

new
6-04-2016

6/04/2016 mmm 6/04/2016 SWD PM AM 1616155133

DATE	SUBJECT	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE 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 Proration 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]

[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
Print or Type Name

Timothy R. Harrington
Signature

Reservoir Engineer
Title

6/7/16
Date

tharrington@newmexico.com
e-mail Address

SWD-1635
Membourene Oil Co
14744
WCU
- Red Hills SUD# 2
30-025-Pending
Pool
SWD, Devonian-
Silurian
97869

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X 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 X 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: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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

WELL LOCATION:	1100' FSL & 900' FWL	M	08	26S	32E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELL CONSTRUCTION DATA

Open Hole Completion from 17,300'-19,350'

Side 2

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'), 2nd Bone Spring (10,100'), 3rd 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 & 106.58 J-55 BTC
Set @ 1100'
Cmt w/ 1640 sx

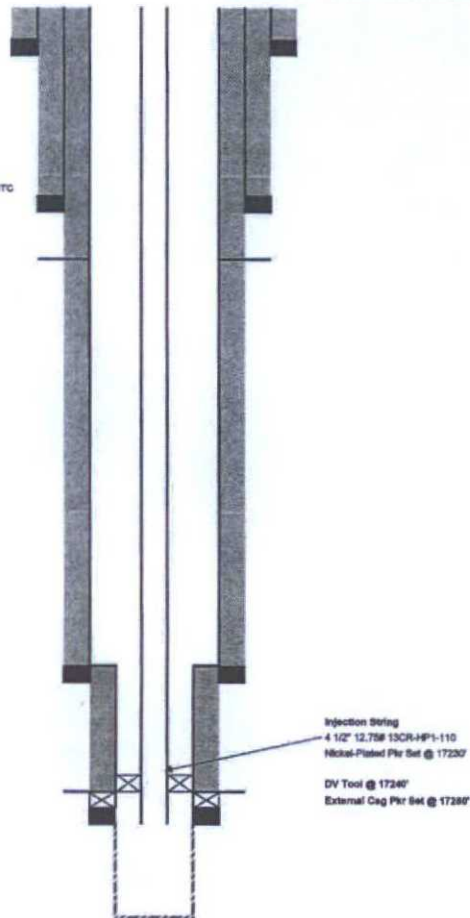
13 3/8" 54.5 & 61# J-55 & 60# HCL80 BTC
Set @ 4278'
Cmt w/ 2040 sx

DV Tool @ 4400'
Cmt 2nd slg w/ 1018 sx

9 5/8" 40, 43.5 & 47# HCL80 LTC
Set @ 11850'
Cmt 1st slg w/ 1525 sx

7" 29 & 32# HCL-80 LTC Liner
Set from 11450'-17300'
Cmt w/ 825 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 $\frac{1}{2}$ 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	COORDS	FEET	WELLS	COORDS	LATITUDE	LONGITUDE	API	COUNTY	FIELD	WELLNAME	FORMATION
12753	3900071.9	15400117	12753	3900071.9	109.1774	37.0131	1091774	Lea	House Rock South	12753	12753
DATESAMPLED	METHOD	FORMATION	DEPTH/FEET	DEPTH/FEET	DEPTH/FEET	DEPTH/FEET	DEPTH/FEET	DEPTH/FEET	DEPTH/FEET	DEPTH/FEET	DEPTH/FEET
7/8/73 ON CH	Water sample	Devonian	14078	14078	14078	14078	14078	14078	14078	14078	14078

- 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'
EST TOTAL DEPTH	19,350'
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.

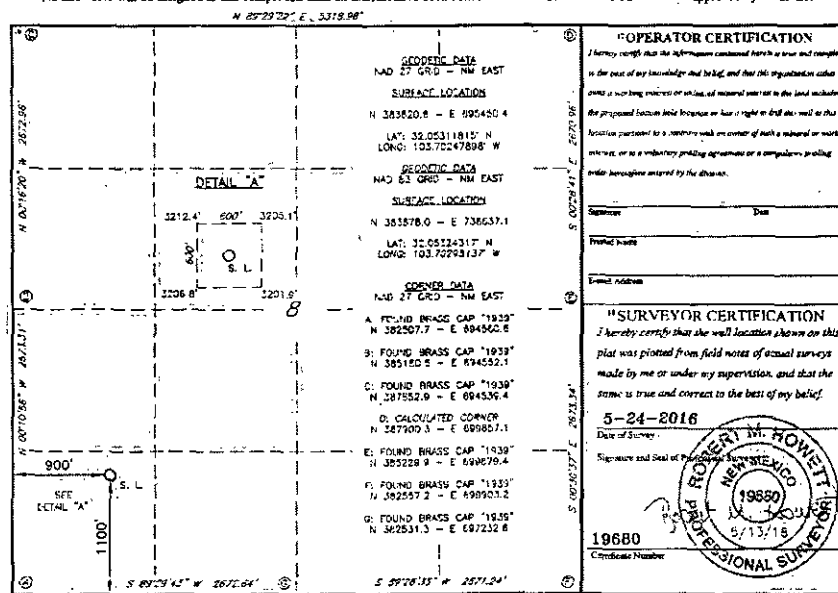
State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

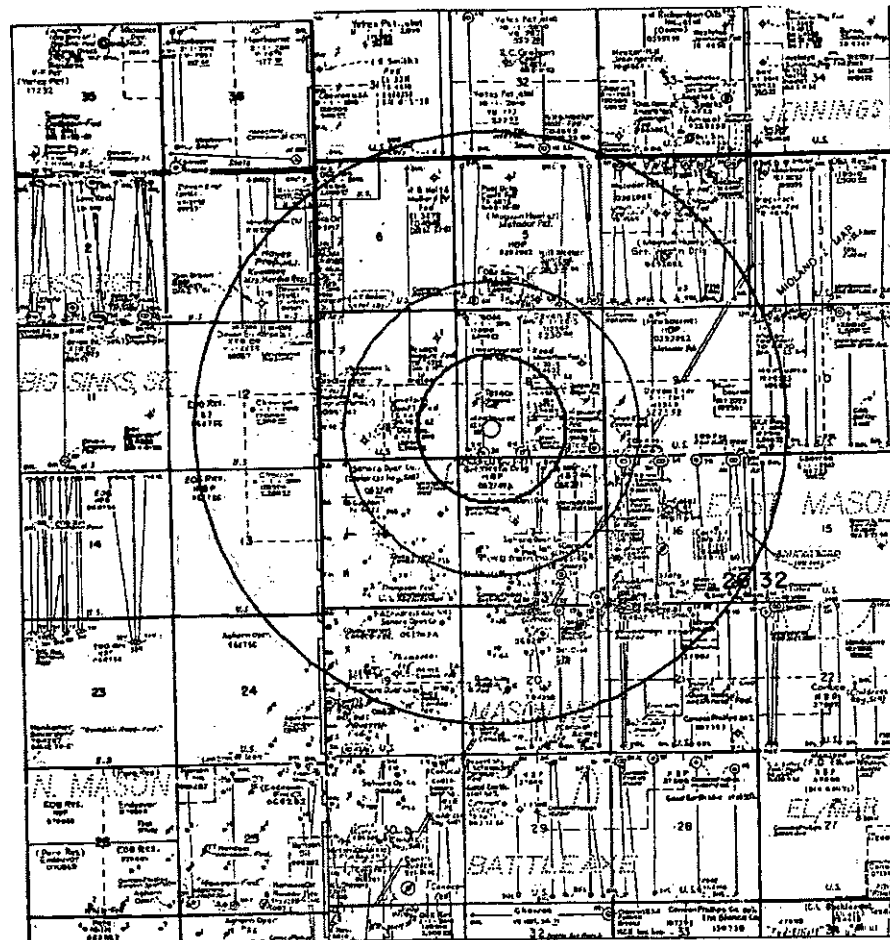
☐ AMENDED REPORT

1 API Number		2 Pool Code		3 Pool Name			
4 Property Code		5 Property Name RED HILLS SWD				6 Well Number 2	
7 OGRID NO.		8 Operator Name MEWBOURNE OIL COMPANY				9 Location 3208'	
10 Surface Location							
11 L or lat no. M	12 Section 8	13 Township 26S	14 Range 32E	15 Loc. Id. 1100	16 North/South line SOUTH	17 Feet from the 900	18 East/West line WEST
19 Bottom Hole Location If Different From Surface							
20 L or lat no.	21 Section	22 Township	23 Range	24 Loc. Id.	25 North/South line	26 Feet from the	27 East/West line
28							
30 Designated Area		31 Name or Initial	32 Classification Code		33 Order 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.




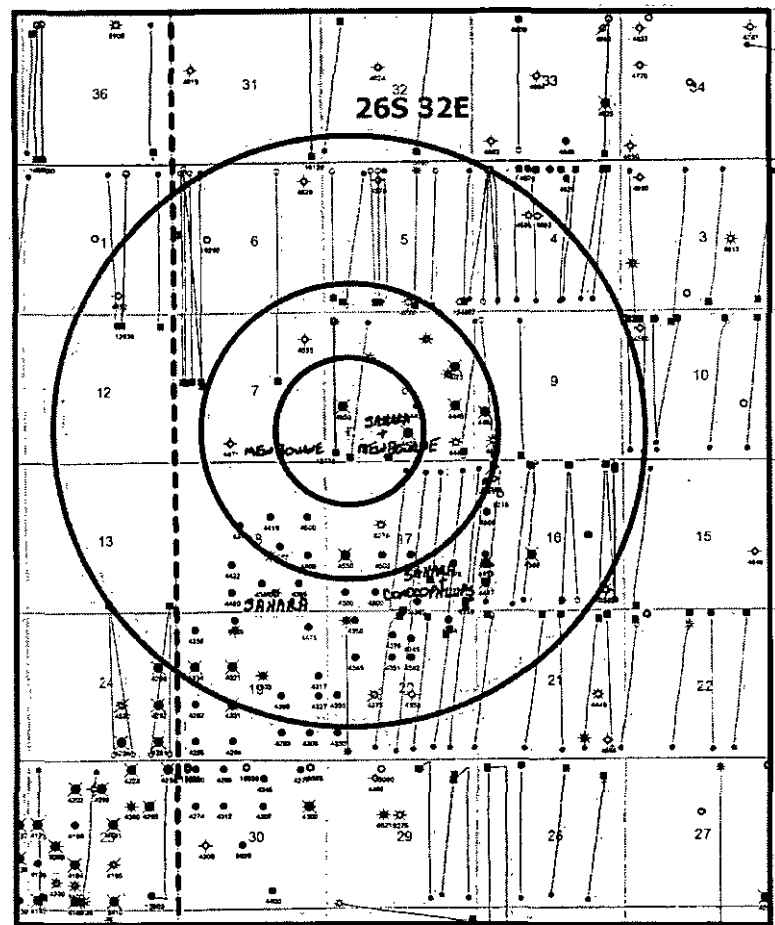
RRR - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1605204



1 inch = 4,000 feet

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

 Mewbourne Oil Company	
RED HILLS WEST SWD #2 APPLICATION 165 - 32E SEC. 8 LEA, NEW MEXICO	
Author: JF	Date: 4 Mar. 2016



1" = 4000'

2500 0 2500 5000 7500 ft

- 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

Mewbourne Oil Company		
RED HILLS WEST SWD #2		
SEC. 1 - 36S-32E		
T. 26S. R. 32E		
LEA, NEW MEXICO		
Drawn by	Checked by	Date
W. H. H. H.	W. H. H. H.	7. Nov. 2016

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

TOP DISPOSAL INTERVAL 17300 FT TVD

Well	AP#	Lease Name	WML Num	Operator Name	Current Operator	Sec	Trp	Age	Postage	Current Status	Final Status	SP Prod Form Name	TVD	Offset Td	Prod Depth	Prod Form	Permit Date	Spud Date	Comp Date
V	100251727200000	AMOCO FEDERAL	3	LYCO ENERGY CORP	SAHARA OPERATING CO	8	255	3.2E	2004 FSL 2004 FSL CONGRESS SECTION	PRODUCING	OK	DELAWARE	6435	6435	4500	DELAWARE	1984-06-18	1984-06-28	1984-12-01
V	100251727240000	TECH-PAL, L.P.	3	AMOCO PROCO CO	AMOCO PROCO CO	8	255	3.2E	1985 FSL 1985 FSL CONGRESS SECTION	PERMIT EXPIRED	AB-DL	DELAWARE	NA	NA	4700	DELAWARE	1982-07-02		
V	100251727250000	AMOCO R.C. FEDERAL	3	TECHNO INCORPORATED	TECHNO INCORPORATED	8	265	3.0E	1990 FSL 1990 FSL CONGRESS SECTION	IN USE	AB-DL	DELAWARE	6530	6530	4530	DELAWARE	1992-08-07	1992-08-24	1992-08-24
V	100251727260000	HIGHLAND FEDERAL	3	HIGHLAND PROCO CO	QUAKY VALLEY INC	8	265	3.2E	2005 FSL 2005 FSL CONGRESS SECTION	PLUGGED	AB-DL	DELAWARE	6430	6430	4800	DELAWARE	1985-12-05	1985-12-15	1986-01-31
H	100254212500000	RED HILLS WEST UNIT	91E	MEWBOURNE OIL CO	MEWBOURNE OIL CO	8	265	3.2E	1970 FSL 1970 FSL CONGRESS SECTION	PRODUCING	OK	AVACON	9233	11770	11619	BORE SPRING UPPER	2015-03-23	2015-04-05	
H	100254212510000	RED HILLS WEST UNIT	91E	MEWBOURNE OIL CO	MEWBOURNE OIL CO	8	265	3.2E	1970 FSL 1970 FSL CONGRESS SECTION	PERMIT	OK	NA			11619	BORE SPRING UPPER	2015-03-23		
H	100254212520000	RED HILLS WEST UNIT	91E	MEWBOURNE OIL CO	MEWBOURNE OIL CO	8	265	3.2E	1970 FSL 1970 FSL CONGRESS SECTION	PRODUCING	OK	BORE SPRING	8881	13478	13477	BORE SPRING UPPER	2012-02-09	2012-02-11	2012-02-21
H	100254212530000	RED HILLS WEST UNIT	91E	MEWBOURNE OIL CO	MEWBOURNE OIL CO	8	265	3.2E	1970 FSL 1970 FSL CONGRESS SECTION	PRODUCING	OK	BORE SPRING	8881	13478	13477	BORE SPRING UPPER	2012-02-09	2012-02-11	2012-02-21

TABULATION OF NEARBY FRESH WATER WELLS PER NM STATE ENGINEERS WEBSITE
MSWBOURNE 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	28S	32E	620628	3549186	32.0725	-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



Water Analysis

Date: 22-Apr-15

2708 West County Road, Hobbs NM 88240
Phone (575) 392-5536 Fax (575) 392-7307

Analyzed For

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

Sample Source Wellhead Sample # 1

Formation Depth

Specific Gravity	1.000	SG @ 60 °F	1.002
pH	7.35	Sulfides	
Temperature (°F)	70	Reducing Agents	

Cations

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

Anions

Chlorides	in Mg/L	400	in PPM	399
Sulfates	in Mg/L	70	in PPM	70
Bicarbonates	in Mg/L	15	in PPM	15

Total Hardness (as CaCO3)	in Mg/L	290	in PPM	289
Total Dissolved Solids (Calc)	in Mg/L	748	in PPM	748
Equivalent NaCl Concentration	in Mg/L	728	in PPM	728

Scaling Tendencies

*Calcium Carbonate Index 958
Below 500,000 Possible / 500,000 - 1,000,000 Possible / Above 1,000,000 Possible

*Calcium Sulfate (Gyp) Index 4,750
Below 500,000 Possible / 500,000 - 10,000,000 Possible / Above 10,000,000 Possible

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

Remarks rw=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	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 ₄ 975, HCO ₃ 2660 (all in Mg/L). AVALON FORMATION

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, SO₄ 1000, HCO₃ 2318 (all in Mg/L).</p> <p>AVALON FORMATION</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
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 ₄ 850, HCO ₃ 1757 (all in Mg/L). 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	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 ₄ 0, HCO ₃ 122 (all in Mg/L). WOLFCAMP SAMPLE

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

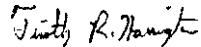
Mr. Goetze,

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 or call me at (903) 534-7647.

Sincerely yours,

MEWBOURNE OIL COMPANY

A handwritten signature in cursive script that reads "Timothy R. Harrington".

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:

Signature
Name
Don Boekhorst

Address of Recipient :

Address
very
near

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
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

94 757 102 007 93680927529

Conoco Phillips Company

PS Form 5830, November 2006, PSN 7530-08-000-4336



UNITED STATES
POSTAL SERVICE.

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	<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 #
9410 8106 9994 5015 8510 96

Page 1 of 1



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

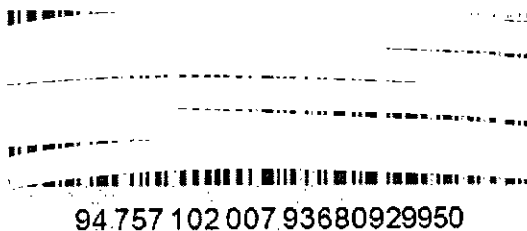
Type of Mail	Volume
Priority Mail Service®	1
Priority Mail Express Service®	0
International Mail®	0
Other	0
Total Volume	1

*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



Sahara Operating

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

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, appearing to read "T Norris", with a checkmark at the end.

Address of Recipient :

A handwritten address in black ink, reading "620 E Greene".

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
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

94 757 102 007 93680928953

Bureau of Land Management

Tim Harrington

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

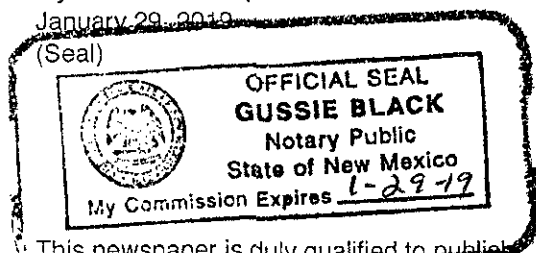
Sworn and subscribed to before me this
9th day of June 2016.



Business Manager

My commission expires
January 29, 2019

(Seal)



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 BWRD 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





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

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.



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-		Q Q Q			Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
	Code	basin	County	64	16								
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 FSL 900 FUL Lot _____ or Unit _____ Sec 8 Tsp 26S Rge 32E County LEC

General Location: 23 miles SW 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>24/20</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 ___ Liner					
Planned ___ or Existing ___ OH / PERF		<u>1734 / 1435</u>			
			Inj. Length		
			<u>2050</u>		
Completion/Operation Details:					
Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	Drilled TO <u>1439</u> PBTD _____
Adjacent Unit: Litho. Struc. Por.			<u>WD</u>	<u>17170</u>	NEW TD _____ NEW PBTD _____
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>346</u> psi
					Admin. Inj. Press. <u>346</u> (0.2 psi per ft)
AOR: Hydrologic and Geologic Information					
POTASH: R-111-P _____ Noticed? _____ BLM Sec Ord <input type="checkbox"/> WIPP <input type="checkbox"/> Noticed? _____ Salt/Salado T: _____ B: _____ NW: Cliff House fm _____					
FRESH WATER: Aquifer <u>Quaternary</u> Max Depth <u>350</u> HYDRO AFFIRM STATEMENT By Qualified Person <input checked="" type="checkbox"/>					
NMOSE Basin: <u>CARLSBAD</u> CAPTAN REEF thru adj <u>NA</u> No. Wells within 1-Mile Radius? <u>1</u> FW Analysis <u>Y</u>					
Disposal Fluid: Formation Source(s) <u>well 1 - Camp</u> Analysis? _____ On Lease <input type="checkbox"/> Operator Only <input type="checkbox"/> or Commercial <input type="checkbox"/>					
Disposal Int: Inject Rate (Avg/Max BWPD): <u>104/250</u> Protectable Waters? _____ Source: _____ System <u>Closed</u> or Open					
HC Potential: Producing Interval? <u>NA</u> Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mile Radius Pool Map <input type="checkbox"/>					
AOR Wells: 1/2-M Radius Map? <u>Y</u> Well List? <u>Y</u> Total No. Wells Penetrating Interval: <u>0</u> Horizontals? <u>0</u>					
Penetrating Wells: No. Active Wells <u>0</u> Num Repairs? _____ on which well(s)? _____ Diagrams? _____					
Penetrating Wells: No. P&A Wells <u>0</u> Num Repairs? _____ on which well(s)? _____ Diagrams? _____					
NOTICE: Newspaper Date <u>6-01-2011</u> Mineral Owner <u>BLM</u> Surface Owner <u>BLM</u> N. Date <u>6/13</u>					
RULE 26.7(A): Identified Tracts? _____ Affected Persons: <u>CONVULS, Sahara Operating</u> N. Date <u>6/10</u>					

Order Conditions: Issues: _____

Add Order Cond: _____

Run CB-L from 1730-11000