

6/09/2016 mmm 6/09/2016 SWD P m Am 1616155133

DATE:	SUBJECT:	ENGINEER:	LOGGED IN:	TYPE:	APP NO:
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REMOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -  
1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Protraction Unit] [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]

Acquid  
6-09-2016

SWD-1635  
Membourne Oil Co  
14744  
WCU  
- Red Hills SWD# 2  
30-025-pending  
Pool  
SWD, Devonian-  
Silurian  
97869

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  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
- [D] Other: Specify \_\_\_\_\_
- [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
- [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] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Timothy R. Harrington      Timothy R. Harrington      Roseanna      6/7/16  
 Print or Type Name      Signature      Title      Date  
 Harrington@membourne.com  
 e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?  Yes \_\_\_\_\_ No
- II. OPERATOR: Mewbourne Oil Company  
ADDRESS: 3620 Old Bullard Road  
Tyler, TX 79701  
CONTACT PARTY: Tim Harrington . PHONE: 903-534-7647
- 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: \_\_\_\_\_
- 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: Tim Harrington

TITLE: Reservoir Engineer

SIGNATURE: Tim R. Harrington

DATE: 6/07/16

E-MAIL ADDRESS: tharrington@mewbourne.com

- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

Side 2

### 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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, 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.



**INJECTION WELL DATA SHEET**

Tubing Size: 4 1/2" 12.75# 13CR-HP1-110 Lining Material: None

Type of Packer: Model R (nickel plated)

Packer Setting Depth: +/- 17,230'

Other Type of Tubing/Casing Seal (if applicable): N/A

**Additional Data**

1. Is this a new well drilled for injection? Yes

If no, for what purpose was the well originally drilled?

2. Name of the Injection Formation: Devonian, Fusselman, Montoya and Simpson - Open Hole Completion

3. Name of Field or Pool (if applicable): 98109 SWD; DEV-FUS-MON-SIMP

4. Has the well ever been perforated in any other zone(s)? No. This is a new drill.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Overlying producing zone(s) – Avalon Shale (8,500'), 2<sup>nd</sup> Bone Spring (10,100'), 3<sup>rd</sup> Bone Spring (11,300'), Wolfcamp (11,650') & Morrow (15,550'),

Underlying producing zone – N/A

Mewbourne Oil Company

Well Name: Red Hills SWD #2  
Spud: 2016

Last Updated by: A. Taylor on 5/31/2016

20" 94 & 106.5# J-55 BTC  
Set @ 1100'  
Cmt w/ 1640 sx

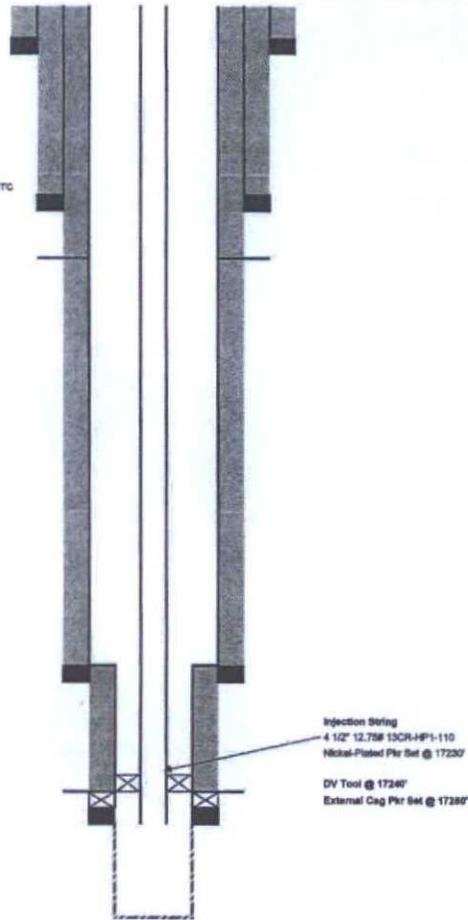
13 3/8" 54.5 & 61# J-55 & 60# HCL80 BTC  
Set @ 4279'  
Cmt w/ 2040 sx

DV Tool @ 4400'  
Cmt 2nd slg w/ 1016 sx

9 5/8" 40, 43.5 & 47# HCL80 LTC  
Set @ 11890'  
Cmt 1st slg w/ 1526 sx

7" 29 & 32# HCL-80 LTC Liner  
Set from 11480'-17300'  
Cmt w/ 826 sx

8" Open Hole  
TD @ 18380'



C-108 Application for Authorization to Inject - Red Hills SWD #2

RED HILLS SWD #2  
 Unit M, Sec 8, T26S R 32E  
 Lea County, NM

- V. Maps are attached
- VI. There are no wells with the ½ mile radius area of review that penetrate the proposed disposal zone. A tabulation of wells within the radius of review has been attached.
- VII.
  1. Proposed average daily injection rate = 10,000 Bwpd  
 Proposed maximum daily injection rate = 25,000 Bwpd
  2. Closed system
  3. Proposed maximum injection pressure = 3,460 psi (0.2 psi/ft x 17,300 ft = 3,460 psi)
  4. Source of injected water will be produced water from MOC operated wells completed in the Avalon and Wolfcamp. Analysis of Avalon and Wolfcamp waters from analogous source wells are attached.
  5. We will be injecting into the Devonian, Fusselman, Montoya and Simpson formations. Devonian formation water is known to be compatible with the formation water of the Avalon and Wolfcamp; however, a Devonian water analysis from the immediate area is unavailable. The following data is the closest produced water analysis that is available on the USGS website:

WELLS	BOREHOLE	DATE	FORMATION	DEPTH (FEET)	TEMPERATURE (°F)	PH	TDS (MG/L)	ANION	CATION	FIELD	WELL NAME	OPERATOR
32753	3260719	1/16/2011	Devonian	14078	164.0	7.286	1.286	1.286	0.267	77	6.6	12826

- VIII.
  1. The proposed injection interval is comprised of the Devonian, Fusselman, Montoya and Simpson formations from 17300' –19350'. It is estimated that the base of the injection interval should be approximately 450' above the top of the Ellenburger.

Other Projected Formation Tops:

Mississippian	16,850'
Woodford	17,170'
Devonian	17,300'
Simpson	19,300'
<b>EST TOTAL DEPTH</b>	<b>19,350'</b>
Ellenburger	19,800'

- 2. The underground fresh water aquifers (unnamed) are present at shallow depths <646'. There are no known fresh water intervals underlying the injection formation.
- IX. The injection interval will be acidized with approximately 30,000 gallons of 15% HCl acid.

C-108 Application for Authorization to Inject - Red Hills SWD #2

- X. A gamma-ray neutron log will be run from TD to surface and filed with the Division.
- XI. There are no fresh water wells of record, at the NM State Engineers Office, within one mile of the proposed SWD well. Water samples caught at the Baker Ranch in S-6, T-26S, R-32E or S-1, T-26S, R-31E have been attached.
- XII. Mewbourne Oil Company has examined geologic and engineering data and has found that there is no evidence of faulting between the proposed disposal zone and any underground sources of drinking water. A signed affidavit has been attached.
- XIII. Proof of Notice is attached.

**District I**  
 1511 N. Lincoln Dr., Hobbs, NM 88240  
 Phone: (505) 993-4161 Fax: (505) 993-0720  
**District II**  
 611 S. Paul St., Artesia, NM 88210  
 Phone: (505) 748-1231 Fax: (505) 748-4720  
**District III**  
 1600 Rio Bruma Road, Arroyo, NM 87419  
 Phone: (505) 334-6178 Fax: (505) 334-6170  
**District IV**  
 1720 S. W. Franklin Dr., Sandoz, NM 88401  
 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
 Energy, Minerals & Natural Resources Department  
 OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

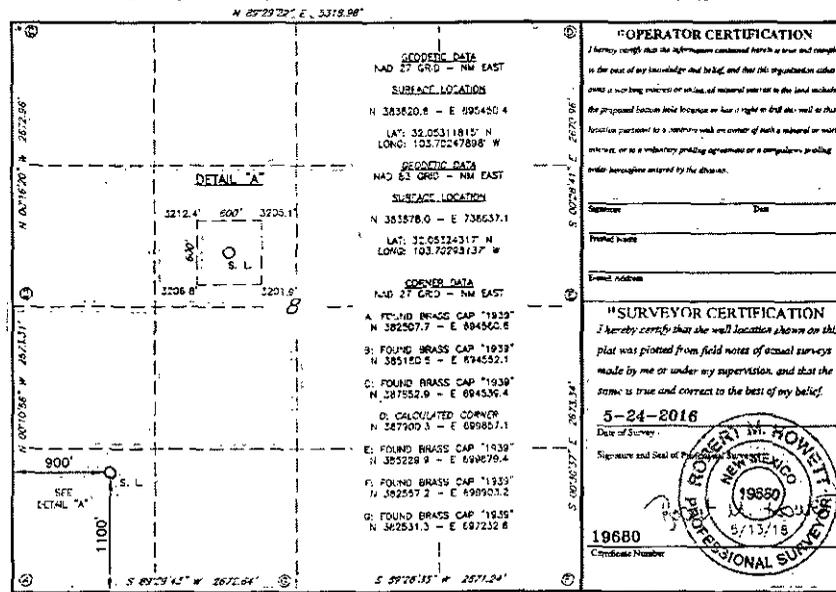
Form C-102  
 Revised August 1, 2011  
 Submit one copy to appropriate  
 District Office

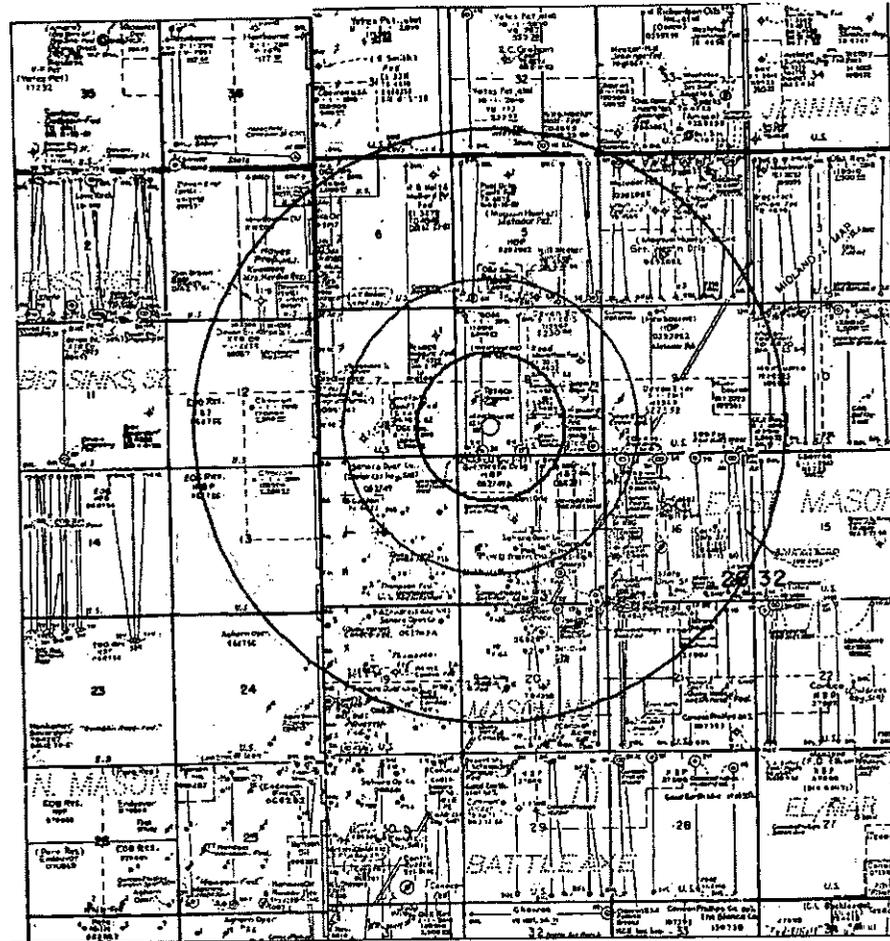
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 APT. Number		2 Pool Code		3 Pool Name			
4 Property Code		5 Property Name <b>RED HILLS SWD</b>			6 Well Number <b>2</b>		
7 GRID NO.		8 Operator Name <b>MEWBOURNE OIL COMPANY</b>			9 Elevation <b>3208'</b>		
10 Surface Location							
11 U. or lot no.	Section	Township	Range	Lot No.	Feet from the North/South line	Feet from the East/West line	County
<b>M</b>	<b>B</b>	<b>26S</b>	<b>32E</b>	<b>1100</b>	<b>SOUTH</b>	<b>900</b>	<b>WEST</b> <b>LEA</b>
12 Bottom Hole Location if Different From Surface							
13 U. or lot no.	Section	Township	Range	Lot No.	Feet from the North/South line	Feet from the East/West line	County
14 Dedication Acres		15 Area or Initial	16 Consolidation Code	17 Other No.			

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

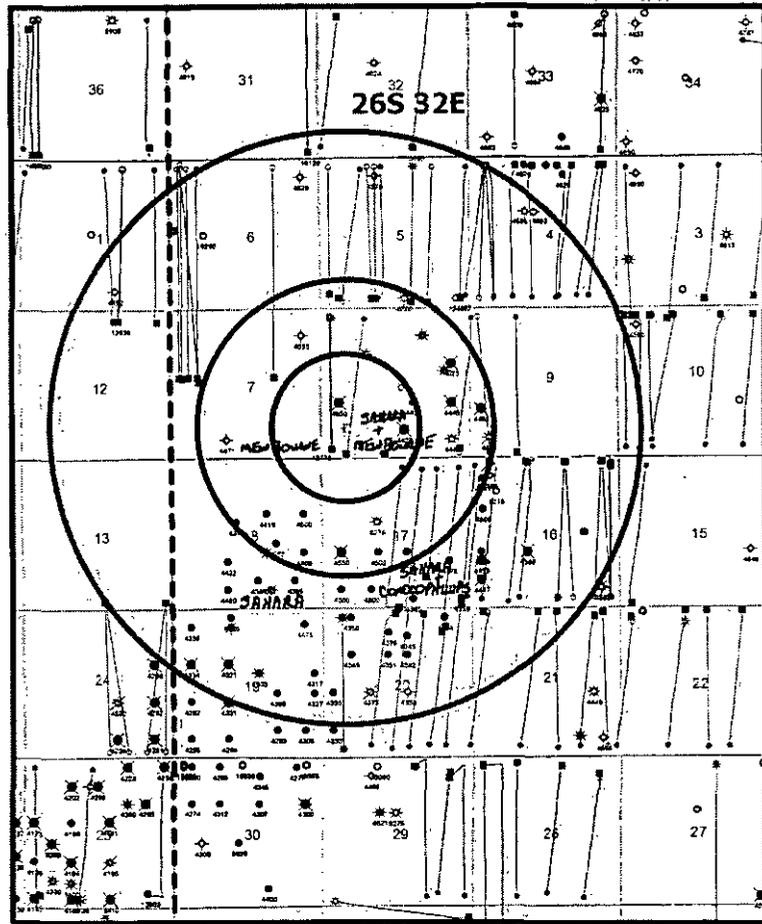




1 inch = 4,000 feet

-  1/4 MILE AREA OF REVIEW
-  1/2 MILE AREA OF REVIEW
-  1 MILE AREA OF REVIEW

 <b>Mewbourne Oil Company</b>	
RED HILLS WEST SWD #2 APPLICATION 15S - 32E SEC. 8 LEA, NEW MEXICO	
Author: JL	Date: 4 Mar. 2016



- 1/4 MILE AREA OF REVIEW
- 1 MILE AREA OF REVIEW
- 2 MILE AREA OF REVIEW

● DOCUMENTED FRESH WATER WELLS  
FROM NEW MEXICO OFFICE OF STATE  
ENGINEER



<b>Mewbourne Oil Company</b>		
RED HILLS WEST SWD #2		
SEC 2 - 36S 32E		
T26S R32E		
LEA, NEW MEXICO		
Drawn	Checked	Date
W. D. ...	...	27. Mar. 2016
Scale	Project	

MEWBORNE OIL COMPANY  
 RED HILLS SWD #2 PERMIT APPLICATION  
 TABULATION OF WELLS WITHIN 1/2 MILE RADIUS

TOP DISPOSAL INTERVAL 17300 FT TVD

Well	Direction	API	Lease Name	WML Num	Operator Name	Current Operator	Sec	Trap	Age	Package	Current Status	Final Phase	SP Prod Form Name	TVD	Offset Td	Prod Depth	Prod Form	Permit Date	Spud Date	Comp Date
V		10025177200000	AMOCO FEDERAL	1	LYCO ENERGY CORP	SAHARA OPERAT W D CO	8	255	232	2004 FSL 2004 FSL CONGRESS SECTION	PRODUCING	ON	DELAWARE	6435	6425	4500	DELAWARE	1984-06-18	1984-06-28	1984-10-09
V		10025177400000	TECH-FAL CO	1	AMSCO PROD CO	MUSKIE PROD CO	8	265	236	1880 FSL 1880 FSL CONGRESS SECTION	PERMIT EXPD	AB-DL	DELAWARE	NA	NA	4700	DELAWARE	1982-07-02		
V		10025177600000	AMCOG R C FEDERAL	1	TRACCO INCORPORATED	TRACCO INCORPORATED	8	265	236	1930 FSL 1930 FSL CONGRESS SECTION	PLUGGED	AB-DL	DELAWARE	4500	4500	4500	DELAWARE	1959-08-07	1960-08-31	1990-08-24
V		10025180400000	HIGHLAND FEDERAL	1	HIGHTHO PROD CO	QUAY VALLEY INC	8	265	236	1995 FSL 1997 FSL CONGRESS SECTION	PLUGGED	AB-DL	DELAWARE	6430	6430	4600	DELAWARE	1985-12-05	1986-11-15	1986-01-31
H		10025421200000	RED HILLS WEST UNIT	011	MEWBORNE OIL CO	MEWBORNE OIL CO	8	265	236	1310 FSL 1300 FSL CONGRESS SECTION	PRODUCING	ON	AVACON	8252	13770	13618	BORE SPRING UPPER	2015-07-23	2015-08-03	
H		10025426300000	13 HILLS WEST UNIT	011	MEWBORNE OIL CO	MEWBORNE OIL CO	8	265	236	1550 FSL 1550 FSL CONGRESS SECTION	PERMIT	PLUM	NA			3818	WOLFCAMP UPPER	2013-07-23		
H		10025446410000	RED HILLS WEST UNIT	011	MEWBORNE OIL CO	MEWBORNE OIL CO	8	265	236	1150 FSL 800 FSL CONGRESS SECTION	PRODUCING	ON	BORE SPRING	8884	13476	13472	BORE SPRING UPPER	2012-02-09	2012-02-11	2012-02-21
H		10025469610000	BLAKE 12 FEDERAL	011	CONOCOPhillips CO	CONOCOPhillips CO	17	265	228	128 FSL 2404 FSL CONGRESS SECTION	PRODUCING	ON	BORE SPRING	8848	13513	13513	BORE SPRING UPPER	2012-12-18	2013-04-04	2013-12-19

TABULATION OF NEARBY FRESH WATER WELLS PER NM STATE ENGINEERS WEBSITE  
 MRWBOURNE OIL COMPANY  
 RED HILLS WEST SWD #2

POD Number	DRILLER NAME	Drill TD	County	q84	q16	q4	Sec	Twp	Rng	X	Y	Depth Well	Depth Water	Water Column		
C 03829 POD1	Duran, Luis (Tony)	2/12/2015	LEA	SW	SW	NW	06	26S	32E	620628	3549186	32.0726	-103.721944	646	350	296

NOTE: well is outside 1/2 mile radius

FRESH WATER SAMPLES PREVIOUSLY CAUGHT ON BAKER

RANCH: S-6, Twp-26S, RGE-32E OR  
S-1; Twp-26S; RGE-31E



**BAKER  
HUGHES**

**Water Analysis**

Date: 22-Apr-15

2798 West County Road, Hobbs NM 88240  
Phone (575) 392-5356 Fax (575) 392-7307

Analyzed For

City/Town	Well Name	County	State
Newbourne	Baker #1	Lee	New Mexico

Sample Source	Wellhead	Sample #	
Formation		Depth	
Specific Gravity	1.000	SG @ 60 °F	1.002
pH	7.35	Sulfides	
Temperature (°F)	70	Reducing Agents	

Cations

	in Mg/L		in PPM	
Sodium (Calc)	188	in PPM	188	
Calcium	68	in PPM	68	
Magnesium	29	in PPM	29	
Soluble Iron (FE2)	0.0	in PPM	0	

Anions

	in Mg/L		in PPM	
Chlorides	400	in PPM	399	
Sulfates	70	in PPM	70	
Bicarbonates	18	in PPM	18	
Total Hardness (as CaCO3)	290	in PPM	289	
Total Dissolved Solids (Calc)	748	in PPM	748	
Equivalent NaCl Concentration	728	in PPM	728	

Scaling Tendencies

*Calcium Carbonate Index	958
Below 500,000 Remove / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable	
*Calcium Sulfate (Gyp) Index	4,750
Below 500,000 Remove / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable	

\*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment

Remarks nw-5.0701

Report # 3315

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease Red Hills West Unit Well No 011H Location 330' FNL & 215' FWL  
County Lea ST NM Section 10 TwnShp 26S Rng 32E  
Section                      Blk                      Survey                       
Filename Formerly named Red Hills West Unit 10 DM Page 1

API No. 30-025-42336

DATE	DAILY REPORTS
APR 21 2016	<p data-bbox="751 410 1480 456">Water analysis from 03/21/16: SG @ 1.117, pH 7.00, Na 65228, Ca 5976, Mg 278, Ba 0, Fe 60, Cl 109950, SO<sub>4</sub> 975, HCO<sub>3</sub> 2660 (all in Mg/L).</p> <p data-bbox="751 477 961 500">AVALON FORMATION</p>

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease Red Hills West Unit Well No 007H Location 330' FNL & 1150' FWL  
County Lea ST NM Section 10 TwnShp 26S Rng 32E  
Section \_\_\_\_\_ Blk \_\_\_\_\_ Survey \_\_\_\_\_  
Filename \_\_\_\_\_ Page 1

API No. \_\_\_\_\_

DATE	DAILY REPORTS
APR 21 2016	<p>Water analysis from 03/21/16: SG @ 1.107, pH 7.00, Na 58466, Ca 4296, Mg 795, Ba 0, Fe 33, Cl 98200, SO<sub>4</sub> 1000, HCO<sub>3</sub> 2318 (all in Mg/L).</p> <p><b>AVALON FORMATION</b></p>

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease Big Sinks 1 A2PA Fed Com Well No 1H Location \_\_\_\_\_  
County Eddy ST NM Section 12 TwnShp 26S Rng 31E  
Section \_\_\_\_\_ Blk \_\_\_\_\_ Survey \_\_\_\_\_  
Filename \_\_\_\_\_ Page 3

API No. \_\_\_\_\_

DATE	DAILY REPORTS
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APR 21 2016	Water analysis from 03/21/16: SG @ 1.130, pH 7.00, Na 65734, Ca 7576, Mg 1317, Ba 0, Fe 50, Cl 117250, SO <sub>4</sub> 850, HCO <sub>3</sub> 1757 (all in Mg/L).
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AVALON WATER ANALYSIS

MEWBOURNE OIL COMPANY  
P. O. BOX 7698  
TYLER, TEXAS 75711

Lease Bebop 36 W1MD State Well No 2H Location \_\_\_\_\_  
County Eddy ST NM Section 36 TwnShp 25S Rng 31E  
Section \_\_\_\_\_ Blk \_\_\_\_\_ Survey \_\_\_\_\_

Filename \_\_\_\_\_ Page 1  
API No. \_\_\_\_\_

DATE	DAILY REPORTS
MAR 23 2016	<p>Water analysis from 02/13/16: SG @ 1.125, pH 5.05, Na 64147, Ca 12400, Mg 615, Ba 150, Fe 308, Cl 123450, SO<sub>4</sub> 0, HCO<sub>3</sub> 122 (all in Mg/L).</p> <p>WOLFCAMP SAMPLE</p>

June 6, 2016

Engineering and Geological Services Bureau, Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
Attn: Mr. Phillip Goetze

Re: *Red Hills West SWD #2*

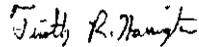
Mr. Goetze,

In accordance with item XII on Mewbourne Oil Company's C-108 filed for the captioned salt water disposal well, Mewbourne Oil Company has examined geologic and engineering data and *has found that there is no evidence of faulting or any other hydrologic connection between the proposed disposal zone and any underground sources of drinking water.*

Should you have any questions, please email me at [tharrington@mewbourne.com](mailto:tharrington@mewbourne.com) or call me at (903) 534-7647.

Sincerely yours,

MEWBOURNE OIL COMPANY



Tim Harrington  
Reservoir Engineer

Listing of Notified Persons

Red Hills SWD #2 Application  
1100' FSL & 900' FWL  
Section 8, T26S, R32E, Lea County, NM

Surface Owner

Bureau of Land Management  
620 East Greene Street  
Carlsbad, New Mexico 88220

Offsetting Operators

Sahara Operating  
306 W. Wall St, #1025  
Midland, TX 79701

ConocoPhillips Company  
600 N. Dairy Ashford Road  
Houston, TX 77252

**Listing of Notified Persons**

Red Hills SWD #2 Application  
1100' FSL & 900' FWL  
Section 8, T26S, R32E, Lea County, NM

**Surface Owner**

Bureau of Land Management  
620 East Greene Street  
Carlsbad, New Mexico 88220

**Offsetting Operators**

Sahara Operating  
306 W. Wall St, #1025  
Midland, TX 79701

ConocoPhillips Company  
600 N. Dairy Ashford Road  
Houston, TX 77252

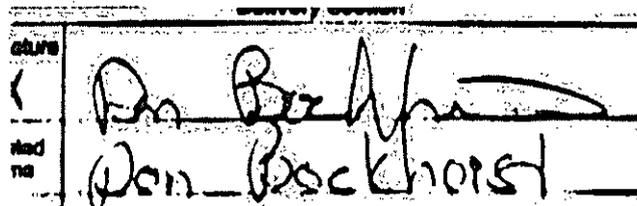


Date: June 10, 2016

Simple Certified:

The following is in response to your June 10, 2016 request for delivery information on your Signature Confirmation™ item number 9410810699945015848768. The delivery record shows that this item was delivered on June 9, 2016 at 8:52 am in HOUSTON, TX 77094 to T WEBSTER. The scanned image of the recipient information is provided below.

Signature of Recipient:



Address of Recipient :



Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,  
United States Postal Service

ConcoPhillips Company ConcoPhillips Company 600 N. Dairy Ashford Road Houston, TX 77252 Cost of Service: \$8.8
--

Tim Harrington

9410 8106 9994 5015 8487 68



Shipment Confirmation  
Acceptance Notice

**A. Mailer Action**

Note To Mailer: The labels and volume associated to this form online, must match the labeled packages being presented to the USPS employee with this form.

Shipment Date: 6/7/2016

Shipped From: SimpleCertifiedMail.com  
Name: Charles Crutchfield  
Address: P O Box 7698  
City: Tyler  
State: TX ZIP+4: 75711

Type of Mail	Volume
Priority Mail Service®	1
Priority Mail Express Service®	0
International Mail*	0
Other	0
<b>Total Volume</b>	<b>1</b>

\*Start time for products with service guarantees will begin when mail arrives at the local Post Office™ and items receive individual processing and acceptance scans.

**B. USPS Action**

USPS EMPLOYEE: Please scan upon pickup or receipt of mail. Leave form with customer or in customer's mail receptacle.

USPS Tracking

94 757 102 007 93680927529

Conoco Phillips Company

PS Form 5630, November 2006, PSN 7530-08-000-4336



Date: June 10, 2016

Simple Certified:

The following is in response to your June 10, 2016 request for delivery information on your Signature Confirmation™ item number 9410810699945015851096. The delivery record shows that this item was delivered on June 9, 2016 at 12:49 pm in MIDLAND, TX 79701 to M MCALPINE. The scanned image of the recipient information is provided below.

Signature of Recipient :

Delivery Section	
Signature	X <i>George McAlpine</i>
Printed Name	GEORGE MCALPINE

Address of Recipient :

Delivery Address	306 WALL
------------------	----------

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,  
United States Postal Service

Sahara Operating Sahara Operating 360 W. Wall St #1025 Midland, TX 79701 Cost of Service: \$8.9
--

Simple Certified Mail  
Tim Harrington

USPS SIGNATURE TRACKING # Page 1 of 1  
9410 8106 9994 5015 8510 96



Shipment Confirmation  
Acceptance Notice

**A. Mailer Action**

Note To Mailer: The labels and volume associated to this form online, must match the labeled packages being presented to the USPS® employee with this form.

Shipment Date: 6/7/2016

Shipped From: SimpleCertifiedMail.com  
Name: Charles Crutchfield  
Address: P O Box 7698  
City: Tyler  
State: TX ZIP+4® 75711

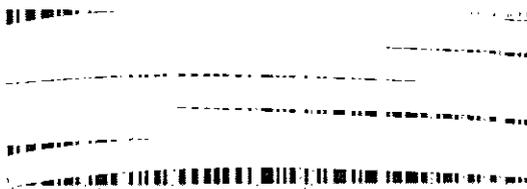
Type of Mail	Volume
Priority Mail Service®	1
Priority Mail Express Service®*	0
International Mail®	0
Other	0
Total Volume	1

\*Start time for products with service guarantees will begin when mail arrives at the local Post Office™ and items receive individual processing and acceptance scans.

**B. USPS Action**

USPS EMPLOYEE: Please scan upon pickup or receipt of mail. Leave form with customer or in customer's mail receptacle.

USPS Tracking



94757 102 007 93680929950

Sahara Operating

PS Form 5630, November 2006, PSN 7530-08-000-4335

**Tim Harrington**

---

**From:** webmaster@simplecertifiedmail.com  
**Sent:** Friday, June 10, 2016 2:45 AM  
**To:** Tim Harrington  
**Subject:** Document Delivered

Signature Confirmation Information for a document with a tracking code of 9410810699945015851096 and reference number of has been updated.



Date: June 13, 2016

Simple Certified:

The following is in response to your June 13, 2016 request for delivery information on your Signature Confirmation™ item number 9410810699945015850587. The delivery record shows that this item was delivered on June 13, 2016 at 2:14 pm in CARLSBAD, NM 88220 to T NORRIS. The scanned image of the recipient information is provided below.

Signature of Recipient :

A handwritten signature in black ink that appears to read "T Norris". The signature is written in a cursive style with a large, sweeping flourish at the end.

Address of Recipient :

A handwritten address in black ink that reads "620 E Greene St". The text is written in a cursive style.

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,  
United States Postal Service

Bureau of Land Management Bureau of Land Management 620 East Greene Street Carlsbad, NM 88220 Cost of Service: \$8.8
--

Tim Harrington

9410 8106 9994 5015 8505 87



Shipment Confirmation  
Acceptance Notice

**A. Mailer Action**

Note To Mailer: The labels and volume associated to this form online, must match the labeled packages being presented to the USPS® employee with this form.

Shipment Date: 6/7/2016

Shipped From: SimpleCertifiedMail.com  
Name: Charles Crutchfield  
Address: P O Box 7698  
City: Tyler  
State: TX ZIP+4® 75711

Type of Mail	Volume
Priority Mail Service®	1
Priority Mail Express Service®*	0
International Mail*	0
Other	0
<b>Total Volume</b>	<b>1</b>

\*Start time for products with service guarantees will begin when mail arrives at the local Post Office™ and items receive individual processing and acceptance scans.

**B. USPS Action**

USPS EMPLOYEE: Please scan upon pickup or receipt of mail. Leave form with customer or in customer's mail receptacle.

USPS Tracking

94 757 102 007 93680928953

Bureau of Land Management

**Tim Harrington**

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**From:** webmaster@simplecertifiedmail.com  
**Sent:** Monday, June 13, 2016 9:35 PM  
**To:** Tim Harrington  
**Subject:** Document Delivered

Signature Confirmation Information for a document with a tracking code of 9410810699945015850587 and reference number of has been updated.

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

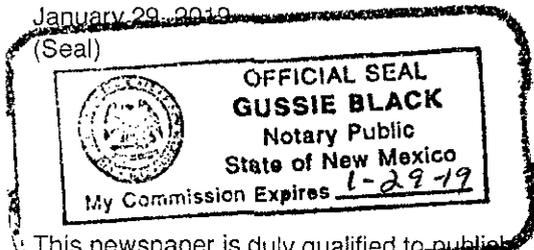
Beginning with the issue dated  
June 09, 2016  
and ending with the issue dated  
June 09, 2016.

  
\_\_\_\_\_  
Publisher

Sworn and subscribed to before me this  
9th day of June 2016.

  
\_\_\_\_\_  
Business Manager

My commission expires  
January 29, 2019



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

## LEGALS

LEGAL NOTICE  
June 9, 2016

### NOTICE

Mewbourne Oil Company has filed a form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to utilize their proposed Red Hills SWD #2 as a salt water disposal well.

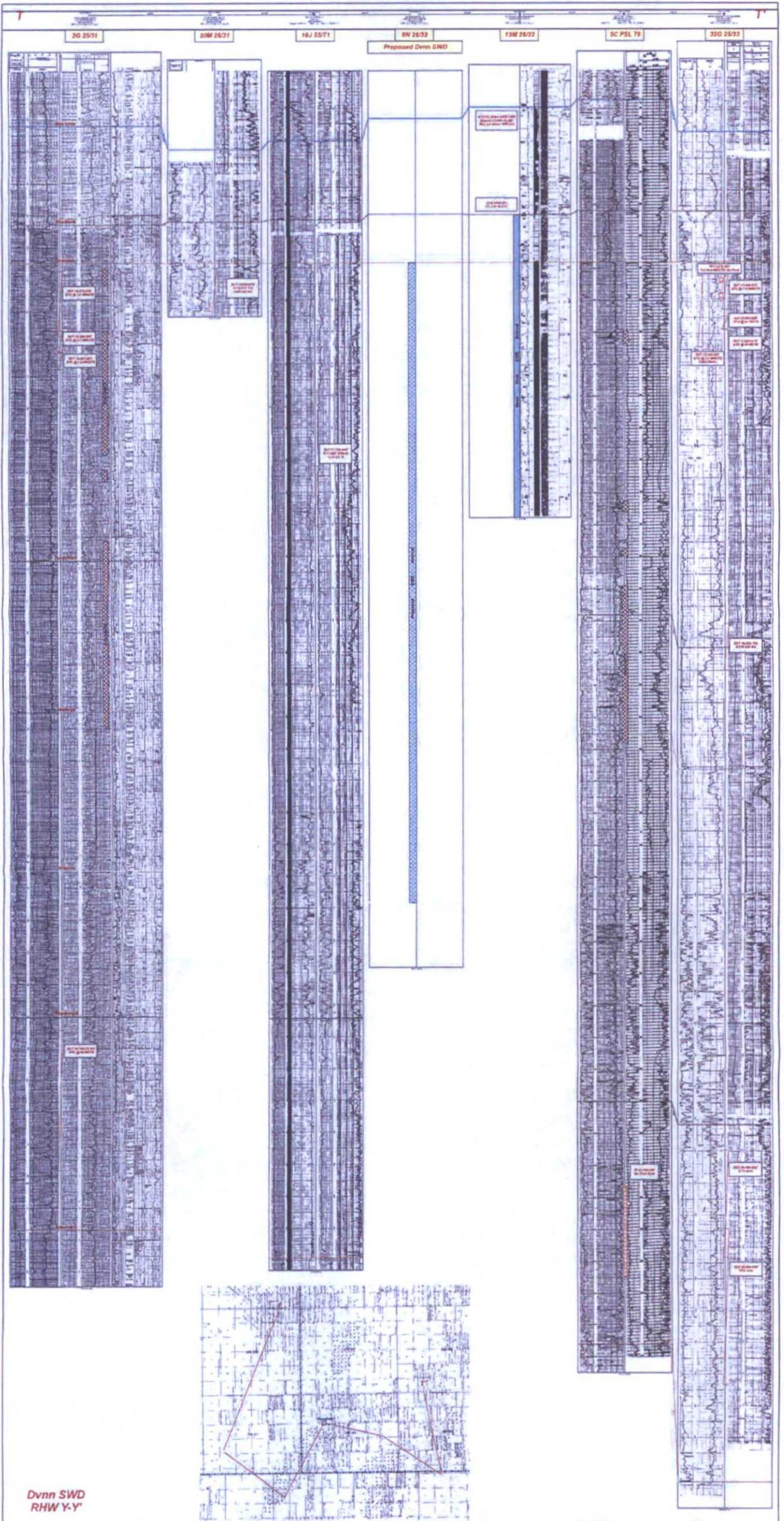
The Red Hills SWD #2 is located 1100' FSL and 900' FWL, Unit Letter M, Section 8, Township 26 South, Range 32 East, NMPM, Lea County, New Mexico. The well will dispose of water produced from nearby operated oil and gas wells into the Devonian, Fusselman, Montoya and Simpson formations into an open-hole interval from a depth of 17,300 feet to 19,350 feet. Expected maximum injection rates are 25,000 BWP/D at a maximum injection pressure of 3460 psi.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days. The name and address of the contact party for the applicant is Tim Harrington, Mewbourne Oil Company, 3620 Old Bullard Road, Tyler, Texas 75701, (903)-534-7647. The well is located approximately 30 miles West of Jal, New Mexico.  
#30982

01102551

00176118

DREW GREENE  
MEWBOURNE OIL COMPANY  
P.O. BOX 7698  
TYLER, TX 75711





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*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

---

No records found.

**PLSS Search:**

Section(s): 7-9

Township: 26S

Range: 32E

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The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 03829	POD1	CUB	LE	3	3	1	06	26S	32E	620628	3549186	646	350	296

Average Depth to Water: 350 feet

Minimum Depth: 350 feet

Maximum Depth: 350 feet

Record Count: 1

**PLSS Search:**

Section(s): 4-6

Township: 26S

Range: 32E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



C-108 Review Checklist: Received 6/04/2016 Add. Request: 6/04/2016 Reply Date: 6/14/2016 Suspended: \_\_\_\_\_ (Ver 15)

ORDER TYPE: WFX / PMX / SWD Number: \_\_\_\_\_ Order Date: \_\_\_\_\_ Legacy Permits/Orders: \_\_\_\_\_

Well No. 2 Well Name(s): Red Hills SW

API: 30-0 25-Pending Spud Date: TBD New or Old: \_\_\_\_\_ (UIC Class II Primacy 03/07/1982)

Footages 1100 SL  
900 Full Lot \_\_\_\_\_ or Unit \_\_\_\_\_ Sec 8 Tsp 265 Rge 32E County Lea

General Location: 23 miles SW of JAL Pool: Swi, Devonian Silurian Pool No.: \_\_\_\_\_

BLM 100K Map: JAL Operator: Oil company OGRID: 14744 Contact: Tim Herrington

COMPLIANCE RULE 5.9: Total Wells: \_\_\_\_\_ Inactive: \_\_\_\_\_ Fincl Assur: \_\_\_\_\_ Compl. Order? \_\_\_\_\_ IS 5.9 OK? \_\_\_\_\_ Date: \_\_\_\_\_

WELL FILE REVIEWED  Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed  or RE-ENTER: Before Conv.  After Conv.  Logs in Imaging: \_\_\_\_\_

Planned Rehab Work to Well: \_\_\_\_\_

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and Determination Method
		Borehole / Pipe	Depths (ft)	Sx or Cf	
Planned ___ or Existing ___ Surface		<u>24 1/2"</u>	<u>1100</u>	<u>1640</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod		<u>17 1/2" / 13 3/8"</u>	<u>4275</u>	<u>2040</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Interm/Prod		<u>12 1/4" / 9 5/8"</u>	<u>11650</u>	<u>2540</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___ Prod/Liner		<u>8 1/2" / 7"</u>	<u>11730</u>	<u>825</u>	<u>11450 / CB-L</u>
Planned ___ or Existing ___ (Line)					
Planned ___ or Existing ___ OH / PERF		<u>1734 / 14350</u>		<u>2050</u>	
				<b>Completion/Operation Details:</b>	
Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	Drilled TD <u>1439</u> PBSD _____
Adjacent Unit: Litho. Struc. Por.			<u>WD</u>	<u>17170</u>	NEW TD _____ NEW PBSD _____
Confining Unit: Litho. Struc. Por.			<u>DV</u>	<u>17300</u>	NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Proposed Inj Interval TOP:					Tubing Size <u>4E</u> in. Inter Coated? _____
Proposed Inj Interval BOTTOM:					Proposed Packer Depth <u>17230</u> ft
Confining Unit: Litho. Struc. Por.					Min. Packer Depth <u>1720</u> (100-ft limit)
Adjacent Unit: Litho. Struc. Por.					Proposed Max. Surface Press. <u>340</u> psi
					Admin. Inj. Press. <u>340</u> (0.2 psi per ft)

**AOR: Hydrologic and Geologic Information**

POTASH: R-111-P \_\_\_\_\_ Noticed? \_\_\_\_\_ BLM Sec Ord  WIPP  Noticed? \_\_\_\_\_ Salt/Salado T: \_\_\_\_\_ B: \_\_\_\_\_ NW: Cliff House fm \_\_\_\_\_

FRESH WATER: Aquifer Quaternary Max Depth 350 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: CARLSBAD CAPITAN REEF thru adj NA No. Wells within 1-Mile Radius? 1 FW Analysis

Disposal Fluid: Formation Source(s) well 1 - Camp Analysis? \_\_\_\_\_ On Lease  Operator Only  or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 104/250 Protectable Waters? \_\_\_\_\_ Source: \_\_\_\_\_ System Closed or Open

HC Potential: Producing Interval? NA Formerly Producing? \_\_\_\_\_ Method: Logs/DST/P&A/Other \_\_\_\_\_ 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map?  Well List?  Total No. Wells Penetrating Interval: 0 Horizontals? 0

Penetrating Wells: No. Active Wells 0 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

Penetrating Wells: No. P&A Wells 0 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

NOTICE: Newspaper Date 6-01-2011 Mineral Owner BLM Surface Owner BLM N. Date 6/13

RULE 26.7(A): Identified Tracts? \_\_\_\_\_ Affected Persons: CONOCOPHOS OPERATING N. Date 6/10

Order Conditions: Issues: \_\_\_\_\_

Add Order Cond: \_\_\_\_\_

RUN CB-L FROM 1730 - 1100