OFFICIAL PHOTOGRAPH
REGION VIII
U.S. ENVIRONMENTAL PROTECTION AGENCY

****

PROJECT/CASE NO: MTS 2023.0023
SUBJECT: MURPHY OIL
LOCATION: POPLAR EAST / 8-D
28N 51E SEC 10
CITY: POPLAR COUNTY: ROOSEVELT STATE: MT.
DATE: 9/29/89 TIME:
WEATHER: (SUN) (HAZE) (CLOUDY) (RAIN) (SNOW)
PHOTOGRAPHER (Sig.) [illegible]
WITNESS: JIM CORNE
CAMERA: RICOH 35MM
FILM TYPE: KODAK ASA: 200 T:1/ f:
NEGATIVE LOCATION: EE1 FILE #:
PROCESSED BY:
PHOTO #: R5 1 of 12

EPA-R8-1335 9/85 GPO 848-085

OFFICIAL PHOTOGRAPH
REGION VIII
U.S. ENVIRONMENTAL PROTECTION AGENCY

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PROJECT/CASE NO: MTS 2023.0023
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PROCESSED BY:
PHOTO #: R5 2 of 12

EPA-R8-1335 9/85 GPO 848-085

U. S. ENVIRONMENTAL PROTECTION AGENCY
REGION VIII

RECEIVED
OCT 16 1989
EPA REGION VIII
DRINKING WATER BRANCH

UIC PROGRAM COMPLIANCE FIELD INSPECTION REPORT

COMPANY: MURPHY OIL REPRESENTATIVE: RAY REEDE (POPLAR)

ADDRESS: 200 PEACH ST., ELDORADO, ARK PHONE: 768-3611

FIELD/WELL NAME: POPLAR EAST / 8-D

LOCATION: ___/4; SEC. 10; T28N; R51E; COUNTY: ROOSEVELT STATE: MT

RECORDS INSPECTION

1) Injection Rate: Max. 5200 B/D; Ave. 5000 B/D; Pmt.Max. _____ B/D

2) Inject. Pressure: Ave. 490 psig; Max. _____ psig; Pmt.Max. _____ psig

3) Cumulative Injected Volume: 210,630 Bbl Permit #: MT52023-0023

4) Comments: METER READING ABOVE, WELL GRANTED EXTENSION 11/16/84. PERMIT NOT ON FILE IN MONTANA OFFICE FIELD NOTES ATTACHED

WELLHEAD INSPECTION

General Surface Condition: WELL WRAPPED WITH INSULATING MATERIAL. [photos, (Y)(N)] RS 1/12, 2/12 CELLAR RECENTLY BUILT. SIGN ON INJ. PLANT.

1) Injection Rate: 5206 B/D; 2) Meter Type: HALLIBURTON MC-II
Location: (at well)(at pump)

3) Inject. Pressure: (wellhead) 520 psig; 3a) (pump) _____ psig

Range: _____ psig Range: _____ psig

Comments: WELL LOCATED AT INJ. PLANT. INJ. ~~REC~~ RECORDS KEPT IN INJECTION PLANT. PUMP RUNS 23 HRS/DAY.

Injected Water Source: PRODUCED NISKU WATER.

Water Sampling Location/Techniques/Analyses SAMPLE TAPS WITH ½" FITTINGS ON TUBING AND ANNULUS. SAMPLE TAP ON PUMP.

General Remarks/Comments OILWELL TRIPLEX PUMP BELT DRIVEN BY 100 HP. ELEC. MOTOR. OPERATES ON MURPHY SWITCH.

INSPECTOR(S): STEVE DUTNELL S. Dutnell

DATE: 9/29/89

MTS2023-0023

USEPA REGION VIII
UIC PROGRAM
FILE REVIEW

COMPANY : MURHPY OIL
FIELD/WELL NAME: POPLAR EAST / 8-D.

CONSTRUCTION

SURFACE CASING : $9\frac{5}{8}$" @960', 390 sx.
PROD. CASING : $5\frac{1}{2}$" @ 5765', 250 sx
TUBING : $2\frac{7}{8}$
PACKER :
CEMENT :
PERFORATIONS :

MONITORING

Inquire about state of permit application. It was not in file

INJECTION LIMITATIONS

MAXIMUM PRESSURE :
MAXIMUM RATE :

RECEIVED
OCT 16 1989
EPA REGION VIII
DRINKING WATER BRANCH

Oct. 12, 1989

Mark,

Here are the inspection reports that you had requested be sent directly to you. I have made copies to send to Jim in Helena. Photographs for the Citation wells will be sent later as they have not yet been developed.

Steve Dutchell

U.S. ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF INSPECTION

RECEIVED
OCT 16 1989
EPA REGION VIII
DRINKING WATER BRANCH

Address (EPA Regional Office)	Inspection Contractor	Firm To Be Inspected
Region VIII, 8WM-DW 999 18th St., Suite 500 Denver, CO 80202-2405	ENGINEERING ENTERPRISES, INC. Headquarters 1225 West Main, Norman, OK 73069 (405) 329-8300 TELEX 333668	MURPHY OIL POPLAR, TULE CR., VOLT. BENRUD EAST, TULE CR. EAST

Date 9/29/89
Hour 10:00 AM

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300 f et seq.).

Reason For Inspection

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable permit or rule.

Ray Reede

Section 1445(b) of the SDWA (42 U.S.C. §300 j-4 (b) is quoted on the reverse of this form.

Receipt of this Notice of Inspection is hereby acknowledged.

Firm Representative	Date	Inspector
RAY REEDE	9/29/89	S L Dutnell STEVE DUTNELL

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

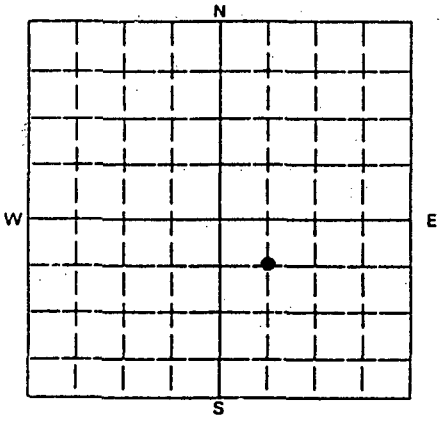
EPA

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

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
- [x] Brine Disposal
- [ ] Enhanced Recovery
- [ ] Hydrocarbon Storage

TYPE OF PERMIT
- [x] Individual
- [ ] Area
- Number of Wells ____

Lease Name East Poplar Unit Well Number 8-D

RECEIVED
JAN 17 1989
EPA REGION VIII
DRINKING WATER BRANCH

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	88	540	540	124,013	0	0	0
2	88	540	540	117,357	0	0	0
3	88	540	540	153,529	0	0	0
4	88	540	540	153,143	0	0	0
5	88	540	540	151,748	0	0	0
6	88	540	540	152,046	0	0	0
7	88	540	540	142,330	0	0	0
8	88	505	540	134,386	0	0	0
9	88	470	470	128,779	0	0	0
10	88	470	470	138,062	0	0	0
11	88	490	490	127,157	0	0	0
12	88	470	515	136,901	0	0	0

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	1-13-89

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 ✓ Tubing 550

Volume Totalizer:

Mfg. — Mod # — Location — Manifolded? —

Sampling Tap: Location: FLOWLINE

Sample Taken: NO

Records Comments: ___

Photos Taken: NO

General Appearance of Site: GOOD

Other Comments: Production based calculated - Annulus Gauge used only for periodic tests - Ave 153000 BPM

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

Inspected By: [signature]
(signature)

Form Approved. OMB No. 2060-0042. Approval expires 9-30-86

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

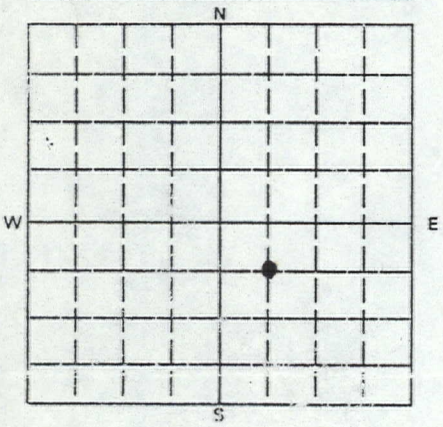
ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

RECEIVED JAN 19 1988 EPA REGION VIII DRINKING WATER BRANCH

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

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MT~~521PE~~-0023 52023

SURFACE LOCATION DESCRIPTION
NW ¼ OF SE ¼ OF 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
- [x] Brine Disposal
- [ ] Enhanced Recovery
- [ ] Hydrocarbon Storage

TYPE OF PERMIT
- [x] Individual
- [ ] Area
- Number of Wells ____

Lease Name East Poplar Unit Well Number 8-D

		INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
1	87	680	680	118,046	0	0	0
2	87	680	680	124,865	0	0	0
3	87	680	680	121,909	0	0	0
4	87	680	680	122,335	0	0	0
5	87	680	680	127,506	0	0	0
6	87	680	680	127,213	0	0	0
7	87	680	680	133,054	0	0	0
8	87	550	680	113,786	0	0	0
9	87	540	540	149,721	0	0	0
10	87	540	540	182,470	0	0	0
11	87	540	540	164,878	0	0	0
12	87	540	540	123,670	0	0	0

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 Production Manager	Raymond Reede	1-13-88

EPA Form 7520-11 (2-84)

MURPHY
OIL USA, INC.

POST OFFICE BOX 547
POPLAR, MONTANA 59255

RECEIVED
JAN 3 1989

December 29, 1988

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

Dear Mr. Dodson:

Enclosed are the water analysis on the following wells:

East Poplar Unit 1-D ~~2102-0082~~ 2022-0022 - No analysis included
East Poplar Unit 5-D ~~2112-0021~~ 2024-0021 - no analysis included
? East Poplar Unit 8-D ~~[illegible]~~ 2023-0023
? Sletvold B-1 ~~2056~~-0047 - no analysis included
Courchene 2-D ~~[illegible]~~ 2398-1103
? Lillian 1-D 2035-0046 - no analysis included
NA Wetsit 1-D 2302-0012

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

Sincerely,

Raymond Reede

Raymond Reede
District Manager

RR/jh
enclosures

SPUR

NALCO

ANALYTICAL LABORATORY REPORT

RECEIVED
JAN 3 1989
EPA REGION VIII
DRINKING WATER BRANCH

MURPHY OIL CORP.
POPLAR, MONTANA

29-NOV-88

EPU #8-D
PRODUCED

Page 1

2023-0023

>>> Oil Field Water Analysis <<<

DISSOLVED SOLIDS

Cations		mg/l	meq/l		mg/l
Sodium	Na+	43,295.8	1,882.4	as NaCl	
Calcium	Ca++	1,000.0	50.0	as CaCO3	2,500.0
Magnesium	Mg++	121.5	10.0	as CaCO3	500.0
Barium	Ba++			as CaCO3	
Strontium	Sr++			as CaCO3	
Total Cations		44,417.3	1,942.4		

Anions		mg/l	meq/l		mg/l
Chloride	Cl-	67,984.0	1,917.1	as NaCl	112,000.0
Sulfate	SO4=	811.2	16.9	as Na2SO4	1,200.0
Carbonate	CO3=			as CaCO3	
Bicarb.	HCO3-	512.4	8.4	as CaCO3	420.0
Total Anions		69,307.6	1,942.4		

Total Solids 113,724.9

METALS

Total Iron,Fe	2.0	as Fe	2.0
Acid to Phen,CO2	158.4	as CaCO3	360.0

OTHER PROPERTIES

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

D Kasowski
Service Technician

One Nalco Center
Naperville, IL 60566-1024

P. O. Box 87
Sugar Land, Texas 77487

MURPHY OIL CORP.
POPLAR, MONTANA

29-NOV-88

EPU #8-D
PRODUCED 2023 - 0023

>>> Scaling Indices <<<

Positive values indicate scaling tendencies

Temperature (Deg. F)	Calcium Carbonate	Calcium Sulfate	Barium Sulfate	Strontium Sulfate
60	-1.41	-59.06	NA	NA
80	-1.21	-59.37	NA	NA
100	-0.97	-59.50	NA	NA
120	-0.69	-59.11	NA	NA
140	-0.36	-58.04	NA	NA
160	NA	-56.89	NA	NA
180	+0.40	-55.72	NA	NA
200	+0.86	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

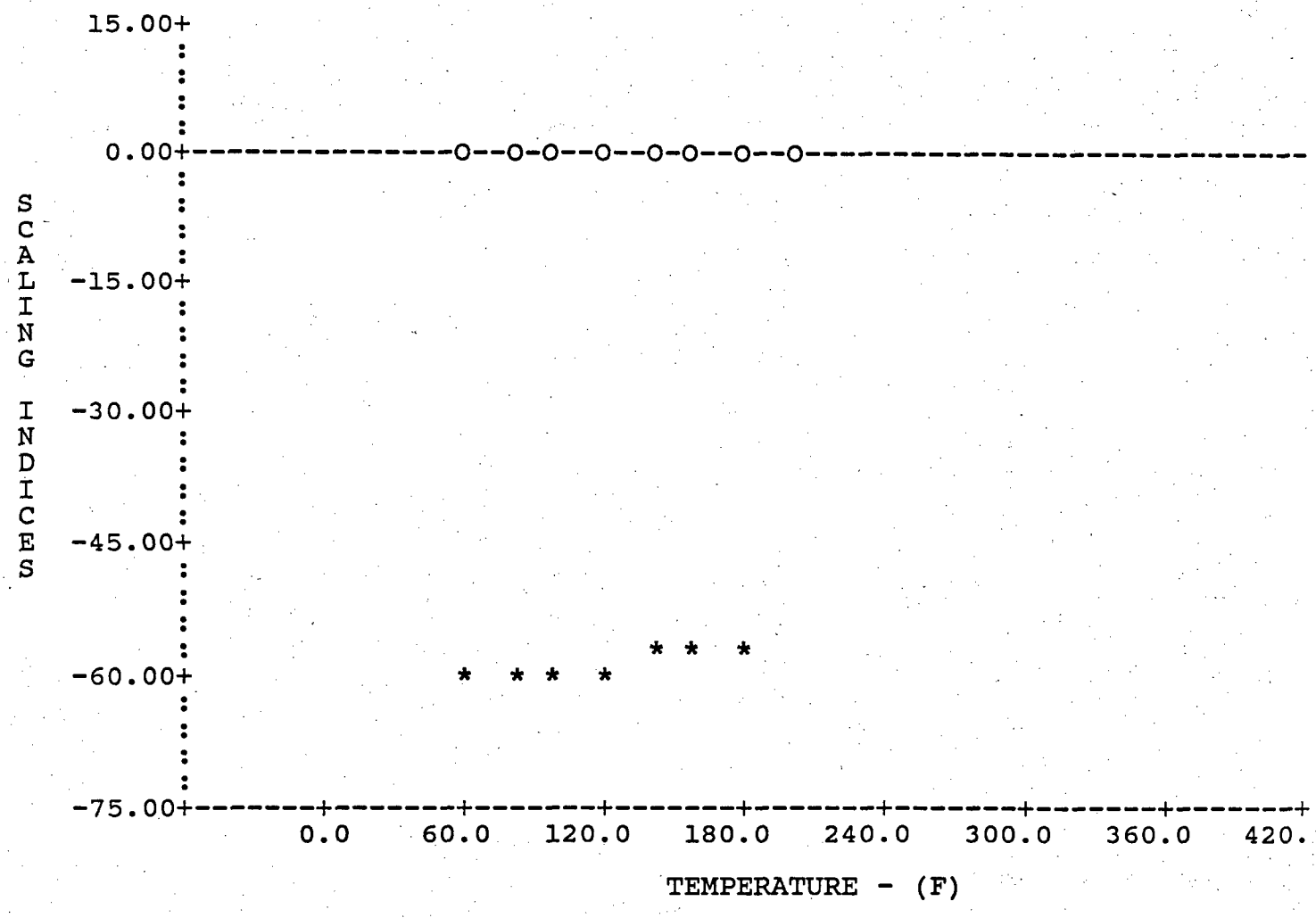
REMARKS: Sample marked 8-D 7:30 a.m. (MST)
Taken from Disposal Tank
Sample Container 6 oz. Bottle

MURPHY OIL CORP.
POPLAR, MONTANA

29-NOV-88

EPU #8-D
PRODUCED 2023-0023

>>> Scaling Indices <<<



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

(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

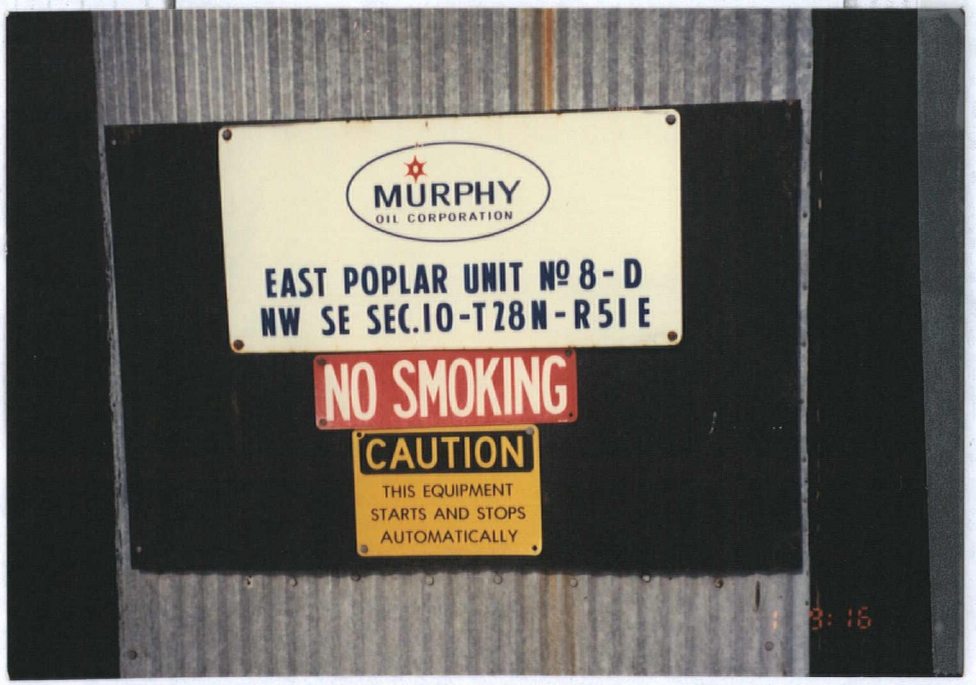
DATE: 8-26-87

EPU 8-D MTS2023-0023

3½ x 5¼ PRINTS

MTS 2023-0023
5/1/90
Billy B. 2

Murphy Oil
East Poplar Unit
Well # 8-D
NW SE Sec 10
T28N, R51E
Roosevelt Co., Mt.
MTS 2023-0023
5/1/90
Billy B. 2

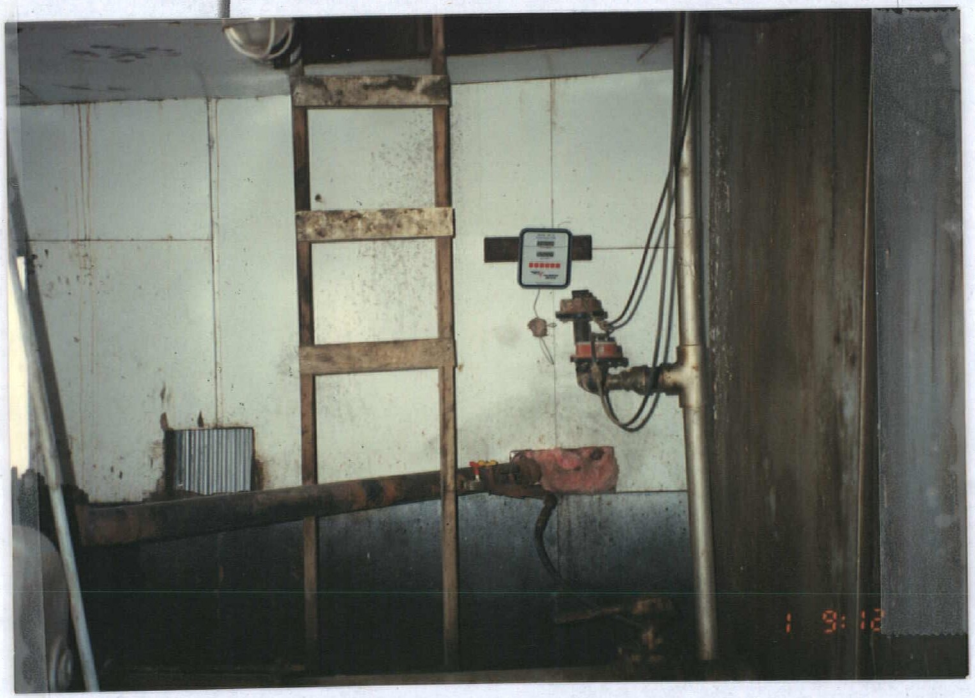


EPU 8-D MTS2023-0023

3½ x 5¼ PRINTS

8-26-87
EPU 8-D MTS2023-0023
well head

Murphy Oil
East Poplar Unit
Well # 8-D
NW SE Sec. 10
T. 28N, R 51E
Roosevelt Co., Mt.
MTS 2023-0023
5/1/90
Billy B.



EPU 8-D MTS2023-0023

3½ x 5¼ PRINTS

8-26-87
EPU 8-D MTS2023-0023
location sign on pump house

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

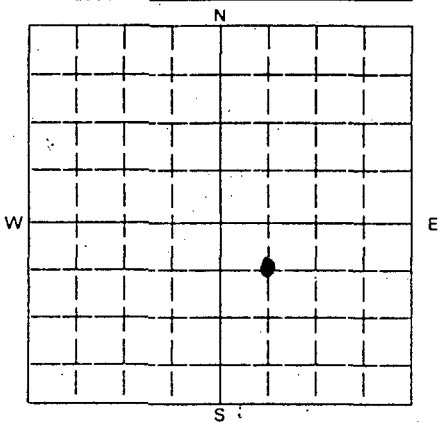
MTS 0023-0023

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.
Box 277
Poplar, MT 59255

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MT 521PE -0023

SURFACE LOCATION DESCRIPTION
NW ¼ OF SE ¼ OF 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 1

Lease Name East Poplar Unit Well Number 8-D

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 - 86	680	680	178,618	0	0	0
2 - 86	680	680	162,946	0	0	0
3 - 86	680	680	160,886	0	0	0
4 - 86	680	680	148,316	0	0	0
5 - 86	680	680	134,556	0	0	0
6 - 86	680	680	128,950	0	0	0
7 - 86	680	680	142,097	0	0	0
8 - 86	680	680	141,686	0	0	0
9 - 86	680	680	136,589	0	0	0
10 - 86	680	680	115,744	0	0	0
11 - 86	680	680	116,256	0	0	0
12 - 86	680	680	116,799	0	0	0

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 Superintendent	Raymond Reede	1-9-87

EPA Form 7520-11 (2-84)

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

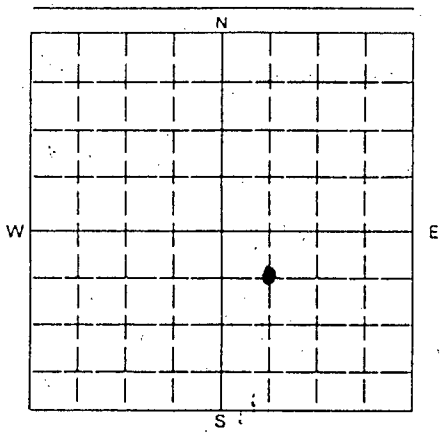
EPA

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.
Box 277
Poplar, MT 59255

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MT 521PE -0023

SURFACE LOCATION DESCRIPTION
NW ¼ OF SE ¼ OF 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
- [x] Brine Disposal
- [ ] Enhanced Recovery
- [ ] Hydrocarbon Storage

TYPE OF PERMIT
- [x] Individual
- [ ] Area

Number of Wells 1

Lease Name East Poplar Unit Well Number 8-D

	INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
1 - 86	680	680	178,618	0	0	0
2 - 86	680	680	162,946	0	0	0
3 - 86	680	680	160,886	0	0	0
4 - 86	680	680	148,316	0	0	0
5 - 86	680	680	134,556	0	0	0
6 - 86	680	680	128,950	0	0	0
7 - 86	680	680	142,097	0	0	0
8 - 86	680	680	141,686	0	0	0
9 - 86	680	680	136,589	0	0	0
10 - 86	680	680	115,744	0	0	0
11 - 86	680	680	116,256	0	0	0
12 - 86	680	680	116,799	0	0	0

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 Superintendent	Raymond Reede	1-9-87

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

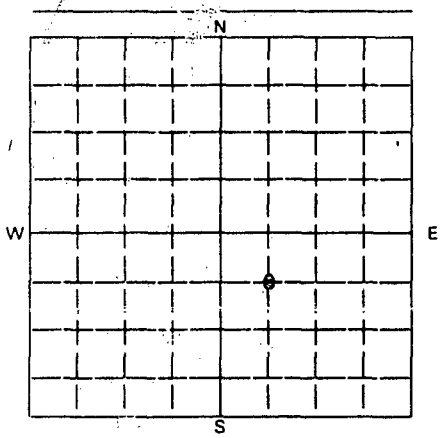
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER
Murphy Oil USA, Inc. P.O. Box 547 Poplar, MT 59255	Zimmerman Inc. P.O. Box 277 Poplar, MT 59255

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MTS21PE-0024

SURFACE LOCATION DESCRIPTION

NW ¼ OF SE ¼ OF 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

RECEIVED
SEP 3 1985
EPA REGION VIII
DRINKING WATER BRANCH

WELL ACTIVITY

- ☒ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells 1

Lease Name East Poplar Unit Well Number 8-D

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
8-84	650	650	207,314		0	0
9-84	650	650	200,712		0	0
10-84	650	650	203,986		0	0
11-84	650	650	158,424		0	0
12-84	650	650	171,248		0	0
1-85	650	650	147,726		0	0
2-85	650	650	160,095		0	0
3-85	650	650	194,766		0	0
4-85	650	650	185,345		0	0
5-85	650	650	191,423		0	0
6-85	650	650	178,196		0	0
7-85	650	650	164,935		0	0

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 Superintendent	Raymond Reede	8-27-85

EPA Form 7520-11 (2-84)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

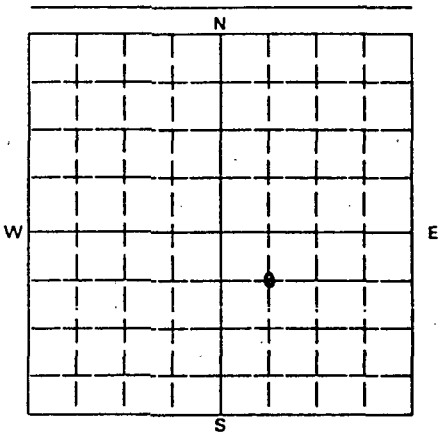
EPA

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER
Murphy Oil USA, Inc. P.O. Box 547 Poplar, MT 59255	Zimmerman Inc. P.O. Box 277 Poplar, MT 59255

MT00023

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MTS21PE-0024

SURFACE LOCATION DESCRIPTION

NW ¼ OF SE ¼ OF 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

RECEIVED
OCT 3 1985
EPA REGION VIII
DRINKING WATER BRANCH

WELL ACTIVITY

- ☒ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells 1

Lease Name East Poplar Unit Well Number 8-D

	INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
8-84	650	650	207,314		0	0
9-84	650	650	200,712		0	0
10-84	650	650	203,986		0	0
11-84	650	650	158,424		0	0
12-84	650	650	171,248		0	0
1-85	650	650	147,726		0	0
2-85	650	650	160,095		0	0
3-85	650	650	194,766		0	0
4-85	650	650	185,345		0	0
5-85	650	650	191,423		0	0
6-85	650	650	178,196		0	0
7-85	650	650	164,935		0	0

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 Superintendent	Raymond Reede	8-27-85

EPA Form 7520-11 (2-84)

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

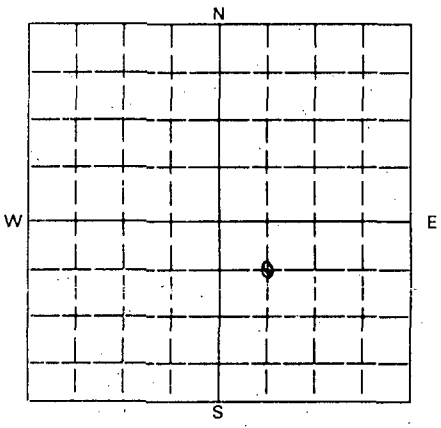
ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

0023

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.
Box 277
Poplar, MT 59255

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
MT	Roosevelt	MTS21PE - 0023

SURFACE LOCATION DESCRIPTION
NW ¼ OF SE ¼ OF 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 1

Lease Name East Poplar Unit Well Number 8-D

	INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
1 - 85	650	650	147,726	0	0	0
2 - 85	650	650	160,095	0	0	0
3 - 85	650	650	194,766	0	0	0
4 - 85	650	650	185,345	0	0	0
5 - 85	650	650	191,423	0	0	0
6 - 85	650	650	178,196	0	0	0
7 - 85	650	650	164,935	0	0	0
8 - 85	650	650	169,684	0	0	0
9 - 85	650	650	149,661	0	0	0
10 - 85	680	680	184,668	0	0	0
11 - 85	680	680	166,340	0	0	0
12 - 85	680	680	176,747	0	0	0

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 Superintendent	Raymond Reede	1-22-86

EPA Form 7520-11 (2-84)