

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
 [DD-Directional Drilling] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A.]

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

4/14/97
 SWD Application
 filed 3/25/97. Please
 see attached for
 Legal Advertisement.
 Thanks
 D. Stewart

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner - Legal Advertisement

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity

Richard E. Foppiano PE
 Print or Type Name

Richard E. Foppiano
 Signature

Regulatory Affairs Advisor
 Title

3/25/97
 Date

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs Daily News-Sun, a
daily newspaper published at
Hobbs, New Mexico, do solemnly
swear that the clipping attached
hereto was published once a
week in the regular and entire
issue of said paper, and not a
supplement thereof for a period.

of 1
_____ weeks.
Beginning with the issue dated

March 24, 1997
and ending with the issue dated


March 24, 1997


Publisher

Sworn and subscribed to before

me this 26th day of

March, 1997


Notary Public.

My Commision expires
October 18, 2000
(Seal)

This newspaper is duly qualified
to publish legal notices or adver-
tisements within the meaning of
Section 3, Chapter 167, Laws of
1937, and payment of fees for
said publication has been made.

LEGAL NOTICE

March 24, 1997

NOTICE OF APPLICATION
FOR FLUID DISPOSAL

APPLICANT:

OXY USA INC.
P.O. BOX 50250
MIDLAND, TX 79710-0250
ATTN: DAVID STEWART
(915)685-5717

PURPOSE - WELL:

DISPOSAL OF PRODUCED
SALT WATER INTO A ZONE
NOT PRODUCTIVE OF OIL
& GAS STATE DW #4
1880 FNL 1980 FWL (F) S12
T18S R33E

FORMATION:

DELAWARE - 6020-6452'
MAXIMUM INJECTION RATE
- 4000 BHPD
MAXIMUM INJECTION
PRESSURE - 1800 PSI
INTERESTED PARTIES
MUST FILE OBJECTIONS
OR REQUESTS FOR HEAR-
ING WITH THE NEW MEXI-
CO OIL CONSERVATION DI-
VISION, 2040 S. PACHECO,
SANTA FE, NM 87505,
WITHIN 15 DAYS OF THIS
PUBLICATION.
#15106

01101573000

01506604

Oxy USA Inc.
P.O. Box 50250
a/c 456090
Midland, TX 79710-0250

3/27/97 - 4/11/97 - BS - RV - SWD

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling
☐ NSL ☐ NSP ☐ DD ☐ SD

MAR 27 1997

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner - Legal Advertisement

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U. S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

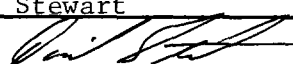
Richard E. Foppiano PE
Print or Type Name

Richard E. Foppiano
Signature

Regulatory Affairs Advisor
Title

3/25/97
Date

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: OXY USA Inc. - 16696
Address: P.O. Box 50250 Midland, TX 79710-0250
Contact party: David Stewart Phone: 915-685-5717
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project SWD-287
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: David Stewart Title: Regulatory Analyst
Signature:  Date: 3/25/97
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

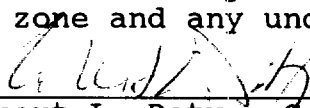
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

ATTACHMENT C-108
OXY USA Inc.
State DW #4
Sec 12 T18S R33E

- V. See Attachment A
- VI. See Attachment B
- VII. Proposed Operations
1. Injection Rate -
Average 1000BWPD Maximum 4000BWPD
 2. Closed System
 3. Injection Pressure:
Average 1200PSI Maximum 1800PSI
 4. N/A
 5. See Attachment C for copy of Delaware water analysis.
- VIII. Geological Data
See Attachment D for a copy of the Delaware log interval
Lithology: Sandstone
Injection Zone: Delaware
Thickness: 460'
Depth: 6460'
Depth of Bottom of Deepest Fresh Water Zone: Unknown per the State Engineer's Office
- IX. Proposed Stimulation Program
3000 gal 7-1/2% HCL acid.
- X. Well logs on file.
NMOCD Potential Test 10/27/84 - 36-BO 28-BLW 44-MCFD
Converted to SWD - 7/30/85
- XI. Water Analysis from stock well located in the SE-SE Qtr Sec 12 T18S R33E. Per the State Engineer's Office, the TD was 32' and it has been out of use since 1988 and no other fresh water wells are located within 1 mile of the State DW #4. - See Attachment E
- XII. I have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- 
Robert L. Doty - Geologist
- XIII. We have examined the 1/2 mile area of review and determined that OXY is the only operator within 1/2 mile of the subject well. Notice has been given to the surface owner.
Mississippi Acquisition II Inc.
Attn.: Randy Foote
P.O. Box 101
Carlsbad, NM 88220

The legal advertisement has been requested and proof of publication will be forwarded as soon as it is received.

INJECTION WELL DATA SHEET

OXY USA Inc.

State DW - 008656

OPERATOR

LEASE

4

1880 FNL 1980 FWL

E - 12

18S

33E

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

Schematic

SEE OTHER SIDE

Tabular DataSurface CasingSize 13-3/8 " Cemented with 500 sx.TOC Surface feet determined by CirculatedHole size 17-1/2"Intermediate CasingSize 8-5/8 " Cemented with 1500 sx.TOC Surface feet determined by CirculatedHole size 11"Long stringSize 5-1/2 " Cemented with 1925 sx.TOC 4014' feet determined by CBLHole size 7-7/8"

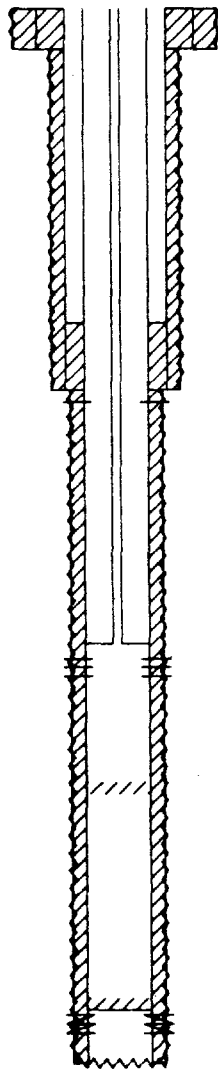
Total depth

Injection interval6020 feet to 6452 feet
(perforated or open-hole, indicate which)Tubing size 2-7/8" lined with plastic set in a
(material)Baker Loc-Set packer at + 5920 feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data1. Name of the injection formation Delaware2. Name of Field or Pool (if applicable) N/A3. Is this a new well drilled for injection? ☐ Yes ☒ NoIf no, for what purpose was the well originally drilled? Bone Springs oil wellCurrently San Andres SWD4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Bone Springs (8636-8800')Set CIBP @ 8600' w/ 10sx cmt to 8500'; 10sx cmt plug from 6745-6645'; Yates (3345-3385') sqz w/ 200sx cmt; San Andres (5546-5730') will be cmt sqz.5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Yates - 3235' Queen - 4376' San Andres - 5114' Bone Springs - 6680'

OXY USA INC.
STATE DW #4 (CURRENT)
SEC 12 T18S R33E LEA CTY



0.0 - 350.0' 17 1/2" OD HOLE
0.0 - 350.0' CEMENT
0.0 - 350.0' 13 3/8" OD SURF CSG

350.0 - 3275.0' 11" OD HOLE
0.0 - 3275.0' CEMENT
0.0 - 3275.0' 8 5/8" OD INT CSG

3345.0 - 3385.0' SQUEEZE PERFS

0.0 - 5453.0' 2.375" OD TBC
5450.0 - 5453.0' RETRY. PACKER

5546.0 - 5730.0' PERFS

6645.0 - 6745.0' CEMENT PLUG

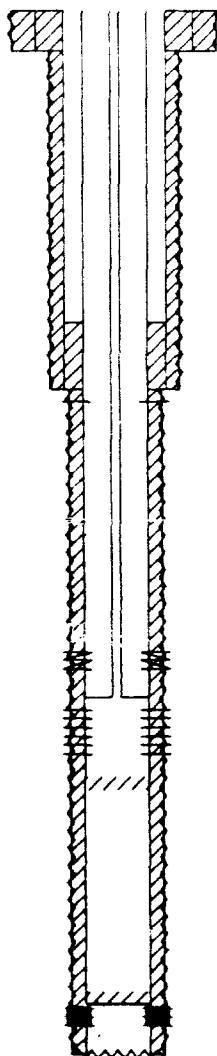
3275.0 - 9050.0' 7 7/8" OD HOLE
2700.0 - 9050.0' CEMENT
0.0 - 9050.0' 5 1/2" OD PROD CSG

8500.0 - 8600.0' CEMENT PLUG
8600.0 - 8600.0' CBP

8635.0 - 8800.0' SQUEEZE PERFS

TD: 9050'

OXY USA INC.
STATE DW #4 (PROPOSED)
SEC 12 T18S R33E LEA CTY



0.0 - 350.0' 17 1/2" OD HOLE
0.0 - 350.0' CEMENT 500sx
0.0 - 350.0' 13 3/8" OD SURF CSG

350.0 - 3275.0' 11" OD HOLE
0.0 - 3275.0' CEMENT 1500sx
0.0 - 3275.0' 8 5/8" OD INT CSG

3345.0 - 3385.0' SQUEEZE PERFS 200sx

0.0 - 5970.0' 2.375" OD TBC
5967.0 - 5970.0' RETRY. PACKER

5546.0 - 5730.0' SQUEEZE PERFS 100sx

6645.0 - 6745.0' CEMENT PLUG 10sx

6020.0 - 6452.0' PERFS

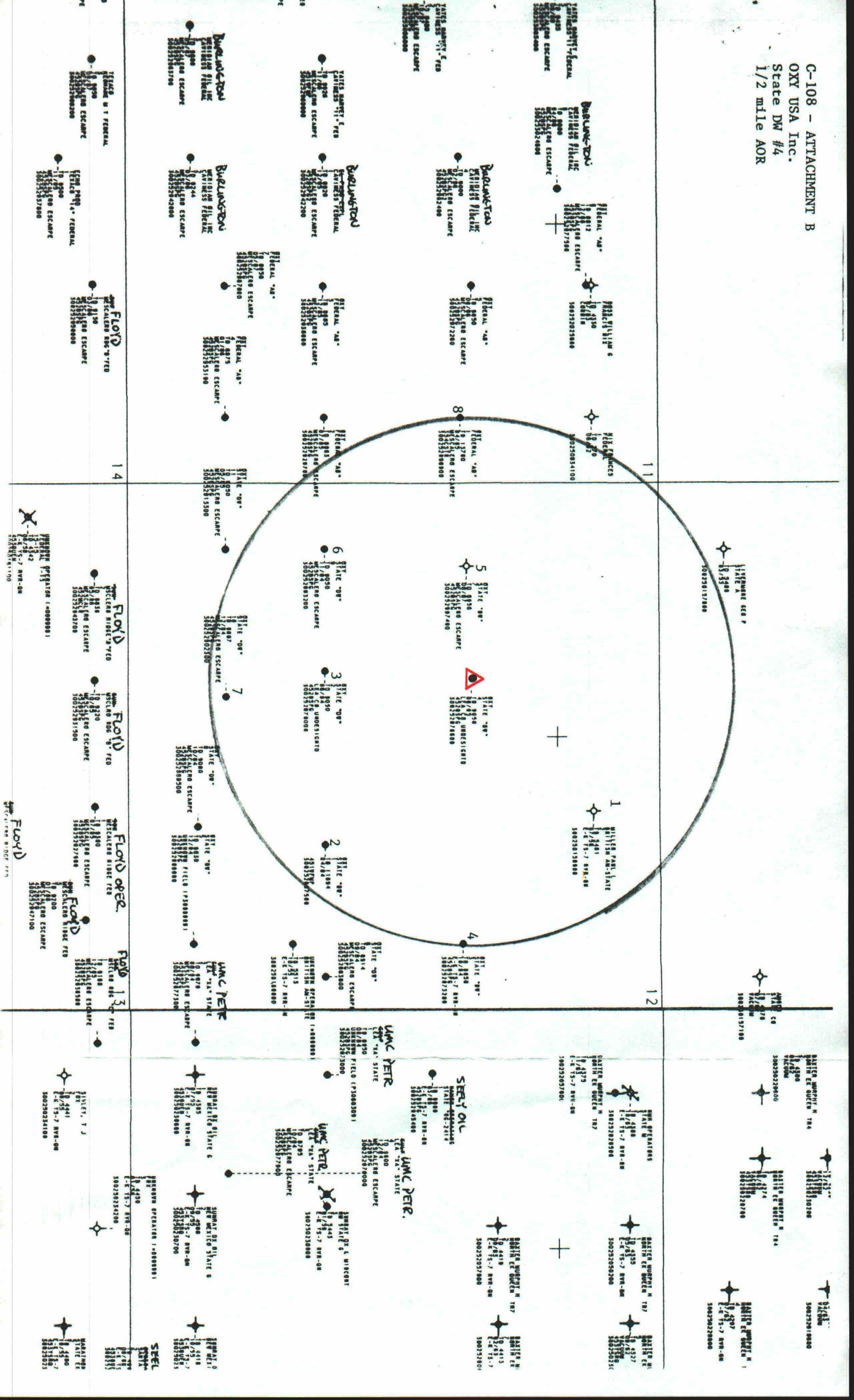
8500.0 - 8600.0' CEMENT PLUG 10sx
8600.0' CBP

3275.0 - 9050.0' 7 7/8" OD HOLE
2700.0 - 9050.0' CEMENT 1925sx
0.0 - 9050.0' 5 1/2" OD PROD CSG

8635.0 - 8800.0' ABANDONED PERFS

TD: 9050'

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE



**C-108 - ATTACHMENT B
STATE DW #4
AREA OF REVIEW**

OPERATOR	LEASE	PLAT	WELL NO.	LOCATION	DATE DRILLED	DEPTH	PERFS	CASING-CEMENT	STATUS	API NO.
OXY USA INC.	STATE DW		4	1880 FNL 1980 FWL	6/28/84	9050	5546-5730	13-3/8 @ 350 w/ 500sx	ACTIVE	28766
				S12 T18S R33E		PB-6645		8-5/8 @ 3275 w/ 1500sx	SAN ANDRES	
								5-1/2 @ 9050 w/ 1925sx		
MILLER	BRITISH-AM-STATE	1	2	660 FNL 1980 FEL	7/17/56	5487	----	8-5/8" @ 213 w/ 175sx	P&A	01599
				S12 T18S R33E						
OXY USA INC	STATE DW	2	1	1980 FSL 1650 FEL	1/31/84	11094	8661-8883	13-3/8 @ 500 w/ 600sx	ACTIVE	28575
				S12 T18S R33E		PB-9863		8-5/8 @ 5283 w/ 4105sx	BONE SPRINGS	
								5-1/2 @ 10866 w/ 950sx		
"	"	3	2	1980 FSL 1880 FWL	5/2/84	9050	8760-8820	13-3/8 @ 362 w/ 375sx	ACTIVE	28700
				S12 T18S R33E		PB-9006		8-5/8 @ 3255 w/ 850sx	BONE SPRINGS	
								5-1/2 @ 9050 w/ 2000sx		
"	"	4	3	1980 FNL 660 FEL	6/1/84	8950	3342-3379	13-3/8 @ 350 w/ 500sx	ACTIVE	28732
				S12 T18S R33E		PB-3400		8-5/8 @ 3304 w/ 1300sx	YATES	
								5-1/2 @ 8949 w/ 1900sx		
"	"	5	7	1930 FNL 835 FWL	7/29/87	8950	----	13-3/8 @ 367 w/ 500sx	P&A	29974
				S12 T18S R33E				8-5/8 @ 3170 w/ 1300sx		
"	"	6	9	1980 FSL 660 FWL	10/14/84	9050	8662-8830	13-3/8 @ 344 w/ 500sx	ACTIVE	28932
				S12 T18S R33E		PB-8999		8-5/8 @ 3141 w/ 1300sx	BONE SPRINGS	
								5-1/2 @ 9048 w/ 1615sx		
"	"	7	10	990 FSL 2130 FWL	11/12/84	9097	8708-8836	13-3/8 @ 350 w/ 500sx	ACTIVE	29023
				S12 T18S R33E		PB-9047		8-5/8 @ 3150 w/ 1300sx	BONE SPRINGS	
								5-1/2 @ 9097 w/ 1245sx		
"	FEDERAL AB	8	1	1980 FNL 660 FEL	10/19/84	13780	8342-8685	13-3/8 @ 356 w/ 500sx	ACTIVE	28989
				S11 T18S R33E		PB-9757		9-5/8 @ 5300 w/ 2400sx	BONE SPRINGS	
								5-1/2 @ 13779 w/ 3165sx		

**C-108 - ATTACHMENT B
STATE DW #4
PLUGGING INFO.**

[illegible]

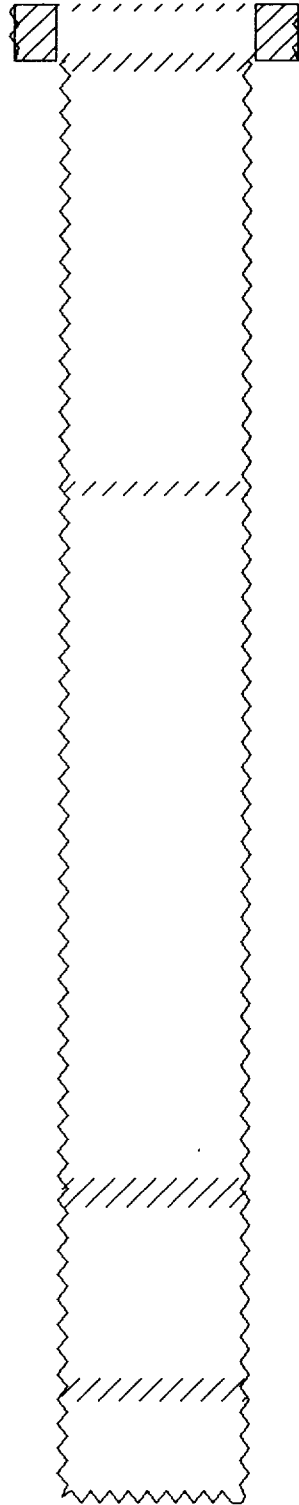
MILLER DRILLING
BRITISH AM STATE #2
SEC 12 T18S R33E LEA CTY

0.0 - 25.0' CEMENT PLUG
190.0 - 213.0' CEMENT PLUG
213.0 - 250.0' CEMENT PLUG

1750.0 - 1800.0' CEMENT PLUG

4320.0 - 4420.0' CEMENT PLUG

5050.0 - 5130.0' CEMENT PLUG

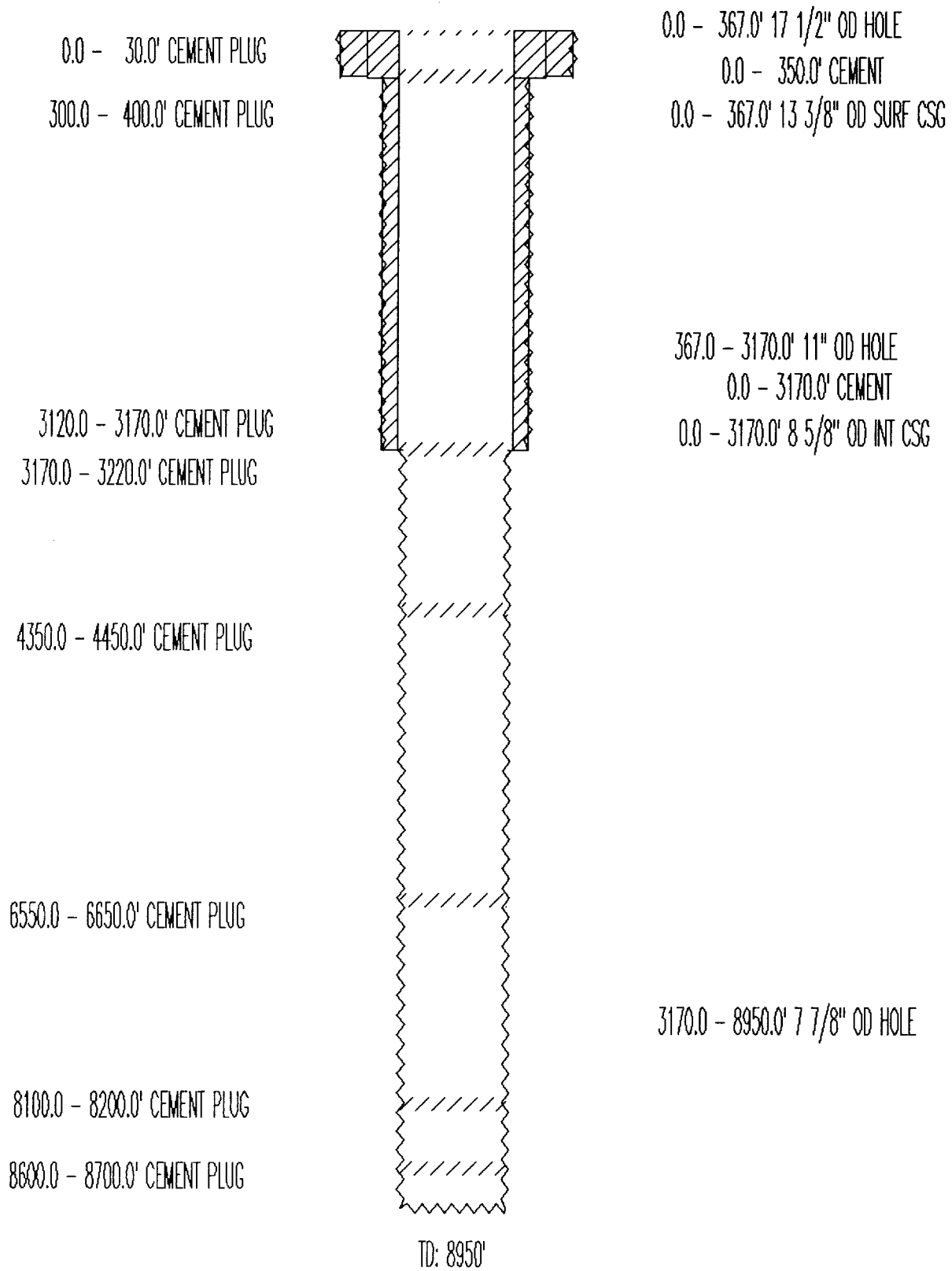


TD: 5487'

0.0 - 213.0' 12 1/4" OD HOLE
0.0 - 213.0' CEMENT
0.0 - 213.0' 8 5/8" OD SURF CSG

213.0 - 5487.0' 7 7/8" OD HOLE

OXY USA INC.
STATE DW #7
SEC 12 T18S R33E LEA CTY



Champion
Technologies, Inc.
Committed To Improvement

Water Analysis Report

Customer: Meridian Oil, Inc.

5/1/96

Address: 2626 West Marland

City: Hobbs

State: NM

Zip: 88240-

Attention: Steve Blevins

Date Sampled: 4/29/96

CC1: Marc Farris

Date Received: 4/30/96

CC2:

SALESMAN NAME: Kenny Kearney

LEASE: East Corbin Del. Unit

SAMPLE POINT: East Corbin Del. Unit #6

WELL: East Corbin Del. Unit #6

REMARKS:

CHLORIDE: 127000

SULFATE: 1297

BICARBONATE: 195

CALCIUM: 11829

MAGNESIUM: 3523

IRON: 0

BARIUM:

STRONTIUM:

MEASURED pH: 6.2

TEMPERATURE: 86

DISSOLVED CO2: 364

MOLE PERCENT CO2 IN GAS:

DISSOLVED H2S: 30.0

PRESSURE (PSIA): 100

SODIUM (PPM): 62821

IONIC STRENGTH: 3.61

CALCITE (CaCO3) SI: -0.55

CALCITE PTB: N/A

GYPSUM (CaSO4) SI: 0.03

GYPSUM PTB: 43.2

BARITE (BaSO4) SI: N/A

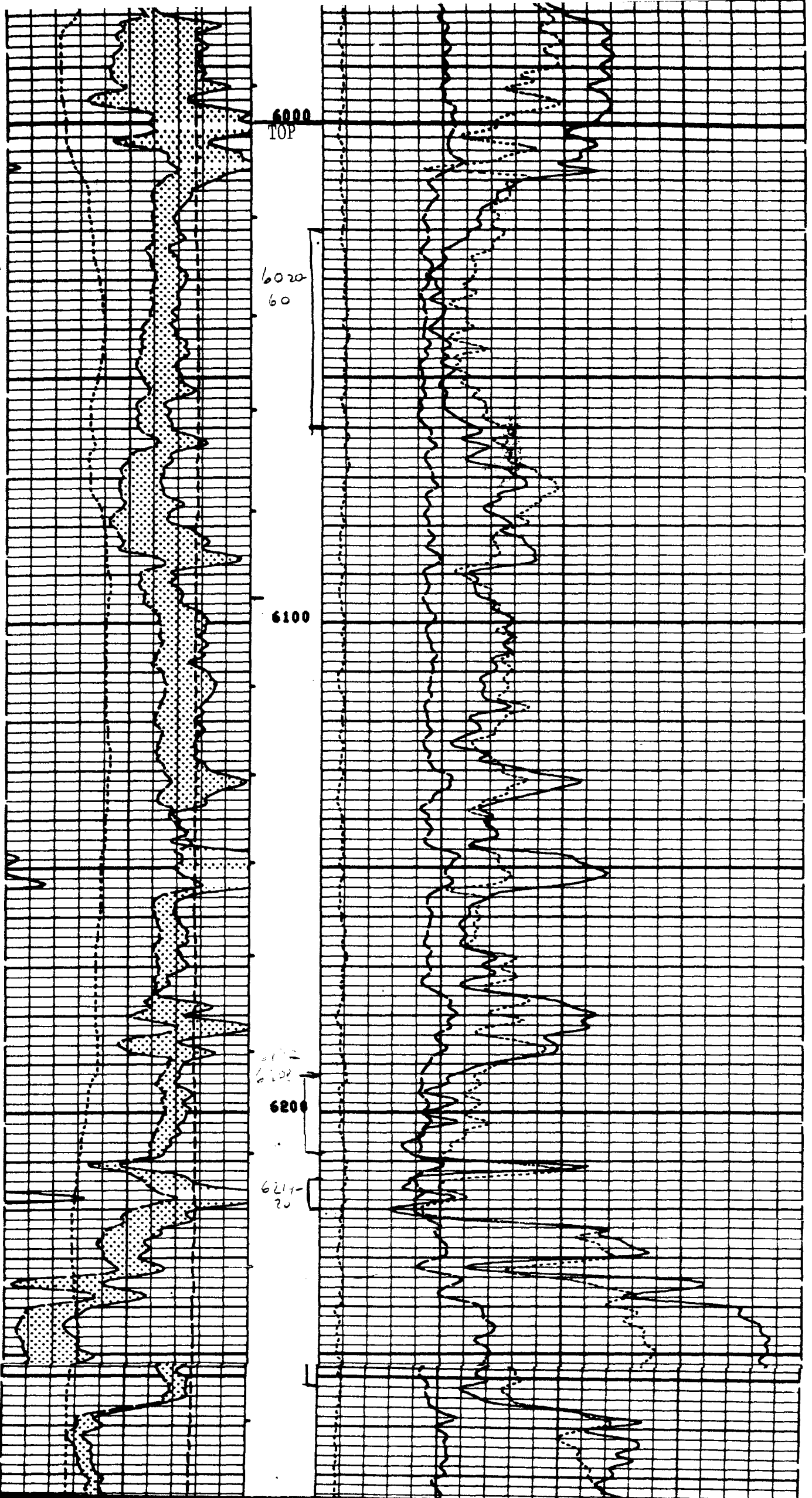
BARITE PTB: N/A

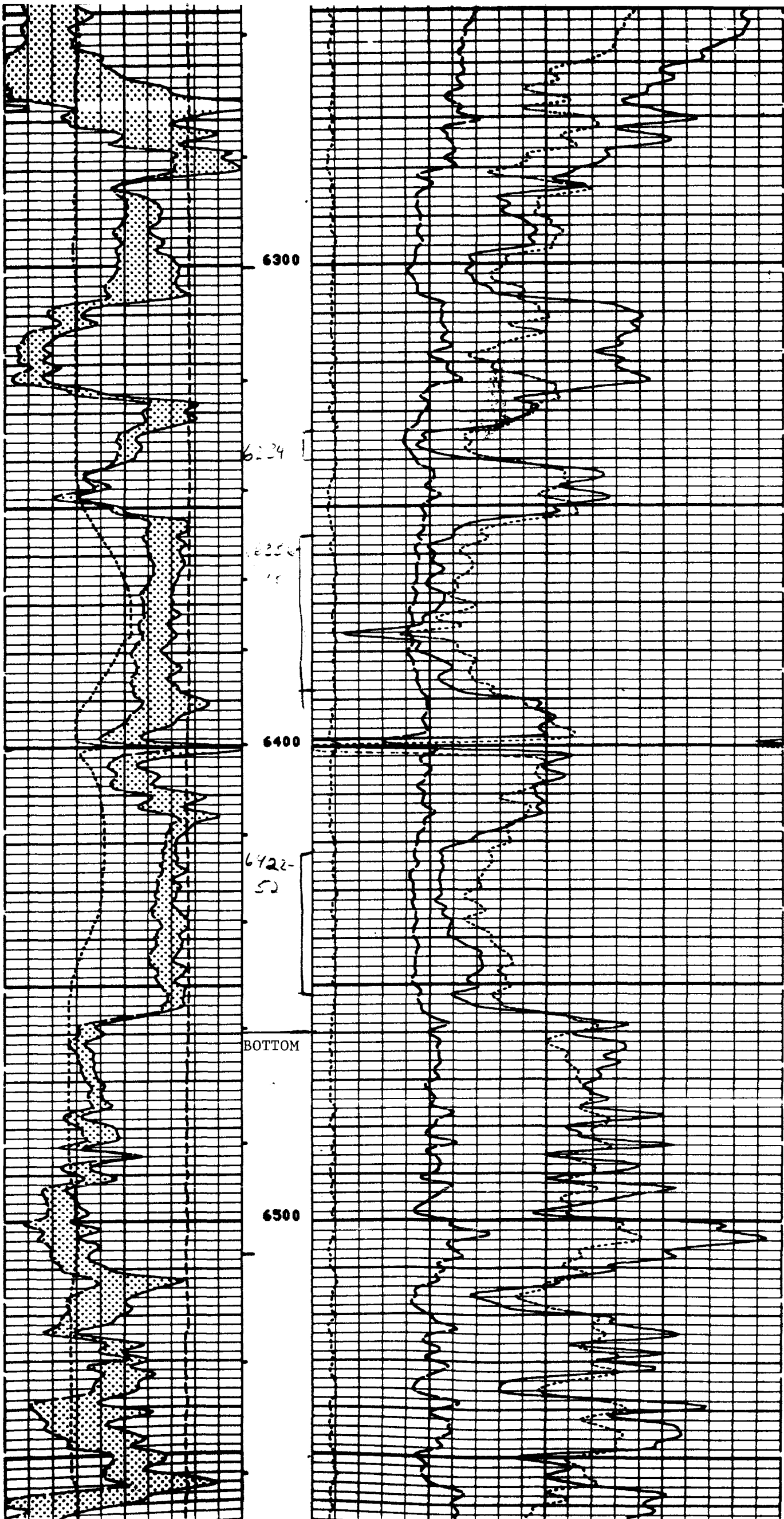
CELESTITE (SrSO4) SI: N/A

CELESTITE PTB: N/A

SI calculations based on Tomson-Oddo

Joy Duncan





P O BOX 1468
MONAHAN TEXAS 79756
PH 943-3234 OR 583-1040

Martin Water Laboratories, Inc.

C-108 - ATTACHMENT E
OXY USA Inc.
STATE DW #4
Fresh Water Analysis

700 W INDIANA
MIDLAND TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Ms. Rebecca Egg LABORATORY NO. 58558
P.O.Box 1919, Midland, Texas SAMPLE RECEIVED 5-9-85
RESULTS REPORTED 5-10-85

COMPANY Cities Services Oil & Gas Company LEASE State "DW"

FIELD OR POOL _____

SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN

NO. 1 Raw water - taken from Hackberry Windmill. 5-8-85

NO. 2 _____

NO. 3 _____

NO. 4 _____

REMARKS: _____

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0010			
pH When Sampled				
pH When Received	7.55			
Bicarbonate as HCO ₃	205			
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	176			
Calcium as Ca	62			
Magnesium as Mg	5			
Sodium and/or Potassium	15			
Sulfate as SO ₄	15			
Chloride as Cl	17			
Iron as Fe	0.09			
Barium as Ba				
Turbidity - Electric				
Color as Pt				
Total Solids - Calculated	319			
Temperature - F				
Carbon Dioxide - Calculated				
Dissolved Oxygen - Winkler				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	31.00			
Suspended Solids				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Fresh Water Analysis
From: Hackberry Windmill
Approx 1056' FSL, 634' FEL
Sec 12-18S-33E

NOTICE OF APPLICATION FOR FLUID DISPOSAL

APPLICANT:

OXY USA Inc.
P.O. BOX 50250
MIDLAND, TX 79710-0250
ATTN: DAVID STEWART
915-685-5717

PURPOSE - WELL:

DISPOSAL OF PRODUCED SALT WATER
INTO A ZONE NOT PRODUCTIVE OF OIL & GAS
STATE DW #4
1880 FNL 1980 FWL (F) S12 T18S R33E

FORMATION:

DELAWARE - 6020-6452'
MAXIMUM INJECTION RATE - 4000BWPD
MAXIMUM INJECTION PRESSURE - 1800PSI

INTERESTED PARTIES MUST FILE OBJECTIONS
OR REQUESTS FOR HEARING WITH THE
NEW MEXICO OIL CONSERVATION DIVISION,
2040 S. PACHECO, SANTA FE, NM 87505,
WITHIN 15 DAYS OF THIS PUBLICATION.

 *** TX REPORT ***

TRANSMISSION OK

TX/RX NO	1460
CONNECTION TEL	915053935724
SUBADDRESS	
CONNECTION ID	
ST. TIME	03/21 11:52
USAGE T	00'53
PGS.	2
RESULT	OK



FACSIMILE COVER SHEET

DATE 3/21/97

TO: <u>Jessica</u>		FROM: <u>David Stewart</u>	
COMPANY: <u>Hobbs Daily News-Sun</u>		COMPANY: <u>OXY USA Inc.</u>	
LOCATION: <u>Hobbs</u>		LOCATION: <u>Midland, TX</u>	
FAX # <u>905-593-5724</u>	TELEPHONE # <u>905-593-2123</u>	FAX # <u>915-685-5742</u>	TELEPHONE # <u>915-685-5717</u>
COMMENTS:			
<u>Please publish the attached notice ASAP and return</u>			
<u>the clipping, sworn affidavit & the bill to my attention.</u>			
<u>Thanks</u>			
<u>DS</u>			

 NUMBER OF PAGES (INCLUDING THE COVER) 2
 PLEASE NUMBER ALL PAGES

IF YOU DID NOT RECEIVE A PAGE(S), OR THE DOCUMENTS ARE NOT LEGIBLE, PLEASE CALL THE VERIFICATION NUMBER BELOW WITHIN 15 MINUTES AFTER RECEIPT OF TRANSMISSION. IF YOU DO NOT CALL WE WILL ASSUME YOU RECEIVED THE PAGES SATISFACTORILY.

 FACSIMILE
 NUMBER 915-685-5717

 VERIFICATION
 NUMBER _____