
		Monitoring Bottom-Hole Fall-Off Pressure.			
282	0	21:19:19	1.9600	1817.51	102.31
283	0	21:19:27	1.9620	1812.64	102.31
284	0	21:19:34	1.9640	1788.71	102.31
285	0	21:19:41	1.9660	1769.21	102.31
286	0	21:19:52	1.9690	1751.30	102.31
287	0	21:19:59	1.9710	1737.32	102.31
288	0	21:20:13	1.9750	1713.90	102.31
289	0	21:20:21	1.9770	1705.14	102.31
290	0	21:20:31	1.9800	1696.15	102.30
291	0	21:20:39	1.9820	1687.11	102.30
292	0	21:20:46	1.9840	1679.88	102.31
293	0	21:20:57	1.9870	1673.22	102.30
294	0	21:21: 4	1.9890	1666.47	102.30
295	0	21:21:15	1.9920	1660.49	102.30
296	0	21:21:22	1.9940	1655.61	102.30
297	0	21:21:29	1.9960	1651.02	102.30
298	0	21:21:40	1.9990	1646.26	102.30
299	0	21:21:47	2.0010	1641.98	102.30
300	0	21:21:54	2.0030	1638.41	102.31
301	0	21:22:12	2.0080	1631.06	102.31
302	0	21:22:23	2.0110	1627.75	102.31
303	0	21:22:30	2.0130	1624.69	102.31
304	0	21:22:37	2.0150	1622.13	102.31
305	0	21:22:48	2.0180	1619.64	102.31
306	0	21:22:55	2.0200	1616.99	102.32
307	0	21:23: 6	2.0230	1614.51	102.32
308	0	21:23:13	2.0250	1612.17	102.32
309	0	21:23:21	2.0270	1610.18	102.32
310	0	21:23:31	2.0300	1608.05	102.32
311	0	21:23:39	2.0320	1605.98	102.33
312	0	21:23:49	2.0350	1604.02	102.32
313	0	21:24: 7	2.0400	1600.23	102.33
314	0	21:24:15	2.0420	1598.85	102.33
315	0	21:24:25	2.0450	1597.18	102.33
316	0	21:24:33	2.0470	1595.59	102.33
317	0	21:24:43	2.0500	1594.06	102.33
318	0	21:24:51	2.0520	1592.61	102.34

325	0	21:29:
326	0	21:29:
327	0	21:30:
328	0	21:30:1
329	0	21:30:25
330	0	21:30:36
331	0	21:30:43
332	0	21:30:54
333	0	21:31: 1
334	0	21:31:12
335	0	21:31:19
336	0	21:31:30
337	0	21:31:37
338	0	21:31:48
339	0	21:32: 6
340	0	21:32:13
341	0	21:32:24
342	0	21:32:31
343	0	21:32:42
344	0	21:32:49

Company: HOECHST CELANESE CHEMICAL CO.
Well: WDW-110 Well 1-A
Field: BAY CITY PLANT

[Tuesday: Jan. 23, 1996]

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
319	0	21:24:58	2.0540	1591.32	102.34
320	0	21:25: 9	2.0570	1589.97	102.37
321	0	21:25:16	2.0590	1588.63	102.34
322	0	21:25:27	2.0620	1587.33	102.34
323	0	21:25:34	2.0640	1586.11	102.35
324	0	21:25:45	2.0670	1585.04	102.35
325	0	21:25:52	2.0690	1583.86	102.35
326	0	21:26:10	2.0740	1581.61	102.36
327	0	21:26:21	2.0770	1580.57	102.36
328	0	21:26:28	2.0790	1579.54	102.36
329	0	21:26:35	2.0810	1578.63	102.37
330	0	21:26:46	2.0840	1577.65	102.37
331	0	21:26:53	2.0860	1576.70	102.37
332	0	21:27: 4	2.0890	1575.76	102.37
333	0	21:27:11	2.0910	1574.88	102.38
334	0	21:27:22	2.0940	1573.99	102.37
335	0	21:27:29	2.0960	1573.13	102.38
336	0	21:27:40	2.0990	1572.30	102.38
337	0	21:27:47	2.1010	1571.47	102.38
338	0	21:28: 5	2.1060	1569.99	102.39
339	0	21:28:12	2.1080	1569.30	102.39
340	0	21:28:23	2.1110	1568.57	102.39
341	0	21:28:30	2.1130	1567.84	102.40
342	0	21:28:41	2.1160	1567.12	102.39
343	0	21:28:48	2.1180	1566.42	102.39
344	0	21:28:59	2.1210	1565.74	102.40
345	0	21:29: 6	2.1230	1565.10	102.40
346	0	21:29:17	2.1260	1564.44	102.40
347	0	21:29:24	2.1280	1563.80	102.40
348	0	21:29:35	2.1310	1563.18	102.40
349	0	21:29:42	2.1330	1562.57	102.40
350	0	21:29:53	2.1360	1561.98	102.41
351	0	21:30: 7	2.1400	1560.87	102.41
352	0	21:30:18	2.1430	1560.31	102.41
353	0	21:30:25	2.1450	1559.76	102.41
354	0	21:30:36	2.1480	1559.23	102.41
355	0	21:30:43	2.1500	1558.69	102.41
356	0	21:30:54	2.1530	1558.17	102.42
357	0	21:31: 1	2.1550	1557.67	102.42
358	0	21:31:12	2.1580	1557.16	102.42
359	0	21:31:19	2.1600	1556.69	102.42
360	0	21:31:30	2.1630	1556.20	102.42
361	0	21:31:37	2.1650	1555.73	102.42
362	0	21:31:48	2.1680	1555.26	102.42
363	0	21:32: 6	2.1730	1554.36	102.42
364	0	21:32:13	2.1750	1553.97	102.42
365	0	21:32:24	2.1780	1553.55	102.43
366	0	21:32:31	2.1800	1553.13	102.43
367	0	21:32:42	2.1830	1552.71	102.43
368	0	21:32:49	2.1850	1552.28	102.43

377	0	21:37:57
378	0	21:38: 4
379	0	21:38:15
380	0	21:38:22
381	0	21:38:29
382	0	21:38:40
383	0	21:38:54
384	0	21:39: 1
385	0	21:39:12
386	0	21:39:19
387	0	21:39:27
388	0	21:39:34
389	0	21:39:39
390	0	21:39:49
391	0	21:39:57
392	0	21:40: 4
393	0	21:40:15
394	0	21:40:22
395	0	21:40:29
396	0	21:40:40
397	0	21:40:54
398	0	21:41: 1
399	0	21:41:12
400	0	21:41:19
401	0	21:41:27
402	0	21:41:34
403	0	21:41:39
404	0	21:41:49
405	0	21:41:57
406	0	21:42: 4
407	0	21:42:15
408	0	21:42:22
409	0	21:42:29
410	0	21:42:40
411	0	21:42:54
412	0	21:43: 1
413	0	21:43:12
414	0	21:43:19
415	0	21:43:27
416	0	21:43:34
417	0	21:43:39
418	0	21:43:49

Company: HOECHST CELANESE CHEMICAL CO.
Well: WDW-110 Well 1-A
Field: BAY CITY PLANT

[Tuesday: Jan. 23, 1996]

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
369	0	21:33: 0	2.1880	1551.89	102.43
370	0	21:33: 7	2.1900	1551.50	102.43
371	0	21:33:15	2.1920	1551.15	102.43
372	0	21:33:25	2.1950	1550.77	102.44
373	0	21:33:33	2.1970	1550.39	102.44
374	0	21:33:43	2.2000	1550.03	102.44
375	0	21:33:51	2.2020	1549.65	102.44
376	0	21:34: 9	2.2070	1548.93	102.44
377	0	21:34:19	2.2100	1548.61	102.44
378	0	21:34:27	2.2120	1548.27	102.45
379	0	21:34:37	2.2150	1547.93	102.45
380	0	21:34:45	2.2170	1547.60	102.45
381	0	21:34:55	2.2200	1547.26	102.45
382	0	21:35: 3	2.2220	1546.97	102.45
383	0	21:35:13	2.2250	1546.64	102.46
384	0	21:35:21	2.2270	1546.32	102.45
385	0	21:35:31	2.2300	1546.02	102.46
386	0	21:35:39	2.2320	1545.68	102.46
387	0	21:35:46	2.2340	1545.39	102.46
388	0	21:36: 4	2.2390	1544.79	102.46
389	0	21:36:15	2.2420	1544.51	102.46
390	0	21:36:22	2.2440	1544.24	102.47
391	0	21:36:29	2.2460	1543.97	102.47
392	0	21:36:40	2.2490	1543.68	102.47
393	0	21:36:47	2.2510	1543.38	102.47
394	0	21:36:58	2.2540	1543.14	102.47
395	0	21:37: 5	2.2560	1542.87	102.47
396	0	21:37:12	2.2580	1542.62	102.47
397	0	21:37:23	2.2610	1542.37	102.47
398	0	21:37:30	2.2630	1542.15	102.48
399	0	21:37:37	2.2650	1541.90	102.48
400	0	21:37:48	2.2680	1541.67	102.48
401	0	21:38: 6	2.2730	1541.11	102.48
402	0	21:38:13	2.2750	1540.91	102.48
403	0	21:38:21	2.2770	1540.69	102.48
404	0	21:38:31	2.2800	1540.46	102.48
405	0	21:38:39	2.2820	1540.22	102.48
406	0	21:38:49	2.2850	1540.02	102.49
407	0	21:38:57	2.2870	1539.81	102.49
408	0	21:39: 4	2.2890	1539.59	102.49
409	0	21:39:15	2.2920	1539.37	102.49
410	0	21:39:22	2.2940	1539.18	102.49
411	0	21:39:29	2.2960	1538.97	102.49
412	0	21:39:40	2.2990	1538.79	102.49
413	0	21:39:54	2.3030	1538.35	102.49
414	0	21:40: 1	2.3050	1538.20	102.50
415	0	21:40:12	2.3080	1538.01	102.50
416	0	21:40:19	2.3100	1537.83	102.50
417	0	21:40:27	2.3120	1537.67	102.50
418	0	21:40:34	2.3140	1537.49	102.50

Company: HOECHST CELANESE CHEMICAL CO.
Well: WDW-110 Well 1-A [Tuesday: Jan. 23, 1996]
Field: BAY CITY PLANT

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
419	0	21:40:45	2.3170	1537.31	102.50
420	0	21:41: 3	2.3220	1536.89	102.50
421	0	21:41:13	2.3250	1536.63	102.50
422	0	21:41:31	2.3300	1536.31	102.50
423	0	21:41:46	2.3340	1536.04	102.50
424	0	21:42: 0	2.3380	1535.74	102.50
425	0	21:42:15	2.3420	1535.46	102.51
426	0	21:42:33	2.3470	1535.05	102.51
427	0	21:42:51	2.3520	1534.76	102.51
428	0	21:43: 1	2.3550	1534.49	102.51
429	0	21:43:16	2.3590	1534.24	102.51
430	0	21:43:34	2.3640	1533.96	102.51
431	0	21:43:45	2.3670	1533.72	102.51
432	0	21:44: 3	2.3720	1533.47	102.51
433	0	21:44:13	2.3750	1533.23	102.51
434	0	21:44:28	2.3790	1532.99	102.52
435	0	21:44:46	2.3840	1532.74	102.52
436	0	21:44:57	2.3870	1532.52	102.52
437	0	21:45:15	2.3920	1532.28	102.52
438	0	21:45:33	2.3970	1531.93	102.52
439	0	21:45:43	2.4000	1531.76	102.53
440	0	21:46: 1	2.4050	1531.54	102.52
441	0	21:46:16	2.4090	1531.34	102.52
442	0	21:46:30	2.4130	1531.12	102.53
443	0	21:46:45	2.4170	1530.92	102.53
444	0	21:46:55	2.4200	1530.73	102.53
445	0	21:47:13	2.4250	1530.53	102.53
446	0	21:47:28	2.4290	1530.34	102.53
447	0	21:47:42	2.4330	1530.15	102.53
448	0	21:47:57	2.4370	1529.98	102.53
449	0	21:48: 7	2.4400	1529.80	102.54
450	0	21:48:25	2.4450	1529.60	102.54
451	0	21:48:43	2.4500	1529.35	102.54
452	0	21:48:58	2.4540	1529.16	102.54
453	0	21:49:12	2.4580	1528.97	102.54
454	0	21:49:27	2.4620	1528.79	102.54
455	0	21:49:41	2.4660	1528.62	102.54
456	0	21:49:55	2.4700	1528.45	102.54
457	0	21:50:10	2.4740	1528.27	102.54
458	0	21:50:24	2.4780	1528.10	102.54
459	0	21:50:39	2.4820	1527.94	102.55
460	0	21:50:53	2.4860	1527.77	102.55
461	0	21:51: 7	2.4900	1527.63	102.55
462	0	21:51:22	2.4940	1527.46	102.55
463	0	21:51:40	2.4990	1527.23	102.55
464	0	21:51:54	2.5030	1527.11	102.55
465	0	21:52: 9	2.5070	1526.96	102.55
466	0	21:52:23	2.5110	1526.83	102.55
467	0	21:52:37	2.5150	1526.68	102.55
468	0	21:52:52	2.5190	1526.54	102.55

Company: HOECHST CELANESE CHEMICAL CO.
Well: WDW-110 Well 1-A
Field: BAY CITY PLANT

[Tuesday: Jan. 23, 1996]

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)	BHT (Deg.F)
469	0	21:53: 6	2.5230	1526.41	102.55
470	0	21:53:21	2.5270	1526.27	102.55
471	0	21:53:35	2.5310	1526.15	102.55
472	0	21:53:49	2.5350	1526.02	102.56
473	0	21:54: 4	2.5390	1525.89	102.56
474	0	21:54:18	2.5430	1525.77	102.56
475	0	21:54:33	2.5470	1525.65	102.56
476	0	21:54:54	2.5530	1525.47	102.55
477	0	21:55: 9	2.5570	1525.36	102.56
478	0	21:55:23	2.5610	1525.25	102.56
479	0	21:55:37	2.5650	1525.15	102.56
480	0	21:55:52	2.5690	1525.03	102.56
481	0	21:56: 6	2.5730	1524.92	102.57
482	0	21:56:21	2.5770	1524.82	102.57
483	0	21:56:35	2.5810	1524.72	102.57
484	0	21:56:49	2.5850	1524.61	102.57
485	0	21:57: 4	2.5890	1524.51	102.57
486	0	21:57:18	2.5930	1524.41	102.57
487	0	21:57:33	2.5970	1524.30	102.57
488	0	21:57:54	2.6030	1524.15	102.58
489	0	21:58: 9	2.6070	1524.08	102.58
490	0	21:58:23	2.6110	1523.98	102.58
491	0	21:58:37	2.6150	1523.89	102.58
492	0	21:58:52	2.6190	1523.79	102.58
493	0	21:59: 6	2.6230	1523.69	102.58
494	0	21:59:21	2.6270	1523.60	102.58
495	0	21:59:35	2.6310	1523.51	102.58
496	0	21:59:49	2.6350	1523.42	102.58
497	0	22: 0: 4	2.6390	1523.32	102.58
498	0	22: 0:18	2.6430	1523.25	102.58
499	0	22: 0:33	2.6470	1523.16	102.58
500	0	22: 0:58	2.6540	1522.99	102.58
501	0	22: 1:23	2.6610	1522.84	102.58
502	0	22: 1:45	2.6670	1522.71	102.58
503	0	22: 2: 6	2.6730	1522.59	102.58
504	0	22: 2:28	2.6790	1522.47	102.59
505	0	22: 2:49	2.6850	1522.36	102.59
506	0	22: 3:11	2.6910	1522.24	102.59
507	0	22: 3:33	2.6970	1522.12	102.59
508	0	22: 3:54	2.7030	1522.01	102.59
509	0	22: 4:16	2.7090	1521.89	102.59
510	0	22: 4:37	2.7150	1521.78	102.59
511	0	22: 4:59	2.7210	1521.67	102.59
512	0	22: 5:21	2.7270	1521.56	102.59
513	0	22: 5:42	2.7330	1521.41	102.60
514	0	22: 6: 4	2.7390	1521.35	102.60
515	0	22: 6:25	2.7450	1521.25	102.60
516	0	22: 6:47	2.7510	1521.15	102.60
517	0	22: 7: 9	2.7570	1521.05	102.60
518	0	22: 7:30	2.7630	1520.95	102.60