Form Approved. OMB No. 2000-0042. Approval expires 9-30-86

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

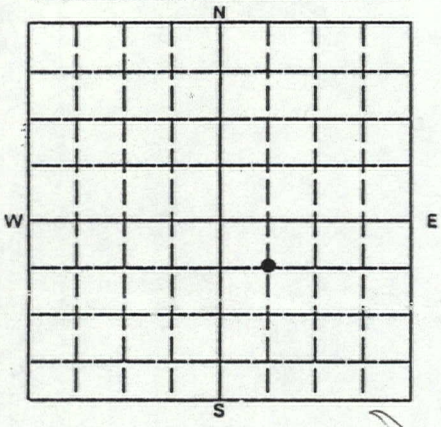
ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE
Murphy Oil USA, Inc.
200 Peach Street
El Dorado, AR 71730

NAME AND ADDRESS OF SURFACE OWNER
Zimmerman, Inc.
P.O. Box 277
Poplar, MT 59255

0023

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MT521PE-0023

SURFACE LOCATION DESCRIPTION
¼ OF NW ¼ OF SE ¼ SECTION 10 TOWNSHIP 28N RANGE 51E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 1980 ft. from (N/S) S Line of quarter section
and 1980 ft. from (E/W) E Line of quarter section

WELL ACTIVITY
☒ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage

TYPE OF PERMIT
☒ Individual
☐ Area
Number of Wells ____

Lease Name East Poplar Unit Well Number 8-D

APPROVED
Date 6/1/90 CEW.

MONTH YEAR	INJECTION PRESSURE AVERAGE PSIG	INJECTION PRESSURE MAXIMUM PSIG	TOTAL VOLUME INJECTED BBL	TOTAL VOLUME INJECTED MCF	TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MINIMUM PSIG	TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MAXIMUM PSIG
1 -89	470	470	134,704	0	0	0
2 -89	470	470	140,493	0	0	0
3 -89	470	470	153,940	0	0	0
4 -89	470	470	144,105	0	0	0
5 -89	470	470	149,930	0	0	0
6 -89	470	470	151,376	0	0	0
7 -89	470	470	154,543	0	0	0
8 -89	470	470	145,558	0	0	0
9 -89	470	470	149,422	0	0	0
10 -89	470	490	158,525	0 5114 a	0	0
11 -89	470	490	152,932	0	0	0
12 -89	470	490	137,352	0 4431 a	0	0

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JAN 22 1990
REGION VIII
DRINKING WATER BRANCH

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED
Raymond Reede District Manager	Raymond Reede	January 12,1990

EPA Form 7520-11 (2-84)

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EPA REGION VIII
DRINKING WATER BRANCH

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

UIC PROGRAM COMPLIANCE FIELD INSPECTION REPORT

COMPANY: Murphy Oil REPRESENTATIVE: Jerry Hagadone
ADDRESS: Box 547, Poplar, Mt. PHONE: 406-768-3612
FIELD/WELL NAME: Poplar East # 8-D
LOCATION: ____/4; SEC. 10; T28N; R51E; COUNTY: Roosevelt STATE Mt

RECORDS INSPECTION

Injection Rate: Max. ____ B/D; Ave. ____ B/D; Pmt.Max. 8400 B/D
Injection Pressure: Ave. ____ psig; Max. ____ psig; Pmt.Max. ? psig
Cummulative Inj. Vol: 227,679 Bbl. Pmt. #: MTS 2023-0023
Comments:

WELLHEAD INSPECTION

General Surface Condition: Good. water temp. being injected is
[photos, (Y)(N)]
very high. (Probably in excess of 150°F.

Injection Rate: 5244 B/D; 2) Meter Type: Halliburtin
Location: (~~at well~~) (at pump)
Injection Press: (at wellhead) 510 psig; (at pump): ____ psig
Gauge Range: 2000 psig; Gauge Range: ____ psig
Annulus Press: 0 psig Other:
Injection Water Source: Produced water Charles Fm.
Water Sample Location/Techniques/Analyses

General/Comments Inspected during MIT.

INSPECTOR(S): Billy B. Lane
DATE: 5/1/90 TIME: 9:15 AM

EPA R8 3560-1B (8-89)

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Pink Copy - Operator Copy

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2405

MECHANICAL INTEGRITY PRESSURE TEST
CASING/TUBING ANNULUS

Company Name: Murphy Oil Date: May 1, 1990
Well Name: #8-D Permit No. MTS 2023-0023
Field Name: Poplar East County: Roosevelt
Well Location: Sec 10 T 28N R 51E
Well Type: SWD ✓ ER ____ 2H ____ Other: ____
Type of Packer: Baker ~~AD-1~~ A-3 Lock set Total Depth: 5685 PBTD
Packer Set at (depth): ~~695~~ 737 FT
Surface Casing Size: 9 5/8" From: 0 FT to 960 FT
Casing Size: 5 1/2" From: 0 FT to 5766 FT
Tubing Size: 2 7/8" Tubing Pressure during Test: 510 psig
Time of Day: 9:30 am/~~pm~~

	Test #1		Test #2	
0 Min:	910	psig		psig
5	910	psig		psig
10	910	psig		psig
15	910	psig		psig
20	910	psig		psig
25	910	psig		psig
30	910	psig		psig
35		psig		psig
40		psig		psig
45		psig		psig
50		psig		psig
55		psig		psig
60		psig		psig

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APPROVED Date 5/14/90

Test Conducted by: ~~Ray Reede~~ Jerry Hagadone
Inspected by: Billy B. Lane
Others Present: Big "M"

EPA R8 3560-1A (8-89)

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C1

MURPHY
OIL USA, INC.

POST OFFICE BOX 547
POPLAR, MONTANA 59255

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EPA REGION VIII
DRINKING WATER BRANCH

December 15, 1989 0023

Mr. Max H. Dodson
Director, Water Management Division
United States Environmental Protection Agency
Region VIII
999 18th Street - Suite 500
Denver, Colorado 80202-2405

RE: UIC Permit #MTS21PE-0023 (2023-)
East Poplar Unit 8-D

Dear Mr. Dodson:

Enclosed are four (4) consecutive quarterly water analyses for the East Poplar Unit 8-D, NW SE Section 10, T28N, R51E, Roosevelt County, Montana.

At this time we request a minor permit modification to reduce the frequency of water analysis to once per year to be submitted in the fourth quarter.

Sincerely,

Raymond Reede

Raymond Reede
District Manager

RR/jh

cc: A. W. Simpson
C.J. Boyter, Montana Operations
well file

SPUR

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ANALYTICAL LABORATORY REPORT

MURPHY OIL CORPORATION
POPLAR, MONTANA

27-FEB-89

EPU 8-D
PRODUCED

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EPA REGION VIII
DRINKING WATER BRANCH

>>> Oil Field Water Analysis <<<

DISSOLVED SOLIDS

Cations		mg/l	meq/l		mg/l
Sodium	Na+	44,752.0	1,945.7	as NaCl	
Calcium	Ca++	1,200.0	60.0	as CaCO3	3,000.0
Magnesium	Mg++	486.0	40.0	as CaCO3	2,000.0
Barium	Ba++			as CaCO3	
Strontium	Sr++			as CaCO3	
Total Cations		46,438.0	2,045.7		

Anions		mg/l	meq/l		mg/l
Chloride	Cl-	71,626.0	2,019.9	as NaCl	118,000.0
Sulfate	SO4=	878.8	18.3	as Na2SO4	1,300.0
Carbonate	CO3=			as CaCO3	
Bicarb.	HCO3-	463.6	7.6	as CaCO3	380.0
Total Anions		72,968.4	2,045.7		

Total Solids 119,406.4

METALS

Total Iron,Fe	2.3	as Fe	2.3
Acid to Phen,CO2	154.0	as CaCO3	350.0

OTHER PROPERTIES

pH	5.8
Specific Gravity	1.1
Turbidity	
Oxygen, as O2 ppm	
Sulfide as H2Sppm	
Temperature F	

Max A. [illegible]
2/21/89

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ANALYTICAL LABORATORY REPORT

MURPHY OIL CORPORATION
POPLAR, MONTANA

27-FEB-89

EPU 8-D
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>>> Scaling Indices <<<

Positive values indicate scaling tendencies

Temperature (Deg. F)	Calcium Carbonate	Calcium Sulfate	Barium Sulfate	Strontium Sulfate
60	-1.39	-56.77	NA	NA
80	-1.19	-57.10	NA	NA
100	-0.95	-57.22	NA	NA
120	-0.67	-56.74	NA	NA
140	-0.34	-55.68	NA	NA
160	+0.01	-54.55	NA	NA
180	+0.42	-53.41	NA	NA
200	+0.87	NA	NA	NA
220	NA	NA	NA	NA
240	NA	NA	NA	NA
260	NA	NA	NA	NA
280	NA	NA	NA	NA
300	NA	NA	NA	NA
320	NA	NA	NA	NA

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DRINKING WATER BRANCH

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ANALYTICAL LABORATORY REPORT

MURPHY OIL CORPORATION
POPLAR, MONTANA

27-FEB-89

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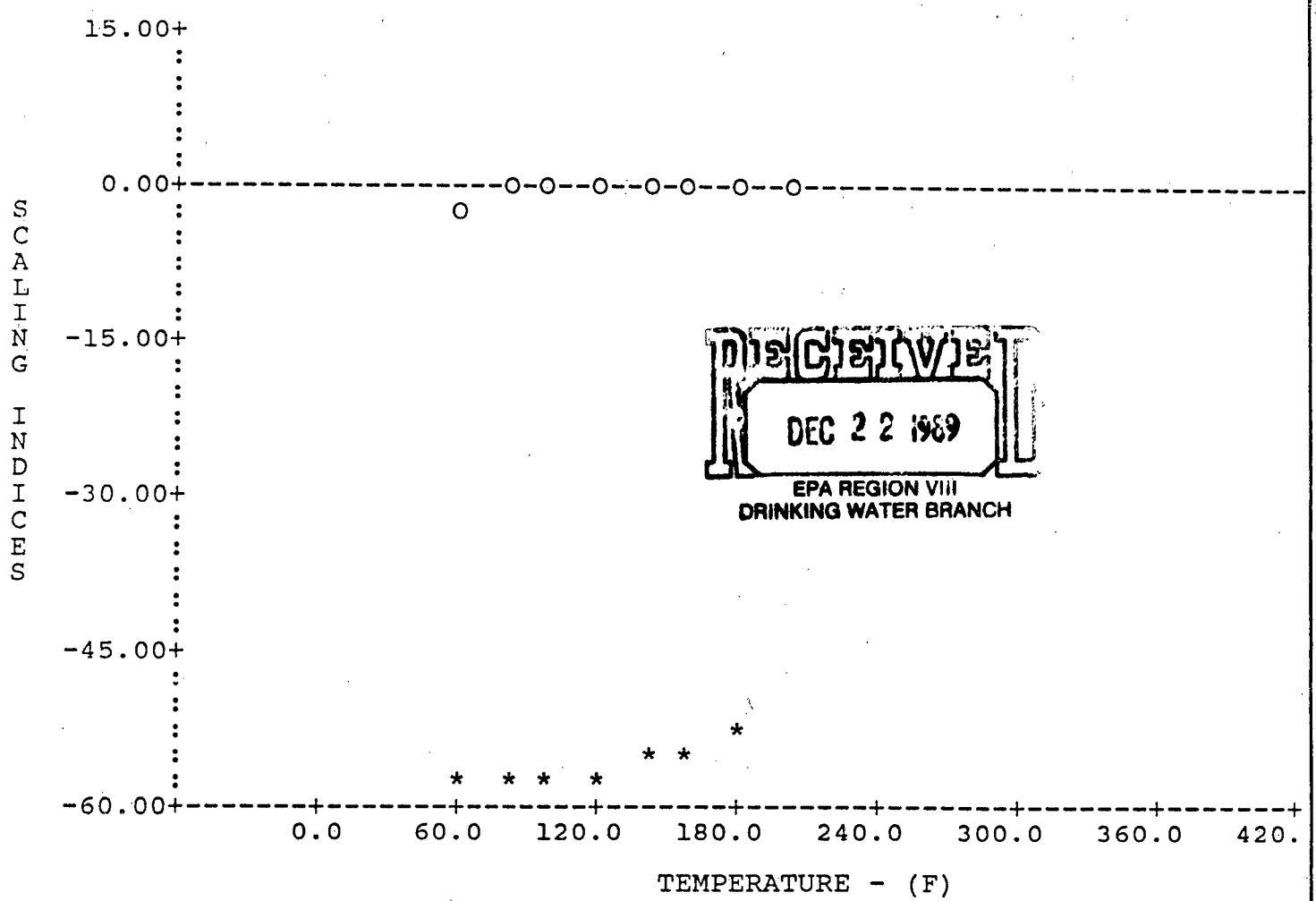
>>> Scaling Indices <<<



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EPA REGION VIII
DRINKING WATER BRANCH

O = CaCO3
* = CaSO4
# = BaSO4
X = SrSO4

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ANALYTICAL LABORATORY REPORT

MURPHY OIL CORPORATION
POPLAR, MONTANA

21-JUN-89

EPU #8-D
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EPA REGION VIII
DRINKING WATER BRANCH

>>> Oil Field Water Analysis <<<

DISSOLVED SOLIDS

Cations		mg/l	meq/l		mg/l
Sodium	Na+	45,105.7	1,961.1	as NaCl	
Calcium	Ca++	1,040.0	52.0	as CaCO3	2,600.0
Magnesium	Mg++	170.1	14.0	as CaCO3	700.0
Barium	Ba++			as CaCO3	
Strontium	Sr++			as CaCO3	
Total Cations		46,315.8	2,027.1		

Anions		mg/l	meq/l		mg/l
Chloride	Cl-	71,019.0	2,002.7	as NaCl	117,000.0
Sulfate	SO4=	845.0	17.6	as Na2SO4	1,250.0
Carbonate	CO3=			as CaCO3	
Bicarb.	HCO3-	414.8	6.8	as CaCO3	340.0
Total Anions		72,278.8	2,027.1		

Total Solids 118,594.6

METALS

Total Iron,Fe	2.0	as Fe	2.0
Acid to Phen,CO2	114.4	as CaCO3	260.0

OTHER PROPERTIES

pH	5.8
Specific Gravity	1.1
Turbidity	
Oxygen, as O2 ppm	
Sulfide as H2Sppm	
Temperature F	

Max Q. Jr
6/21/89

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ANALYTICAL LABORATORY REPORT

MURPHY OIL CORPORATION
POPLAR, MONTANA

21-JUN-89

EPU #8-D
PRODUCED

>>> Scaling Indices <<<

Positive values indicate scaling tendencies

Temperature (Deg. F)	Calcium Carbonate	Calcium Sulfate	Barium Sulfate	Strontium Sulfate
60	-1.49	-59.44	NA	NA
80	-1.29	-59.76	NA	NA
100	-1.05	-59.88	NA	NA
120	-0.77	-59.44	NA	NA
140	-0.45	-58.37	NA	NA
160	-0.08	-57.22	NA	NA
180	+0.32	-56.06	NA	NA
200	+0.77	NA	NA	NA
220	NA	NA	NA	NA
240	NA	NA	NA	NA
260	NA	NA	NA	NA
280	NA	NA	NA	NA
300	NA	NA	NA	NA
320	NA	NA	NA	NA

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DRINKING WATER BRANCH

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ANALYTICAL LABORATORY REPORT

MURPHY OIL CORPORATION
POPLAR, MONTANA

21-JUN-89

EPU #8-D
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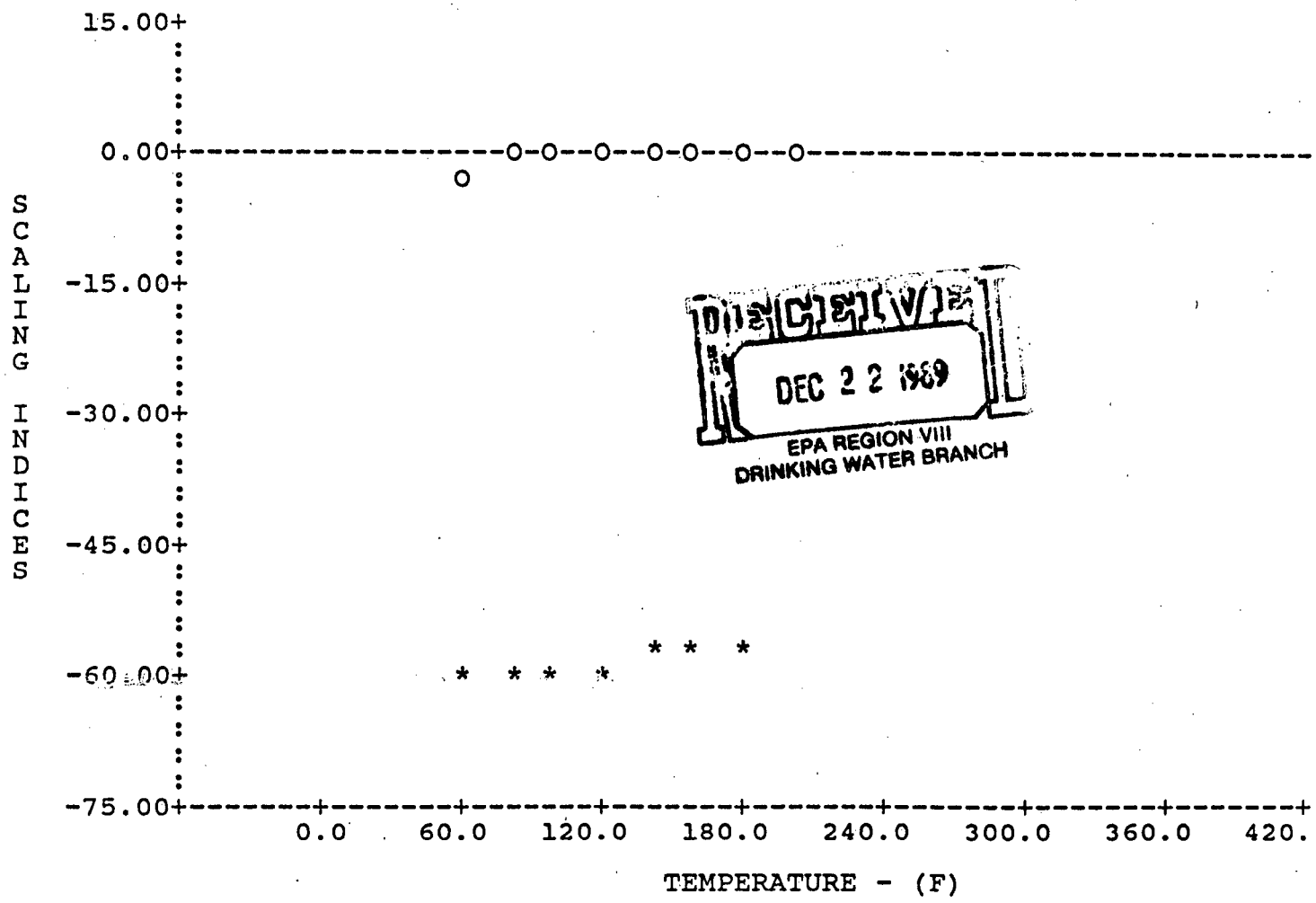
>>> Scaling Indices <<<



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DRINKING WATER BRANCH

O = CaCO3
* = CaSO4
# = BaSO4
X = SrSO4

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ANALYTICAL LABORATORY REPORT

MURPHY OIL CORPORATION
POPLAR, MONTANA

22-SEP-89

EPU 8-D
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EPA REGION VIII
DRINKING WATER BRANCH

>>> Oil Field Water Analysis <<<

DISSOLVED SOLIDS

Cations		mg/l	meq/l		mg/l
Sodium	Na+	42,292.0	1,838.8	as NaCl	
Calcium	Ca++	920.0	46.0	as CaCO3	2,300.0
Magnesium	Mg++	243.0	20.0	as CaCO3	1,000.0
Barium	Ba++			as CaCO3	
Strontium	Sr++			as CaCO3	
Total Cations		43,455.0	1,904.8		

Anions		mg/l	meq/l		mg/l
Chloride	Cl-	66,770.0	1,882.9	as NaCl	110,000.0
Sulfate	SO4=	743.6	15.5	as Na2SO4	1,100.0
Carbonate	CO3=			as CaCO3	
Bicarb.	HCO3-	390.4	6.4	as CaCO3	320.0
Total Anions		67,904.0	1,904.8		

Total Solids 111,359.1

METALS

Total Iron,Fe	2.5	as Fe	2.5
Acid to Phen,CO2	105.6	as CaCO3	240.0

OTHER PROPERTIES

pH	5.8
Specific Gravity	1.1
Turbidity	
Oxygen, as O2 ppm	
Sulfide as H2Sppm	
Temperature F	

Mary A. Jen
9-22-89

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ANALYTICAL LABORATORY REPORT

MURPHY OIL CORPORATION
POPLAR, MONTANA

22-SEP-89

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>>> Scaling Indices <<<

Positive values indicate scaling tendencies

Temperature (Deg. F)	Calcium Carbonate	Calcium Sulfate	Barium Sulfate	Strontium Sulfate
60	-1.56	-61.25	NA	NA
80	-1.36	-61.56	NA	NA
100	-1.12	-61.70	NA	NA
120	-0.84	-61.32	NA	NA
140	-0.52	-60.25	NA	NA
160	-0.15	-59.09	NA	NA
180	+0.25	-57.92	NA	NA
200	+0.71	NA	NA	NA
220	NA	NA	NA	NA
240	NA	NA	NA	NA
260	NA	NA	NA	NA
280	NA	NA	NA	NA
300	NA	NA	NA	NA
320	NA	NA	NA	NA

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DRINKING WATER BRANCH

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MURPHY OIL CORPORATION
POPLAR, MONTANA

22-SEP-89

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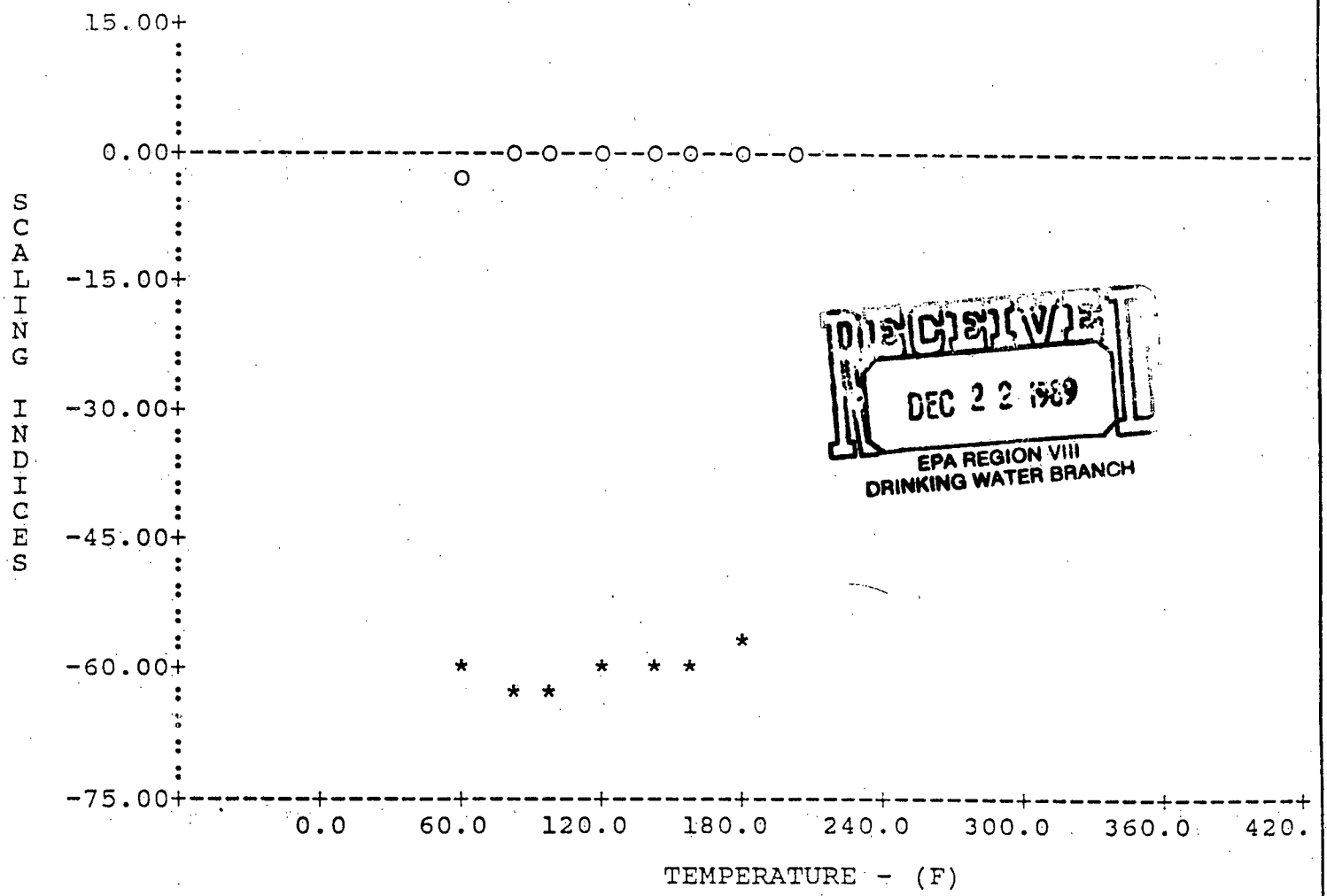
>>> Scaling Indices <<<



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DRINKING WATER BRANCH

O = $CaCO_3$
* = $CaSO_4$
# = $BaSO_4$
X = $SrSO_4$

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ANALYTICAL LABORATORY REPORT

MURPHY OIL CORPORATION
POPLAR, MONTANA

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EPA REGION VIII
DRINKING WATER BRANCH

>>> Oil Field Water Analysis <<<

DISSOLVED SOLIDS

Cations		mg/l	meq/l		mg/l
Sodium	Na+	43,218.1	1,879.0	as NaCl	
Calcium	Ca++	1,000.0	50.0	as CaCO3	2,500.0
Magnesium	Mg++	364.5	30.0	as CaCO3	1,500.0
Barium	Ba++			as CaCO3	
Strontium	Sr++			as CaCO3	
Total Cations		44,582.6	1,959.0		

Anions		mg/l	meq/l		mg/l
Chloride	Cl-	68,591.0	1,934.3	as NaCl	113,000.0
Sulfate	SO4=	845.0	17.6	as Na2SO4	1,250.0
Carbonate	CO3=			as CaCO3	
Bicarb.	HCO3-	439.2	7.2	as CaCO3	360.0
Total Anions		69,875.2	1,959.0		

Total Solids 114,457.8

METALS

Total Iron,Fe	2.1	as Fe	2.1
Acid to Phen,CO2	149.6	as CaCO3	340.0

OTHER PROPERTIES

pH	5.8
Specific Gravity	1.1
Turbidity	
Oxygen, as O2 ppm	
Sulfide as H2Sppm	
Temperature F	

Max A.
12-11-89

Month Of 3-1, 1984

SALT WATER STATION NO. 8-D

oil press	DATE	HR. METER	NO. 1 PUMP	oil press HR. METER	~~oil press~~ hrs NO. 2 PUMP	PRESSURE	PIT LEVEL
42	2	11.9		22	23.1	680	OK
42	3	10.2		20	22.4	680	OK
off	4	10.3		20	24.0	680	OK
off	5	10.6		18	24.0	680	OK
44	6	10.7		28	23.3	680	OK
off	7	10.2		25	24.0	680	OK
off	8	13.7		20	21.8	680	OK
45	9	11.0		20	23.8	680	OK
off	10	9.8		18	23.1	680	OK
off	11	11.0		20	23.4	680	OK
44	12	10.0		20	24.0	680	OK
44	13	12.7		20	21.6	680	OK
off	14	16.3		off	17.5	680	OK
off	15	17.0		20	18.7	680	OK
43	16	14.5		18	19.5	680	OK
off	17	11.1		20	23.5	680	OK
45	18	9.2		20	23.9	680	OK
45	19	12.6		20.8	20.8	680	OK
43	20	13.8		20.8	13.8	680	OK
42	21	13.		20 PSI	4.2	680	OK
42	22	14.9		off	3.3	680	OK
42	23	16.5		off	1.3	680	OK
42	24	16.5		off	0.0	680	OK
42	25	17.9		off	0.0	680	OK
off	26	16.4		off	1.4	680	OK
off	27	11.3		off	7.2	680	OK
off	28	14.1		off	3.6	680	OK
39	29	14.2		off	3.4	680	OK
off	30	13.2		off	4.2	680	OK
42	31	15.5		off	1.7	680	OK
42	1	16.7		off	0.5	680	OK

Month Of 4, 1, 1986

SALT WATER STATION NO. S.D. S.W.S

oil press	New pump		old pump	oil press		
DATE	HR. METER	NO. 1 PUMP	HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
42 2	18.2		1.1	off	680	ok
off 3	15.9		1.1	off	680	ok
42 4	17.1		2.5	off	680	ok
off 5	19.4		.1	off	680	ok
off 6	18.4		1.0	off	680	ok
42 7	14.6		0.1	off	680	ok
40 8	23.5		0.6	off	680	ok
off 9	6.2		8.3	off 8	680	ok
42 10	23.3		2.6	off	680	ok
42 11	18.4		8.4	off	680	ok
42 12	20.0		5.8	off	680	ok
42 13	24.2		1.6	off	680	ok
42 14	23.6		2.4	off	680	ok
40 15	23.3		1.5	off	680	ok
40 16	23.9		0.7	off	680	ok
38 17	22.8		1.5	off	680	ok
38 18	24.1		0.4	off	680	ok
38 19	24.5		0.2	off	680	ok
38 20	23.3		1.1	off	680	ok
38 21	23.4		0.5	off	680	ok
38 22	23.3		0	off	680	ok
42 23	23.9		0	off	680	ok
38 24	23.3		1	off	680	ok
40 25	24.0		0	off	680	ok
39 26	24.9		0	off	680	ok
light rings → 38 27	23.1		0	off	680	ok
off 28	1.8		0	off	0	0
up off 29	0		0		0	0
off 30	9.3		0	off	680	ok
42 31	14.9		0	off	680	ok
1						

Month Of 5/1, 1986

SALT WATER STATION NO. 8.D. S.W.S

oil press	DATE	New pump HR. METER	NO. 1 PUMP	old pump HR. METER	NO. 2 PUMP	oil press PRESSURE	PIT LEVEL
44	2	15.8		0	0	680	ok
44	3	17.0		0	0	680	ok
44	4	17.2		0	0	680	ok
42	5	16.7		0	0	680	OK
44	6	17.4		0	0	680	OK
44	7	16.6		0	0	680	ok
40	8	17.1		0	0	680	OK
40	9	24.2		0	0	680	OK
35	10	24.2		0	0	680	ok
40	11	24.2		0	0	680	ok
42	12	22.9		0	0	680	ok
42	13	24.0		0	0	680	ok
42	14	24.0		0	0	680	ok
42	15	23.9		0	0	680	ok
42	16	24.0		0	0	680	ok
38	17	24.9		0	0	680	ok
40	18	24.2		0	0	680	ok
40	19	22.9		0	0	680	ok
42	20	19.8		0	0	680	ok
42	21	19.0		0	0	680	ok
42	22	17.9		0	0	680	ok
42	23	19.3		0	0	680	ok
38	24	20.2		0	0	680	ok
42	25	19.3		0	0	680	ok
42	26	18.6		0	0	680	ok
42	27	19.4		0	0	680	ok
42	28	19.4		0	0	680	ok
42	29	19.1		0	0	680	ok
42	30	19.4		0	0	680	ok
42	31	20.1		0	0	680	ok
42	1	19.7		0	0	680	ok

Month Of 6 - 1, 1986

SALT WATER STATION NO. 8-D SWS

oil press	DATE	new pump HR. METER	NO. 1 PUMP	old pump HR. METER	NO. 2 PUMP	oil press. PRESSURE	PIT LEVEL
40	2	18.4		0	0	680	ok
40	3	19.4		0	0	680	ok
42	4	18.1		0	0	680	ok
off	5	~~19~~ 22.2		19.5	25	680	ok
	6	off		20.7	25	680	ok
off	7	off		22.6	22	680	ok
off	8	off		21.0	22	680	ok
	9	off		20.1	24	680	ok
	10	off		20.9	22	680	ok
	11	off		22.1	20	680	ok
	12	off		20.8	25	680	ok
	13	off		17.0	25	680	ok
	14	off		18.9	27	680	ok
	15	off		14.7	30	680	ok
	16	off		17.9	off	680	ok
	17	off		20.8	22	680	ok
	18	off		22.1	22	680	ok
	19	off		21.2	24	680	ok
	20	off		21.9	22	680	ok
	21	off		22.2	22	680	ok
	22	off		21.7	27	680	ok
	23	off		21.0	22	680	ok
	24	off		20.7	22	680	ok
	25	off		20.0	20	680	ok
	26	off		22.1	18	680	ok
	27	off		21.0	18	680	ok
	28	off		21.9	22	680	ok
	29	off		22.4	20	680	ok
	30	off		21.0	20	680	ok
	31						
	1	off		21.2	20	680	ok

Month Of 7-1-86, 19____

SALT WATER STATION NO. 8-D

Oil Psi	DATE	old ~~No~~ Pump HR. METER	NO. 1 PUMP	~~No~~ Pump HR. METER	Oil Psi NO. 2 PUMP	650 PRESSURE	PIT LEVEL
20	2	22.4		0		680	ok
20	3	21.5		0		680	ok
20	4	20.0		0		680	ok
27	5	24.1		0		680	ok
22	6	22.3		0		680	ok
20	7	20.9		0		680	ok
44	8	19.4		0		680	ok
20	9	20.8		0		680	ok
20	10	20.7		0		680	ok
20	11	21.7		0		680	ok
23	12	21.9		0		680	ok
22	13	22.1		0		680	ok
20	14	21.2		0		680	ok
44	15	20.3		0		680	ok
20	16	22.0		0		680	ok
20	17	17.4		0		680	ok
20	18	22.1		0		680	ok
20	19	23.0		0		680	ok
22	20	21.3		0		680	ok
20	21	21.4		0		680	ok
20	22	21.7		0		680	ok
20	23	21.5		0		680	ok
20	24	22.0		0		680	ok
pump pit 18	25	23.6		0		680	ok
15	26	24.3		0		680	ok
17	27	24.0		0		680	ok
44	28	10.0		0		680	ok
	29	0		17.4		680	ok
	30	0		20.0	42	680	ok
	31	0	pumping pit	22.2	42	680	ok
	1	0	1 2	21.5	44	680	ok

Month Of 8, 1, 1986

SALT WATER STATION NO. 8 D

oil press	DATE	New pump HR. METER	NO. 1 PUMP	HR. METER	old pump NO. 2 PUMP	PRESSURE	PIT LEVEL
42	2	22.4			0	680	ok
41	3	19.9			0	680	ok
42	4	19.2			0	680	ok
40	5	19.3			0	680	ok
42	6	19.3			0	680	ok
42	7	19.2			0	680	ok
42	8	19.2			0	680	ok
42	9	20.0			0	680	ok
42	10	19.0			0	680	ok
42	11	18.6			0	680	ok
42	12	19.1			0	680	ok
41	13	19.6			0	680	ok
42	14	18.9			0	680	ok
42	15	19.4			0	680	ok
42	16	19.0			0	680	ok
42	17	19.0			0	680	ok
down	18	18.5			0	680	ok
40	19	18.5			0	680	ok
down	20	19.8			0	680	ok
42	21	19.1			0	680	ok
42	22	19.0			0	680	ok
42	23	20.3			0	680	ok
42	24	19.5			0	680	ok
42	25	18.6			0	680	ok
42	26	19.1			0	680	ok
down	27	20.0			0	680	ok
42	28	19.1			0	680	ok
42	29	19.3			0	680	ok
40	30	18.4			0	680	ok
39	31	18.9			0	680	ok
42	1	19.4			0	680	ok

Month Of SEPT, 1986

SALT WATER STATION NO. 8-D

oil press	DATE	new pump HR. METER	NO. 1 PUMP	old pump HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
42	2	19.1		0		680	OK
42	3	19.3		0		680	OK
42	4	19.6		0		680	OK
off	5	19.0		0		680	OK
off	6	15.6		0		680	OK
42	7	19.3		0		680	OK
44	8	20.5		0		680	OK
42	9	21.0		0		680	OK
42	10	20.4		0		680	OK
42	11	21.1		0		680	OK
42	12	20.2		0		680	OK
off	13	19.3		0		680	OK
40	14	20.8		0		680	OK
42	15	19.4		0		680	OK
42	16	19.0		0		680	OK
off	17	19.2		0		680	OK
off	18	19.5		0		680	OK
off	19						
38	20	19.7		0		680	OK
40	21	19.2		0		680	OK
42	22	19.3		0		680	OK
42	23	19.0		0		680	OK
off	24	16.0		0		680	OK
off	25	15.8		0		680	OK
off	26	16.1		0		680	OK
44	27	15.4		0		680	OK
off	28	16.1		0		680	OK
44	29	16.9		0		680	OK
42	30	21.4		0		680	OK
42	31	21.4		0		680	OK
	1						

Month Of 10, 1, 1986

SALT WATER STATION NO. 8.D. SWS

oil press new pump old pump 680 ok

	DATE	HR. METER	NO. 1 PUMP	HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
43	2	~~19~~ 21.9			~~[illegible]~~ 0	680	OK
40	3	21.4			0	680	OK
40	4	20.0			0	680	OK
40	5	20.5			0	680	OK
off	6	19.3			0	680	OK
40	7	18.4			0	680	OK
42	8	20.6			0	680	OK
42	9	20.4			0	680	OK
44	10	18.2			0	680	OK
42	11	21.2			0	680	OK
40	12	20.6			0	680	OK
off	13	6.6			0	680	OK
mping pit 42	14	16.7			0	680	OK
Pumping pit 42	15	24.1			0	680	OK
umping pit 42	16	23.8			0	680	OK
42	17	24.1			0	680	OK
ing pit 41	18	20.9			0	680	OK
42	19	20.4			0	680	OK
42	20	20.6			0	680	OK
off	21	19.6			0	680	OK
44	22	20.0			0	680	OK
44	23	20.3			0	680	OK
off	24	16.8			0	680	OK
44	25	19.2			0	680	OK
38	26	20.3			0	680	OK
44	27	18.4			0	680	OK
44	28	18.2			0	680	OK
44	29	20.3			0	680	OK
44	30	20.4			0	680	OK
off	31	18.7			0	680	OK
40	1	20.7			0	680	OK

Month Of 11-1, 19 86

SALT WATER STATION NO. 8-D SWS

oil press	DATE	HR. METER (new pump)	NO. 1 PUMP	HR. METER	NO. 2 PUMP (old pump)	PRESSURE 680	PIT LEVEL OK
39	2	20.4			0	680	OK
off	3	20.6			0	680	OK
44	4	20.8			0	680	OK
40	5	18.1			0	680	OK
42	6	21.3			0	680	OK
42	7	20.5			0	680	OK
off	8	20.7			0	680	OK
42	9	20.0			0	680	OK
42	10	19.6			0	680	OK
42	11	20.4			0	680	OK
42	12	20.4			0	680	OK
42	13	20.3			0	680	OK
40	14	20.4			0	680	OK
42	15	21.0			0	680	OK
40	16	20.6			0	680	OK
44	17	19.8			0	680	OK
42	18	20.2			0	680	OK
42	19	20.3			0	680	OK
40	20	20.2			0	680	OK
40	21	20.4			0	680	OK
40	22	21.1			0	680	OK
39	23	20.6			0	680	OK
38	24	19.7			0	680	OK
42	25	19.6			0	680	OK
42	26	20.4			0	680	OK
40	27	20.3			0	680	OK
40	28	20.5			0	680	OK
41	29	21.2			0	680	OK
40	30	20.6			0	680	OK
42	31	19.8					
	1						

Month Of 12/1, 1986

SALT WATER STATION NO. 8.D. SW.S

oil press

	DATE	HR. METER (new pump)	NO. 1 PUMP	HR. METER	NO. 2 PUMP (old pump)	PRESSURE (680)	PIT LEVEL (OK)
40	2	19.3			0	680	OK
42	3	20.4			0	680	OK
42	4	20.6			0	680	OK
42	5	19.4			0	680	OK
42	6	21.1			0	680	OK
0	7	21.1			0	680	OK
40	8	20.1			0	680	OK
42	9	20.2			0	680	OK
42	10	20.2			0	680	OK
40	11	20.4			0	680	OK
	12	19.4			0	680	OK
42	13	20.6			0	680	OK
42	14	19.5			0	680	OK
42	15	17.4			0	680	OK
42	16	21.5			0	680	OK
40	17	20.4			0	680	OK
42	18	20.8			0	680	OK
42	19	20.3			0	680	OK
40	20	20.6			0	680	OK
42	21	20.1			0	680	OK
42	22	20.6			0	680	OK
42	23	19.9			0	680	OK
40	24	21.6			0	680	OK
38	25	20.7			0	680	OK
40	26	20.2			0	680	OK
40	27	20.5			0	680	OK
40	28	20.6			0	680	OK
40	29	19.5			0	680	OK
42	30	18.7			0	680	OK
42	31	20.4			0	680	OK
40	1	20.7			0	680	OK

Month Of 1/1, 1988

SALT WATER STATION NO. 8.D.&W.S.

oil press 23.6

	DATE	New pump HR. METER	NO. 1 PUMP	old pump HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
36	2	22.4		0		540	ok
36	3	19.0		0		540	OK
off	4	19.1		0		540	OK
38	5	18.9		0		540	ok
38	6	19.0		0		540	ok
36	7	19.1		0		540	ok
38	8	19.8		0		540	ok
38	9	19.2		0		540	ok
37	10	20.1		0		540	OK
38	11	20.8		0		540	OK
36	12	21.2		0		540	ok
38	13	20.3		0		540	ok
36	14	20.7		0		540	ok
36	15	20.4		0		540	ok
off	16	19.3		0		540	ok
36	17	22.3		0		540	ok
36	18	21.5		0		540	OK
36	19	20.6		0		540	ok
36	20	21.0		0		540	ok
36	21	20.8		0		540	ok
36	22	20.4		0		540	ok
35	23	21.3		0		540	ok
35	24	21.7		0		540	OK
35	25	20.5		0		540	OK
35	26	21.3		0		540	ok
36	27	20.5		0		540	ok
35	28	21.2		0		540	ok
35	29	21.2		0		540	ok
36	30	21.0		0		540	ok
38	31	20.6		0		540	ok
off	1	18.3		0		540	ok

Month Of February, 1988

SALT WATER STATION NO. 8 D SWS

oil press	DATE	New Pump HR. METER	NO. 1 PUMP	Old Pump HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
38	2	17.8		0		540	ok
36	3	20.7		0		540	ok
38	4	20.3		0		540	ok
38	5	20.9		0		540	ok
38	6	21.7		0		540	ok
38	7	20.8		0		540	OK
36	8	21.4		0		540	OK
40	9	20.6		0		540	ok
38	10	20.9		0		540	ok
38	11	21.0		0		540	ok
36	12	20.8		0		540	ok
35	13	21.3		0		540	ok
35	14	20.2		0		540	OK
35	15	20.2		0		540	OK
36	16	16.4		0		540	ok
35	17	20.9		0		540	ok
35	18	19.1		0		540	ok
36	19	19.3		0		540	ok
36	20	19.5		0		540	ok
35	21	19.6		0		540	OK
35	22	19.3		0		540	OK
38	23	19.5		0		540	ok
38	24	20.3		0		540	ok
36	25	~~[illegible]~~ 19.6		0		540	ok
36	26	20.3		0		540	ok
35	27	19.5		0		540	ok
35	28	19.5		0		540	OK
35	29	20.3		0		540	OK
35	30	19.3		0		540	ok
	31						
	1						

Month Of 3, 1, 1988

SALT WATER STATION NO. 8. D. S.W.S

oil press	DATE	New pump HR. METER	NO. 1 PUMP	old pump HR. METER	oil press NO. 2 PUMP	PRESSURE	PIT LEVEL
34	2	20.3		0		540	ok
38	3	19.5		0		540	ok
32	4	19.3		1.7	38	540	ok
	5	off		21.6	35	540	ok
	6	off		21.1	35	540	OK
	7	off		20.8	35	540	OK
	8	off		20.3	35	540	ok
	9	off		21.1	35	540	ok
	10	off		24.0	35	540	ok
	11	off		24.0	35	540	ok
	12	off		23.7	35	540	ok
	13	off		22.8	35	540	OK
	14	off		24.6	35	540	OK
	15	off		23.2	36	540	ok
	16	off		23.9	35	540	ok
	17	off		23.2	35	540	ok
	18	off		23.1	36	540	ok
	19	off		20.8	36	540	ok
	20	off		22.3	36	540	OK
	21	off		21.3	36	540	OK
	22	off		23.1	35	540	ok
	23	off		23.1	35	540	ok
	24	off		23.6	35	540	ok
	25	off		23.2	32	540	ok
	26	off		21.5	32	540	ok
	27	off		20.8	32	540	OK
	28	off		19.5	36	540	ok
	29	off		17.8	36	540	ok
	30	off		20.3	36	540	ok
	31	off		22.0	36	540	ok
	1	off		19.7	36	540	ok

Month Of 4 1, 1988

SALT WATER STATION NO. 80 D SWS

DATE	HR. METER (Wat)	NO. 1 PUMP	HR. METER (triplex)	NO. 2 PUMP (oil press)	PRESSURE	PIT LEVEL
2	off		19.9	38	480	ok
3	off		19.0	38	480	OK
4	OFF		17.3	38	480	ok
5	OFF		15.3	30	480	OK
6	OFF	STAND BY ↓	16.2	30	480	OK
7	18.3	AUTO →	3.7	30	480	OK
8	22.7		STAND BY		480	OK
9	24.3				480	OK
10	22.6				480	OK
11	23.2				480	OK
12	22.8	STAND BY →		~~38~~	480	OK
13	22.9				480	OK
14	22.5				480	OK
15	23.8	STAND BY			480	OK
16	21.7				480	OK
17	22.0				480	OK
18	24.6				480	OK
19	22.8		off	0	480	ok
20	24.0		off	0	480	ok
21	23.8		off	0	480	ok
22	25.1		off	0	480	ok
23	22.9		off	0	480	ok
24	23.1		OFF	0	480	OK
25	25.2		OFF	0	480	OK
26	22.7		off	0	480	ok
27	24.0		off	0	480	ok
28	24.0		off	0	480	ok
29	24.0		1.2	0	480	ok
30	24.0		0	0	480	ok
31						
1	24.2		0	0	480	OK

Month Of May, 1988

SALT WATER STATION NO. 80 D SWS

National triplex oil press.

DATE	HR. METER	NO. 1 PUMP	HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
2	24.0		0	OFF	480	OK
3	22.4		0	off	480	OK
4	22.9		0	off	480	OK
5	22.5		0	off	480	OK
6	22.5		0	off	480	OK
7	23.1		0	off	480	OK
8	24.4		0	OFF	480	OK
9	21.5		0	OFF	480	OK
10	23.1		0	off	480	OK
11	23.7		0	off	480	OK
12	23.4		0	off	480	OK
13	23.9		0	off	480	OK
14	24.1		0	off	480	OK
15	24.1		0	off	480	OK
16	23.0		0	off	480	OK
17	24.0		1.1	off	480	OK
18	23.6		0	off	480	OK
19	22.4		1.1	off	480	OK
20	24.0		0	off	480	OK
21	24.6		1.2	off	480	OK
22	22.1		0	OFF	480	OK
23	23.9		0	OFF	480	OK
24	21.2		0	off	480	OK
25	20.8		0	off	480	OK
26	21.0		0	off	480	OK
27	21.1		0	off	480	OK
28	21.2		0	off	480	OK
29	21.3		0	OFF	480	OK
30	18.9		0	OFF	480	OK
31	19.1		0	off	480	OK
1	18.9		0	off	480	OK

Month Of 6, 1, 1988

SALT WATER STATION NO. 80 A S.W.S

DATE	Nat HR. METER	NO. 1 PUMP	triplex HR. METER	NO. 2 PUMP	oil press PRESSURE	PIT LEVEL
2	17.9		0	0	480	ok
3	18.7		0	0	480	ok
4	19.2		0	0	480	ok
5	19.1		0	0	480	ok
6	17.9		0	0	480	ok
7	18.5		0	0	480	ok
8	19.1		0	0	480	ok
9	18.2		0	0	480	ok
10	18.1		0	0	480	ok
11	18.9		0	0	480	ok
12	17.7		0	0	480	ok
13	19.1		0	0	480	ok
14	18.0		0	0	480	ok
15	18.9		0	0	480	ok
16	17.3		0	0	480	ok
17	19.0		0	0	480	ok
18	18.3		0	0	480	ok
19	18.8		0	0	480	ok
20	18.5		0	0	480	ok
21	15.9		0	0	480	ok
22	17.6		0	0	480	ok
23	15.7		0	0	480	ok
24	14.7		0.5	off	480	ok
25	19.4		0	off	480	ok
26	18.7		0	off	480	ok
27	18.7		0	off	480	ok
28	17.8		0	off	480	ok
29	18.4		0	off	480	ok
30	9.8		0	off	480	ok
31	8.4		0	off	480	ok
1						

clock don't work

Month Of 7,1, 1988

SALT WATER STATION NO. 80-D.SWS

clock don't work

DATE	HR. METER (Not)	NO. 1 PUMP	HR. METER (triplex)	NO. 2 PUMP (alpress)	PRESSURE	PIT LEVEL
2	1.9		0	0	480	OK
3	19.2		0	0	480	OK
4	17.9		0	0	480	OK
5	18.0		0	0	480	OK
6	17.5		0	0	480	OK
7	5.1		0	0	480	OK
8	4.2		0	0	480	OK
9	1.0		9.2	40	480	OK
10	0.0		9.8	28	480	OK
11			11.7	OFF	480	OK
12			9.9		480	OK
13			11.3		480	OK
14	14.5		1.2		480	OK
15	15.4		—		480	OK
16	15.7		—		480	OK
17	16.0		0	OFF	480	OK
18	15.5		0	OFF	480	OK
19	16.0		—		480	OK
20	18.6		—		480	OK
21	16.7		—		480	OK
22	13.6		—		480	OK
23	16.7		—		480	OK
24	16.3		—		480	OK
25	15.6		—		480	OK
26	15.6		—		480	OK
27	16.0		—		480	OK
28	16.4		—		480	OK
29	15.6		—		480	OK
30	16.5		—		480	OK
31	14.5		—		480	OK
1	16.3		—		480	OK

Month Of August, 19 78

SALT WATER STATION NO. 80D - SWS

Oil Press

DATE	New Pump HR. METER	NO. 1 PUMP	Old Pump HR. METER	NO. 2 PUMP	Oil Press PRESSURE	PIT LEVEL
2	17.9		0		480	ok
3	15.4		0		480	ok
4	16.8		0		480	ok
5	16.4		0		480	ok
6	16.3		0		480	ok
7	16.3		0		480	OK
8	15.6		0		480	OK
9	15.3		0		480	ok
10	15.8		0		480	ok
11	16.4		0		480	ok
12	15.6		0		480	ok
13	16.5		0		480	ok
14	16.6		0		480	OK
15	17.6		0		480	OK
16	15.4		0		480	ok
17	20.1		12.5	40	480	ok
18	5.3		20.0	off	480	ok
19	21.7		1.5	off	480	ok
20	24.0		0	off	480	ok
21	17.[illegible]		0	off	480	ok
22	16.3		0	off	480	ok
23	13.6		0	off	480	ok
24	15.3		0	off	480	ok
25	15.4		0	off	480	ok
26	15.5		0	off	480	ok
27	15.6		0	off	480	ok
28	15.5		0	off	480	OK
29	15.5		0	off	480	OK
30	15.4		0	off	480	ok
31	16.0		0	off	480	ok
1	15.4		0	off	480	ok

Month Of 9, 1, 1988

SALT WATER STATION NO. 80.D.

	Nat		triplex	oil press	480	ok
DATE	HR. METER	NO. 1 PUMP	HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
2	15.5		0	off	480	ok
3	15.5		0	off	480	ok
4	15.4		0	off	480	ok
5	15.8		0	off	480	ok
6	13.6		0	off	480	ok
7	15.3		0	off	480	ok
8	16.0		0	off	480	ok
9	15.7		0	off	480	ok
10	13.8		0	off	480	ok
11	13.6		0	off	480	ok
12	13.8		0	off	480	ok
13	13.6		0	off	480	ok
14	14.6		0	off	480	ok
15	14.3		0	off	480	ok
16	15.1		0	off	480	ok
off 17	0.7		9.8	off	480	ok
off 18	0		10.7	off	480	ok
off 19	0		9.6	off	480	ok
off 20	0		10.8	off	480	ok
21	0		9.8	40	480	ok
22	14.2		0.9	off	480	ok
23	14.6		0	off	480	ok
24	14.8		0	off	480	ok
25	15.1		0	off	480	OK
26			0	off	480	ok
27	14.7		0	off	480	ok
28	15.4		0	off	480	ok
29	15.4		0	off	480	ok
30	14.7		0	off	480	ok
31	14.7		0	off	480	ok
1						

Month Of 10/1, 1988

SALT WATER STATION NO. 80.D SWS

DATE	Nat HR. METER	NO. 1 PUMP	Triplex HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL (oil press)
2	14.5		0		480	ok
3	12.6		0		480	ok
4	11.6		0		480	ok
5	15.1		0		480	ok
6	15.7		0		480	ok
7	14.4		0		480	OK
8	14.9		0		480	OK
9	15.4		0		480	OK
10	15.5		0		480	OK
11	15.6		0		480	ok
12	15.4		0		480	ok
13	14.1		0		480	ok
14	13.9		0		480	ok
15	13.8		0		480	ok
16	13.7		0		480	OK
17	13.2		0		480	OK
18	13.7		0		480	ok
19	14.0		0		480	ok
20	14.1		0		480	ok
21	13.9		0		480	ok
22	13.8		0		480	ok
23	14.4		0		480	ok
24	14.5		0		480	OK
25	13.3		0		480	ok
26	14.3		0		480	ok
27	14.6		0		480	ok
28	13.8		0		480	ok
29	13.7		0		480	OK
30	14.6		0		480	OK
31	14.6		0		480	OK
1	19.2		15.7		480	ok

Month Of 11, 1, 1988

SALT WATER STATION NO. 80.0 S.W.S

DATE	HR. METER (Not)	NO. 1 PUMP	HR. METER (Tripled)	NO. 2 PUMP	PRESSURE (480)	PIT LEVEL
2	17.1		3.8	off	480	ok
3	14.2		0	off	480	ok
4	14.1		0	off	480	ok
5	14.0		0	off	480	ok
6	14.1		0	off	480	ok
7	14.0		0	off	480	ok
8	14.0		0	off	480	ok
9	14.0		0	off	480	ok
10	14.5		0	off	480	ok
11	14.5		0	off	480	ok.
12	14.4		0	off	480	ok
13	15.1		0	off	480	OK
14	14.0		0	off	480	OK
15	13.7		0	off	480	ok
16	14.1		0	off	480	ok
17	13.6		0	off	480	ok
18	13.8		0	off	480	ok
19	13.5		0	off	480	ok
20	14.6		0	off	480	ok
21	14.4		0	off	480	OK
22	14.1		0	off	480	ok
23	14.5		0	off	480	ok
24	14.1		0	off	480	ok
25	14.0		0	off	480	ok
26	14.0		0	off	480	ok
27	14.2		0	off	480	ok
28	14.6		0	OFF	480	ok
29	13.4		0	off	480	ok
30	14.0		0	off	480	ok
31	13.7		0	off	480	ok
1						

Month Of 12, 1 , 1988

SALT WATER STATION NO. 80.D S.W.S

DATE	HR. METER	NO. 1 PUMP	HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
	7 at		taplet	oil press	480	
2	21.7		10.3	40	480	ok
3	15.7		1.7	off	480	ok
4	14.5		— 0 —	off	480	OK
5	13.7		— 0 —	—	480	OK
6	13.9		0	off	480	ok
7	13.9		0	off	480	ok
8	12.9		0	off	480	ok
9	14.0		0	off	480	ok
10	13.9		0	off	480	ok
11	14.0		0		480	OK
12	13.6		0		480	OK
13	13.7		0	off	480	ok
14	13.8		0	off	480	ok
15	13.9		0	off	480	ok
16	13.9		0	off	480	ok
17	13.8		0	off	480	ok
18	14.6		—		480	OK
19	14.4		—		480	OK
20	13.0		—	off	480	ok
21	13.8		—	off	480	ok
22	13.9		—	off	480	ok
23	14.0		—	off	480	ok
24	14.0		—	off	480	ok
25	13.8		—	off	480	OK
26	14.2		—	—	480	OK
27	13.4		—	off	480	ok
28	14.3		—	off	480	ok
29	13.7		—	off	480	ok
30	14.5		—	off	480	ok
31	14.2		—	off	480	ok
1	15.6			off	480	OK

Month Of 1/1, 1987

SALT WATER STATION NO. 8.0 S.W.S

oil press

	DATE	HR. METER (new pump)	NO. 1 PUMP	HR. METER (old pump)	NO. 2 PUMP	PRESSURE	PIT LEVEL
40	2	20.6			0	680	OK
40	3	20.3			0	680	OK
39	4	20.5			0	680	OK
39	5	20.5			0	680	OK
40	6	20.3			0	680	OK
40	7	19.7			0	680	OK
41	8	20.2			0	680	OK
40	9	20.3			0	680	OK
42	10	20.3			0	680	OK
40	11	20.6			0	680	OK.
39	12	19.8			0	680	OK
40	13	17.7			0	680	OK
42	14	19.1			0	680	OK
42	15	20.3			0	680	OK
42	16	20.3			0	680	OK
40	17	20.4			0	680	OK
42	18	20.9			0	680	OK
42	19	20.7			0	680	OK
42	20	20.7			0	680	OK
42	21	19.0			0	680	OK
40	22	21.3			0	680	OK
42	23	20.4			0	680	OK
42	24	20.2			0	680	OK
42	25	21.4			0	680	OK
42	26	19.2			0	680	OK
42	27	20.6			0	680	OK
42	28	20.3			0	680	OK
42	29	19.4			0	680	OK
42	30	19.6			0	680	OK
Off	31	20.7			0	680	OK
Off	1	20.2			0	680	OK

Month Of 2, 1, 1987

SALT WATER STATION NO. 8 D

oil gauge — new pump — old pump — 650 — ok

	DATE	HR. METER	NO. 1 PUMP	HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
42	2	20.2			0	680	OK
42	3	20.3			0	680	ok
40	4	21.6			0	680	ok
40	5	20.3			0	680	ok
42	6	20.4			0	680	ok
40	7	23.9			0	680	ok
42	8	24.2			0	680	OK
38	9	21.2			0	680	OK
38	10	22.3			0	680	ok
38	11	23.			0	680	ok
38	12	24.0			0	680	ok
38	13	23.9			0	680	ok
42	14	23.2			0	680	ok
38	15	23.2			0	680	OK
40	16	23.2			0	680	OK
off	17	23.2			0	680	ok
40	18	23.1			0	680	ok
40	19	24.0			0	680	ok
38	20	23.2			0	680	ok
40	21	23.5			0	680	ok
40	22	23.0			0	680	OK
40	23	22.0			0	680	OK
42	24	20.1			0	680	ok
off	25	21.8			0	680	ok
42	26	20.8			0	680	ok
42	27	16.5			0	680	ok
42	28	21.3			0	680	ok
	29						
	30						
	31						
42	1	21.3			0	680	OK

Month Of 3-1, 19 8)

SALT WATER STATION NO. 8D

New Pump — OLD Pump — 680 — OK

Oil press	DATE	HR. METER	NO. 1 PUMP	HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
42	2		20.5		0	680	OK
42	3		21.1		0	680	ok
42	4		21.3		0	680	ok
38	5		21.3		0	680	ok
38	6		20.5		0	680	ok
38	7		21.4		0	680	ok
38	8		20.6		0	680	ok
off	9		21.0		0	680	OK
42	10		20.3		0	680	ok
42	11		20.2		0	680	ok
42	12		21.1		0	680	ok
42	13		20.4		0	680	ok
42	14		21.5		0	680	ok
40	15		20.5		0	680	OK
42	16		20.7		0	680	OK
42	17		21.1		0	680	ok
off	18		20.8		0	680	ok
42	19		21.0		0	680	OK
42	20		20.3		0	680	ok
42	21		20.3		0	680	ok
42	22		19.4		0	680	OK
40	23		19.6		0	680	OK
42	24		20.5		0	680	OK
42	25		20.4		0	680	ok
off	26		20.9		0	680	ok
44	27		20.9		0	680	ok
42	28		20.5		0	680	ok
42	29		20.6		0	680	OK
42	30		20.9		0	680	OK
44	31		21.0		0	680	OK
off	1		20.4		0	680	OK

Month Of 4-1, 19 87

SALT WATER STATION NO. 8 D

Oil Press. New Pump Old Pump 680 OK

	DATE	HR. METER	NO. 1 PUMP	HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
42	2	19.0			0	680	OK
42	3	20.2			0	680	OK
Off	4	19.5			0	680	OK
40	5	19.9			0	680	OK
40	6	20.8			0	680	OK
40	7	19.4			0	680	OK
Off	8	15.5			0	680	OK
Power Failure Off	9	9.8			0		OK
42	10	19.4			0	680	OK
40	11	23.1			0	680	OK
38	12	23.9			0	680	OK
40	13	20.0			0	680	OK
40	14	19.0			0	680	OK
40	15	19.5			0	680	OK
38	16	21.1			0	680	OK
38	17	21.4			0	680	OK
40	18	21.4			0	680	OK
Off	19	21.0			0	680	OK
40	20	20.9			0	680	OK
38	21	21.3			0	680	OK
38	22	22.1			0	680	OK
36	23	16.6			0	680	OK
42	24	21.6			0	680	OK
40	25	22.3			0	680	OK
Off	26	22.0			0	680	OK
36	27	22.1			0	680	OK
36	28	21.6			0	680	OK
42	29	20.4			0	680	OK
40	30	21.4			0	680	OK
42	31	23.3			0	680	OK
	1						

Month Of 5, 1, 1987

SALT WATER STATION NO. 8 D S.W.S

oil press	DATE	HR. METER (New pump)	NO. 1 PUMP	HR. METER (old pump)	NO. 2 PUMP	PRESSURE (680)	PIT LEVEL (ok)
42	2	18.7		0		680	ok
40	3	16.0		0		680	OK
off	4	16.8		0		680	OK
off	5	20.8		0		680	ok
38	6	20.5		0		680	ok
42	7	21.4		0		680	ok
40	8	20.3		0		680	ok
42	9	22.3		0		680	ok
Off	10	22.0		0		680	OK
38	11	21.8		0		680	OK
42	12	22.3		0		680	ok
42	13	21.5		0		680	ok
40	14	21.5		0		680	ok
38	15	22.3		0		680	ok
42	16	19.3		0		680	ok
42	17	21.6		0		680	OK
38	18	22.1		0		680	OK
36	19	21.9		0		680	ok
42	20	22.2		0		680	ok
42	21	21.4		0		680	ok
42	22	22.4		0		680	ok
40	23	21.3		0		680	ok
38	24	22.4		0		680	OK
36	25	22.0		0		680	OK
38	26	21.4		0		680	ok
38	27	22.4		0		680	ok
38	28	21.4		0		680	ok
40	29	22.1		0		680	ok
40	30	21.4		0		680	ok
40	31	22.2		0		680	OK
off	1	9.1		0		680	OK

Month Of 6-1, 1987

SALT WATER STATION NO. 80 SWS

Oil Press — New Pump — Old Pump — 680 — ok

	DATE	HR. METER	NO. 1 PUMP	HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
38	2	23.0		0		680	ok
38	3	23.9		0		680	ok
40	4	24.1		0		680	ok
40	5	22.1		0		680	ok
38	6	22.3		0		680	ok
36	7	21.4		0		680	ok
38	8	22.3		0		680	OK
40	9	21.5		0		680	ok
40	10	22.2		0		680	OK
42	11	21.5		0		680	ok
42	12	21.3		0		680	ok
	13	21.4		0		680	ok
38	14	22.3		0		680	OK
40	15	21.6		0		680	OK
42	16	22.2		0		680	ok
42	17	21.5		0		680	ok
42	18	22.2		0		680	ok
42	19	19.6		0		680	ok
off	20	19.4		0		680	ok
42	21	21.8		0		680	OK
42	22	18.7		0		680	OK
42	23	19.4		0		680	ok
42	24	21.4		0		680	ok
42	25	22.3		0		680	ok
42	26	21.6		0		680	ok
off	27	21.7		0		680	ok
42	28	21.3		0		680	OK
42	29	21.4		0		680	OK
42	30	22.1		0		680	ok
42	31	18.6		0		680	ok
	1						

Month Of 7/, 1987

SALT WATER STATION NO. 8D

oil press

	DATE	HR. METER (New pump)	NO. 1 PUMP	HR. METER (old pump)	NO. 2 PUMP	PRESSURE (680)	PIT LEVEL (ok)
off	2	19.6		0		680	ok
42	3	20.9		0		680	ok
42	4	19.2		0		680	ok
42	5	22.4		0		680	OK
42	6	21.5		0		680	OK
42	7	20.3		0		680	ok
42	8	21.3		0		680	ok
42	9	21.5		0		680	ok
42	10	22.2		0		680	ok
off	11	21.6		0		680	ok.
42	12	20.2		0		680	OK
off	13	~~21.6~~		0		680	ok
off	14	21.6		0		680	ok
42	15	21.6		0		680	ok
42 ~~off~~	16	21.4		0		680	OK
off	17	21.6		0		680	ok
42	18	23.9		0		680	ok
42	19	24.2		0		680	OK
42	20	23.7		0		680	OK
42	21	23.6		0		680	ok
42	22	22.5		0		680	ok
42	23	23.9		0		680	ok
42	24	24.1		0		680	ok
42	25	22.3		0		680	ok
42	26	20.9		0		680	ok
OFF	27	2.8		0		680	ALMOST FULL
42	28	21.4		0		680	ok
42	29	21.9		0		680	ok
off	30	21.6		0		680	ok
42	31	22.4		0		680	ok
40	1	23.6		0		680	ok

pit

Month Of 8, 1, 1987

SALT WATER STATION NO. 8.0.

oilpress	DATE	HR. METER (new pump)	NO. 1 PUMP	HR. METER (old pump)	NO. 2 PUMP	PRESSURE (680)	PIT LEVEL (ok)
	2	15849.5				680	OK
	3	15872.8	23.3			680	OK
40	4		23.8	0		680	ok
off	5		6.2	0		680	ok
off	6		0	0		0	0
off	7						
off	8	—	—	—		—	—
OFF	9	15913.8	12.0	0			OK
	10		18.3	0			OK
	11		20.0			500	OK
	12		21.4	0		500	OK
40#	13	15992.7		0		500	OK
40#	14	16013.1	20.4	0		520	OK
40#	15	16033.4	20.3	0		520	OK
40	16	16052.2	18.8	0		535	OK
40	17	16072.3	20.1	0		540	OK
40	18		20.1				
40	19	16110.5	18.1	0		540	OK
40	20	16130.5	20.0	0		540	OK
	21	16150.5	20.0	0		540	OK
40#	22	16170.3	19.8	0		540	OK
40	23	16187.2	16.9	0		540	OK
OFF	24	16207.0	19.8	0		540	OK
40	25		18.3	0		540	ok
42	26		18.2	0		540	ok
42	27		20.5	0		5[illegible]	
40	28		21.2	0		540	ok
38	29		20.5	0		540	ok
38	30		20.5	0		540	OK
42	31		16.8	0		540	OK
38	1		20.1	0		540	ok

Month Of 9/1, 1987

SALT WATER STATION NO. 8.0 SWS

oil press — new pump — old pump — 540 — oil

	DATE	HR. METER	NO. 1 PUMP	HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
off	2	20.1			0	540	ok
off	3	19.6			0	540	ok
38	4	20.1			0	540	ok
40	5	20.3			0	540	ok
38	6	19.5			0	540	OK
40	7	19.7			0	540	OK
42	8	22.0			0	540	ok
off	9	19.9			0	540	ok
42	10	18.8			0	540	ok
was off 42	11	16.0			0	540	ok
42	12	19.4			0	540	ok
42	13	20.2			0	540	OK
40	14	17.6			0	540	OK
38	15	20.3			0	540	ok
38	16	19.7			0	540	ok
40	17	16.9			0	540	ok
40	18	19.1			0	540	ok
40	19	18.2			0	540	ok
38	20	19.2			0	540	OK
40	21	18.1			0	540	OK
42	22	18.5			0	540	ok
38	23	18.6			0	540	ok
40	24	17.8			0	540	ok
lowing 38	25	24.1			0	540	ok
101 36	26	24.0			0	540	ok
" 34	27	24.1			0	540	OK
" 38	28	24.0			0	540	OK
38	29	24.0			0	540	ok
38	30	23.9			0	540	ok
38	31	24.1			0	540	ok
	1						

Month Of 10/1, 1987

SALT WATER STATION NO. S.D. SW 5.

oil press — new pump — old pump — 540 — ok

oil press	DATE	HR. METER (new pump)	NO. 1 PUMP	HR. METER (old pump)	NO. 2 PUMP	PRESSURE	PIT LEVEL
40	2	23.9		0		540	ok
38	3	23.9		0		540	ok
38	4	24.2		0		540	OK
36	5	23.9		0		540	OK
40	6	23.3		0		540	ok
40	7	23.6		0		540	ok
42	8	23.3		0		540	ok
42	9	24.0		0		540	ok
42	10	24.0		0		540	ok
40	11	23.7		0		540	OK
40	12	23.9		0		540	OK
38	13	24.0		0		540	ok
42	14	23.0		0		540	ok
40	15	24.1		0		540	ok
40	16	22.8		0		540	ok
40	17	22.2		0		540	ok
40	18	23.3		0		540	OK
42	19	17.9		0		540	OK
42	20	21.0		0		540	ok
42	21	24.9		0		540	ok
42	22	22.2		0		540	ok
40	23	23.2		0		540	ok
42	24	22.4		0		540	ok
42	25	24.5		0		540	OK
OFF	26	21.9		0		540	OK
42	27	20.5		0		540	ok
42	28	20.3		0		540	ok
42	29	20.2		0		540	ok
42	30	20.1		0		540	ok
	31	21.1		0		540	ok
40	1	19.5		0		540	OK

DOWN → 42

LIGHT SAVINGS

Month Of NOVEMBER, 19 87

SALT WATER STATION NO. 8-D

oil press	DATE	HR. METER (New Pump)	NO. 1 PUMP	HR. METER (Old Pump)	NO. 2 PUMP	PRESSURE (540)	PIT LEVEL
40	2	20.5		6		540	OK
42	3	19.1		0		540	OK
42	4	19.0		0		540	OK
42	5	20.1		0		540	OK
42	6	19.1		0		540	OK
42	7	19.2		0		540	OK
OFF	8	20.3		8		540	OK
OFF	9	18.4		8		540	OK
off	10	18.5		0		540	OK
off	11	18.7		0		540	OK
42	12	18.8		0		540	OK
42	13	19.0		0		540	OK
42	14	19.2		0		540	OK
42	15	19.3		0		540	OK
42	16	19.7		0		540	OK
off	17	18.5		0		540	OK
42	18	19.0		0		540	OK
38	19	18.9		0		540	OK
38	20	19.2		0		540	OK
42	21	19.2		0		540	OK
40	22	19.2		0		540	OK
38	23	18.0		0		540	OK
38	24	18.7		0		540	OK
off	25	18.3		0		540	OK
38	26	18.5		0		540	OK
40	27	17.7		0		540	OK
38	28	17.9		0		540	OK
40	29	18.1		0		540	OK
OFF	30	18.3		0		540	OK
off	31	17.1		0		540	OK
	1						

Month Of 12, 1, 1987

SALT WATER STATION NO. 8 D S.W.S

oil press shut in 12, 2

	DATE	New pump HR. METER	NO. 1 PUMP	old pump HR. METER	NO. 2 PUMP	PRESSURE	PIT LEVEL
off	2	18.2		0		540	ok
42	3	10.0		0		540	ok
42	4	11.0		0		540	ok
off	5	11.3		0		540	ok
42	6	11.2		0		540	OK
42	7	11.0		0		540	OK
42	8	8.3		0		540	ok
off	9	10.7		0		540	ok
42	10	10.5		0		540	ok
42	11	11.9		0		540	ok
off	12	12.8		0		540	ok
40	13	11.8		0		540	OK
OFF	14	10.4		0		540	OK
off	15	10.5		0		540	ok
42	16	10.6		0		540	ok
off	17	13.7		0		540	ok
off	18	13.9		0		540	ok
40	19	15.3		0		540	ok
40	20	15.8		0		540	OK
38	21	15.0		0		540	OK
off	22	14.4		0		540	ok
42	23	5.6		0		540	ok
38	24	20.3		0		540	ok
38	25	17.6		0		540	ok
38	26	20.3		0		540	ok
36	27	20.7		0		540	OK
36	28	20.7		0		540	OK
36	29	20.2		0		540	ok
36	30	20.5		0		540	ok
38	31	22.4		0		540	ok
38	1	23.6		0		540	ok

emptying pit

United States
Environmental Protection
Agency

Region 8, Montana Office
Federal Building
301 S. Park, Drawer 10096
Helena, Montana 59626-0096

EPA

EPA ID No: MTS 2023-0025

UIC PROGRAM
INSPECTION REPORT

Company: MURPHY OIL Date: JUNE 9-1988

Well Name: 8-D

Field Name: Poplar East County: Roosevelt

Location of Well: T 28N, R 51E, Sec 10 Type of Well: SWD ✓ ER ___

Type of Inspection: Routine (incl. MIT) ✓ Compliance ___ P&A ___ Other ___

Status: Active ✓ TA ___ Other ___

Summary of Findings:

Gages Present: Annulus ___ Tubing ___

Pressures: Annulus 0 Tubing 550

Volume Totalizer:

Mfg. — Mod # — Location — Manifolded? —

Sampling Tap: Location: FLO LINE

Sample Taken: NO

Records Comments: ___

Photos Taken: NO

General Appearance of Site: GOOD

Other Comments: Production tank calibrated - Annulus Gauge used only for periodic tests - Cl 153000 PPM

Company Rep. Notified: Beede Company Rep. Present: Pumper

Inspected By: [signature]
(signature)

(6)

2-1,2

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION VIII

MTS2023-0023

UIC PROGRAM COMPLIANCE FIELD INSPECTION REPORT

COMPANY: Murphy Oil USA, Inc. REPRESENTATIVE: Ray Reede

ADDRESS: P.O. Box 547, Poplar 59255 PHONE: 768-3611

FIELD/WELL NAME: E. Poplar / EPU 8-D

LOCATION: SE/4; SEC. 10 ; T28N; R51E; COUNTY: Roosevelt STATE: MT

RECORDS INSPECTION

1) Injection Rate: Max. 8400 B/D; Ave. _____ B/D; Pmt.Max. _____ B/D

2) Inject. Pressure: Ave. _____ psig; Max. 700 psig; Pmt.Max. _____ psig

3) Cumulative Injected Volume: _____ Bbl

4) Comments: _____

WELLHEAD INSPECTION

General Surface Condition: Good, wellhead outside of pumphouse
[photos, (Y)(N)]

1) Injection Rate: — B/D; 2) Meter Type: none
Location: (at well)(at pump)

3) Inject. Pressure: (wellhead) — psig; 3a)(pump) 530-540 psig

Range: _____ psig Range: _____ psig

Comments: _____

Injected Water Source: _____

Water Sampling Location/Techniques/Analyses _____

General Remarks/Comments _____

INSPECTOR(S): M. Herman Jerry Hagedal

DATE: 8-26-87

MURPHY OIL — JIM CORNE
MTS 2023 · 0023 — 9/29/89
8·D

POPLAR EAST
28N 51E 1D
ROOSEVELT
SWD
ACTIVE

	WELL	AVG.
TP	520 PSIG	440
AP	0 PSIG	

	RANGE	AVG
IR 5206 B/D	4800-5200	5000

MT HALLIBURTON MC-[illegible] WELL
MR 210,630

PHOTOS RS-1,2/12,

- WELL WRAPPED IN INS., CELLAR BUILT RECENT
- ANNULUS CONTINUES DRIPPING WHEN OPEN.
- OILWELL TRIPLEX DRIVEN BY 100 H.P. ELEC. MOTOR, SAMPLE TAP ON PUMP.
- SAMPLE TAP 1/2" ON TUBING & ANNULUS
- MOTOR IN BACK UP INJ. PLANT.
- SIGN ON INJ. PLANT, WELL LOCATED AT INJ. PLANT (500 BBL TANK)
- RUNS 23 HR/D
- RECORDS KEPT IN FOR HOUSE NEAR INJ. PLANT, NISKU PROD.