

Initial Application Part I

Received: 05/05/2022

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete



MEWBOURNE
OIL COMPANY

April 25, 2022

New Mexico Oil Conservation Division
Engineering Bureau
Attn: Mr. Phillip Goetze
1220 South St. Francis Dr.
Santa Fe, NM 87505

Re: C-108 Application for SWD Well
Penlon 15 Federal SWD #1
660' FSL & 810' FWL, Unit M
Section 15, Township 20 South, Range 27 East
Eddy County, New Mexico

Dear Mr. Goetze:

Attached is a C-108 Application for administrative approval of Mewbourne Oil's proposed Penlon 15 Federal SWD #1 that will be in Sec 15 Twp 20S, Rge 27E, N.M.P.M., Eddy County, New Mexico. This well will be perforated completion the Cisco formation and will be operated as a private saltwater disposal well.

A copy of the C-108 application with exhibits have been mailed to the surface owner, offset operators and offsetting lessees, and confirmations of receipt will be e-mailed to you later this week. An Affidavit of Publication is attached.

Should you have any questions, please contact us at (903) 534-7647.

Sincerely yours,

MEWBOURNE OIL COMPANY

Tim Harrington
Reservoir Engineer
tharrington@mewbourne.com

MEWBOURNE OIL COMPANY
PENLON 15 FEDERAL SWD #1
SWD PERMIT APPLICATION

LIST OF ATTACHMENTS:

Administrative Checklist

Form C-108

Penlon 15 Federal SWD #1 Current Well Schematic

Penlon 15 Federal SWD #1 Proposed Well Schematic

Penlon 15 Federal SWD #1 (Oxy Deck Jet Federal) Survey Plat

Oxy Jet Deck Completion / Plugging Report

Well Plat

Tabulation of Wells Within 1 Mile Radius

Fresh Water Well Map

Tabulation of Nearby Fresh Water Wells – (Source: NM Office of the State Engineer)

Fresh Water Well Water Analysis

Producing Well Water Analysis – Wolfcamp, & Bone Spring

Surface Ownership Map (Federal, State or Private)

Offset Operator Map

Listing of Notified Persons

Affidavit of Publication – Artesia-Daily Press

Hydrologic Affirmation

Seismicity Statement

Dagger Draw Seismicity Response Area Map – Penlon 15 SWD distance to nearest earthquake

Geological Cross Section

RECEIVED: 05/05/2022	REVIEWER:	TYPE: SWD	APP NO: pJZT2213248110
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & 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

Applicant: Mewbourne Oil Company	OGRID Number: 14744
Well Name: Penlon 15 Federal SWD #1	API: 30-015-pending
Pool: SWD; UPPER PENN	Pool Code: 96137

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
 A. Location – Spacing Unit – Simultaneous Dedication SWD-2480
 NSL NSP (PROJECT AREA) NSP (PRORATION UNIT) SD

- B. Check one only for [I] or [II]
 [I] Commingling – Storage – Measurement
 DHC CTB PLC PC OLS OLM
 [II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

FOR OCD ONLY	
<input type="checkbox"/>	Notice Complete
<input type="checkbox"/>	Application Content Complete

- 2) **NOTIFICATION REQUIRED TO:** Check those which apply.
 A. Offset operators or lease holders
 B. Royalty, overriding royalty owners, revenue owners
 C. Application requires published notice
 D. Notification and/or concurrent approval by SLO
 E. Notification and/or concurrent approval by BLM
 F. Surface owner
 G. For all of the above, proof of notification or publication is attached, and/or,
 H. No notice required

3) **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

 Signature

April 25, 2022

 Date

903-534-7647

 Phone Number

tharrington@mewbourne.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.

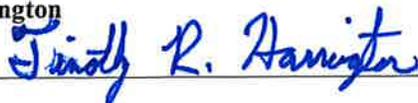
XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

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: _____



DATE: 4/25/2022

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: _____

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

OPERATOR: Mewbourne Oil Company

WELL NAME & NUMBER: Penlon 15 Federal SWD #1 (Re-enter OXY Jet Deck Federal #1) 30-015-32610

WELL LOCATION: 660' FSL & 810' FWL M 15 20S 27E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC (See Attached)

WELL CONSTRUCTION DATA

Surface Casing (Existing)

Hole Size: 17 1/2" Casing Size: 13 3/8" (48 #) @ 640'

Cement with: 1175 sx

Top of Cement: Surface
(cement did not circulate – ran 1”
and cemented to surface)

Intermediate Casing (Existing)

Hole Size: 12 1/4"

Casing Size: 9 5/8" (36 & 40#) @ 3,015'

Stage 1: 875 sx

Top of Cement: Surface
(Circulated)

Production Casing (New)

Hole Size: 8 3/4"

Casing Size: 7" (29#) @ 9,600'

Stage 1: 1400 sx Class H 11.5#
followed by 400 Sx Class H 15.6#

Top of Cement: Surface
(Calculated)

PBTD @ 10,230'

Permitted Injection Interval 8,978' -9,328'

INJECTION WELL DATA SHEET

Tubing Size: 4 ½" 12.75# CR 13 CS Hydril Lining Material: Duoline

Type of Packer: Model R Packer (Inconel)

Packer Setting Depth: +/- 8,950'

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

Additional Data

1. Is this a new well drilled for injection? **No**

If no, for what purpose was the well originally drilled? **Dryhole - Gas**

2. Name of the Injection Formation: **Cisco**

3. Name of Field or Pool (if applicable): **96134 SWD:UPPER PENN**

4. Has the well ever been perforated in any other zone(s)? **No.**

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

Overlying potentially productive zone tops – Delaware (2,450'), 3rd Bone Spring (7,860') & Wolfcamp (8,305')

Underlying producing zone – Strawn (9,692'), Atoka (9,976') & Morrow (10,234')

PENLON 15 FEDERAL SWD #1
Additional Details

VI. There are three wells penetrating the disposal formation within the area of review.

VII. 1. Proposed average rate of 7,500 bwpd and maximum rate of 15,000 bwpd.

2. Non-commercial SWD (closed system).

3. Proposed average injection pressure is unknown and the maximum injection pressure is approximately 1,796 psi (0.2 psi/ft x 8,978 ft).

4. This well is being permitted as a private SWD, therefore all the injected fluid will be formation water from Mewbourne Oil Company operated wells currently producing or planned in the area. Representative water samples from the Wolfcamp and Bone Spring formations are attached.

5. We will be injecting into the Cisco formation in the Upper Penn Field. Mewbourne operates a Cisco SWD (approx. 10 miles to the southwest) and has not encountered any water compatibility issues. The following data is the closest produced water analysis that is available on the USGS or NMT databases. The Spring SWD is a Cisco SWD in the SWD: UPPER PENN Field.

wellname	api	section	township	range	unit	ftgns	ftgew	formation	samples	tds_mgl	chloride_mgl	bicarbonate_mgl	sulfate_mgl
SPRING SWD #001	3001500129	4	21S	25E	A	660N	830E	CISCO	SWAB	31485	17000	635	2500
SPRING SWD #001	3001500129	4	21S	25E	A	660N	830E	CISCO	SWAB	31580	17370	502	2310

VIII. 1. The proposed injection interval is within the Upper Penn formation which is a porous dolomite from 8,978' to 9,328'.

Other Formation Tops:

Top Bone Spring	3,830'
Top Wolfcamp	8,305'
Top Strawn	9,692'
Top Atoka	9,976'
Top Morrow	10,234'

2. The underground fresh water aquifers are present at shallow depths (per review of well records, within Twp 20S, Rge 27E, on the NM Office of the State Engineers website) with the deepest water being encountered at a depth of 198', the shallowest water at a depth of 13' and the average water depth at 107'. There are no known fresh water intervals underlying the injecting formation.

IX. The proposed stimulation is an acid treatment of 10,000 gallons of 15% HCL.

IX. Open hole logs already exist on this dryhole. A gamma ray correlation / CCL log will be run for perforating purposes.

- X.** There were no wells on record with the NM State Engineers Office within 1 mile of the proposed SWD. Fresh water sample were taken from wells located in Section 8 & 14, Twp 20S, Rge 27E, and the analysis is attached. The location of these wells is highlighted on the attached Fresh Water Well Map and Listing of Nearby Fresh Water Wells.

- XI.** 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 is attached.

- XII.** See attached Proof of Notice

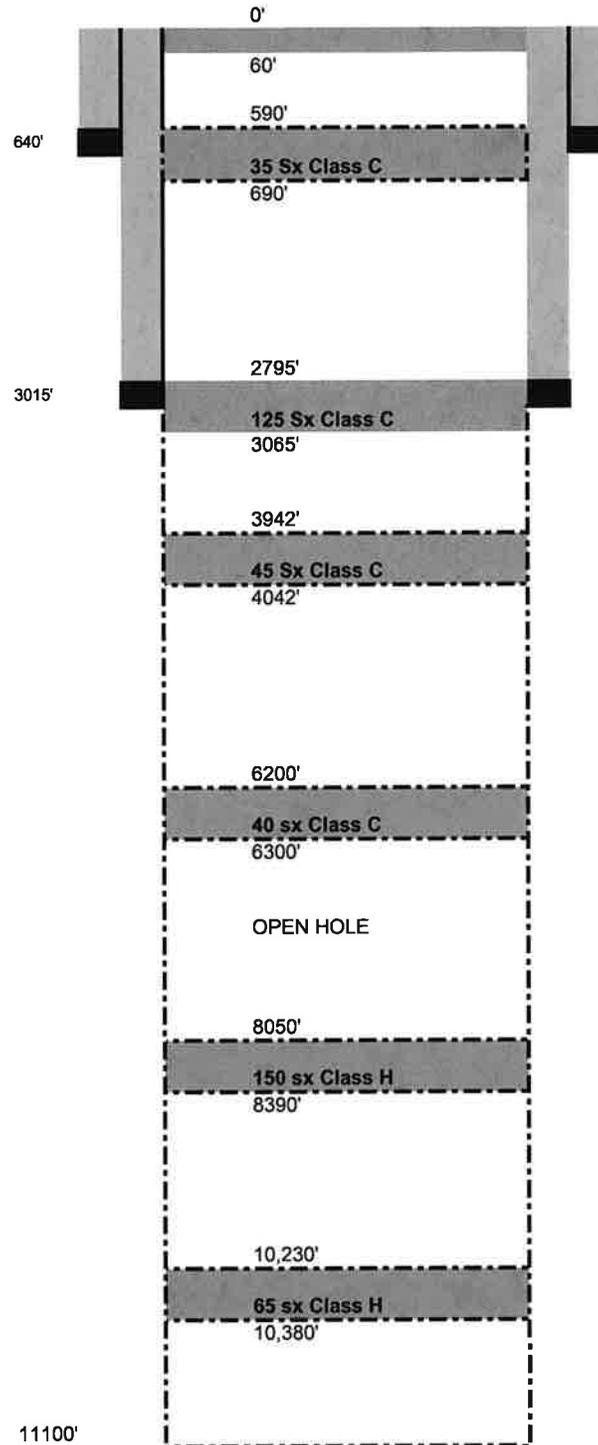
Mewbourne Oil Company Current Wellbore Schematic

Well Name: Penlon 15 Federal SWD #1
 Formerly: OXY Jet Deck Federal #1
 660' Fsl, 810 Fwl
 Sec 15, Twp 20S, Rge 27E
 API: 30-015-32610
 Spud 6/02/2003
 Dryhole: P&A 6/29/2003

Last Updated by T. Harrington 4/07/2022

13 3/8" (48#) H-40 STC
 Set @ 640'
 Cmt w/ 1175 sx
 Cement did not circulate
 Ran 1" & cement to surface

9 5/8" (36# & 40#) K-55
 Set @ 3015'
 Cmt w/ 875 sx
 Circulate to Surface



Total Depth 11100'

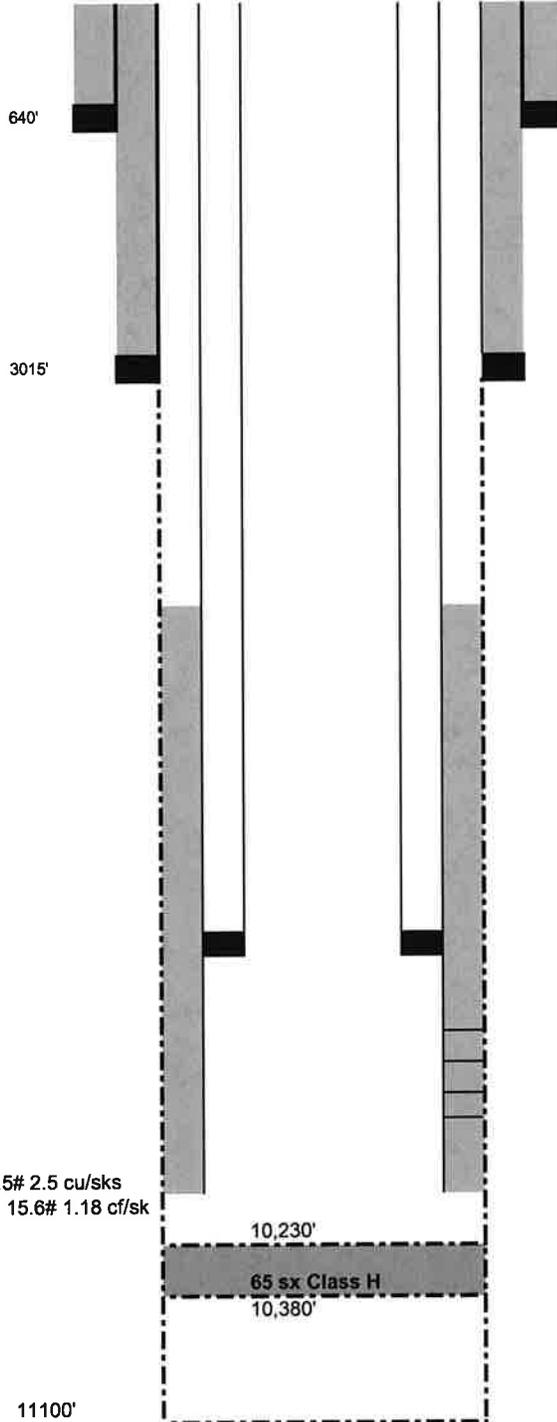
Mewbourne Oil Company Proposed Wellbore Schematic

Well Name: Penlon 15 Federal SWD #1
 Formerly: OXY Jet Deck Federal #1
 660' Fsl, 810 FwI
 Sec 15, Twp 20S, Rge 27E
 API: 30-015-32610
 Spud 6/02/2003
 Dryhole: P&A 6/29/2003

Last Updated by T. Harrington 4/11/2022

13 3/8" (48#) H-40 STC
 Set @ 640'
 Cmt w/ 1175 sx
 Cement did not circulate
 Ran 1" & cement to surface

9 5/8" (36# & 40#) K-55
 Set @ 3015'
 Cmt w/ 875 sx
 Circulate to Surface



4 1/2" 12.75# CR13 CS HyDril
 Duolined pipe
 Set @ 8950'

Model R Pkr
 Set @ 8950'

Proposed Disposal Zone

Upper Penn
8978' - 9328'

7"(29#) P-110 LT&C
 Set @ 9600'
 Cmt w/1400 sks Class H 11.5# 2.5 cu/sks
 followed by 400 sks Class H 15.6# 1.18 cf/sk

10,230'

65 sx Class H

10,380'

Total Depth 11100'

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Braun Rd., Aztec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 79920	Pool Name Undesignated Avalon Morrow
Property Code	Property Name OXY JET DECK FEDERAL	Well Number 1
OGRD No. 192463	Operator Name OXY USA WTP, L.P.	Elevation 3296'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	20 S	27 E		660	SOUTH	810	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	Joint or Infill N	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>David Stewart</i> Signature</p> <p>David Stewart Printed Name</p> <p>Sr. Regulatory Analyst Title</p> <p>1/9/03 Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>JANUARY 06, 2003 Date Surveyed</p> <p><i>Gary Jones</i> Signature</p> <p>GARY JONES Professional Surveyor NEW MEXICO 7977 W.O. No. 2942</p> <p>Certificate No. Gary Jones 7977 PROFESSIONAL LAND SURVEYOR BASIN SURVEYS</p>

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NM0455265

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
OXY Jet Deck Federal #1

9. API Well No.
30-015-32610

10. Field and Pool, or Exploratory
Undsg Avalon Morrow

11. Sec., T., R., M., or Block and
Survey or Area
Sec 15 T20S R27E

12. County or Parish
Eddy

13. State
NM

1a. Type of Well Oil Well Gas Well Dry Other

b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resvr.
Other

2. Name of Operator
OXY USA WTP Limited Partnership

3. Address
P.O. Box 50250 Midland, TX 79710-0250

3a. Phone No. (include area code)
432-685-5717

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface **660 FSL 810 FWL SWSW(M)**
At top prod. interval reported below
At total depth



14. Date Spudded **6/2/03**

15. Date T.D. Reached **6/29/03**

16. Date Completed TVD & A Ready to Prod.

18. Total Depth: MD **11100'** TVD

19. Plug Back T.D.: MD **---** TVD

20. Depth Bridge Plug Set: MD **---** TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DLL/MLL/CZDL/CNL/GRL

22. Was well cored? No Yes (Submit analysis)
Was DST run No Yes (Submit report)
Directional Survey? No Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt.(#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8"	48#	0	640'	---	1175		Surface	N/A
12-1/4"	9-5/8"	36-40#	0	3015'	---	875		Surf-Circ	N/A

24. Tubing Record

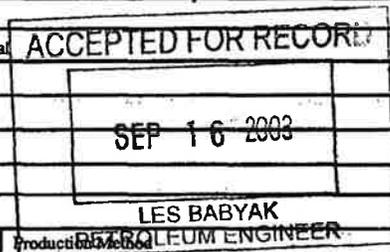
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)						
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
10380-10230'	65sx C1 H cmt
8390-8050'	150sx C1 H cmt w/ 1% CaCl2
6300-6200'	40sx C1 C cmt
4042-3942'	45sx C1 C cmt



28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
			24 Hr. →						P&A

28a. Production-Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
			24 Hr. →						

(See instructions and spaces for additional data on reverse side)

8b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof; Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				Bone Springs	4042'
				Wolfcamp	8390'
				Morrow	10380'

12. Additional remarks (include plugging procedure):

125sx C1 C cmt @ 3065-2795'
 35sx C1 C cmt @ 690-590'
 Circ cmt to surface @ 60'

13. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7. Other

14. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) David Stewart

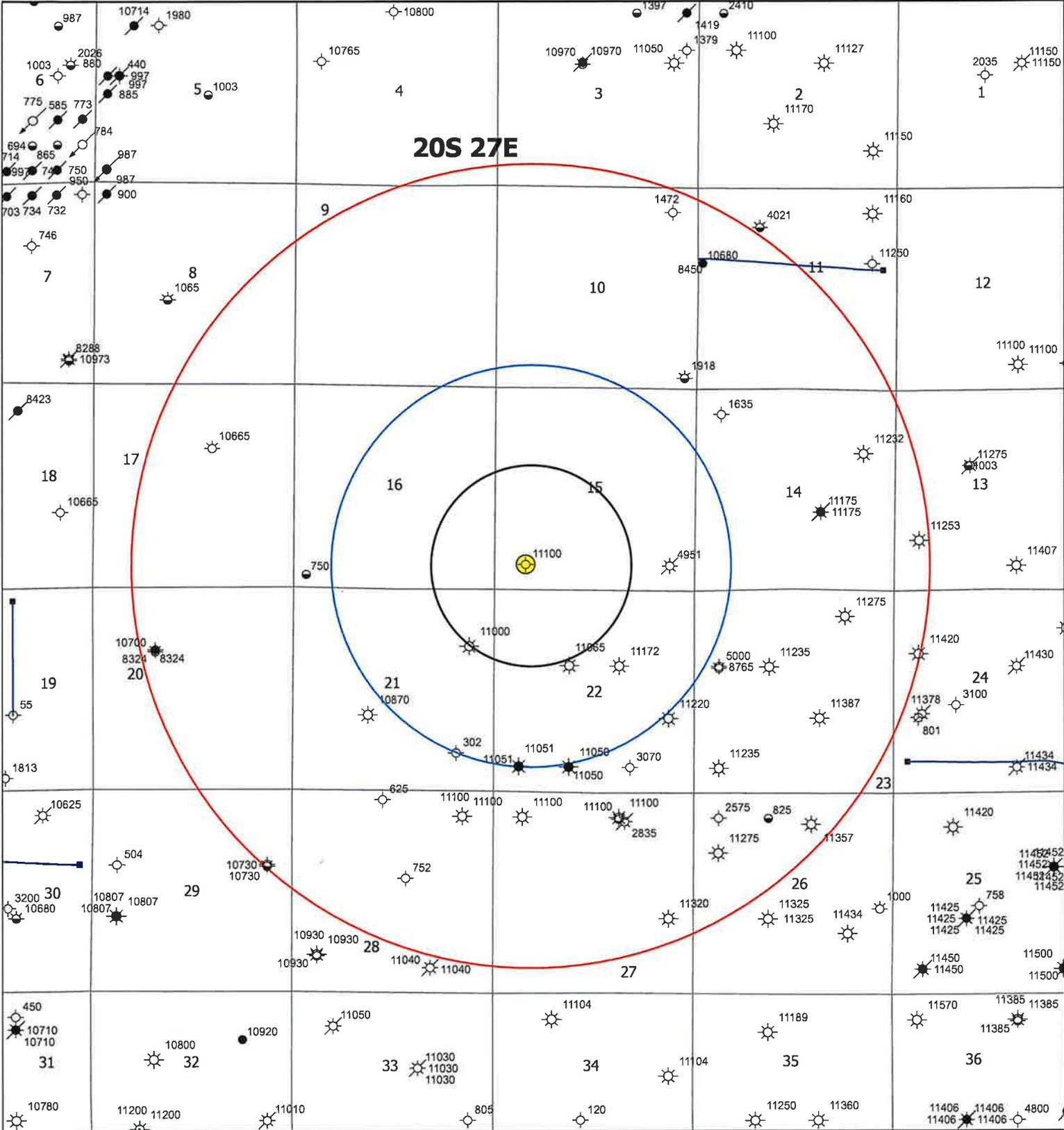
Title Sr. Regulatory Analyst

Signature 

Date 9/12/03

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

20S 27E



WELLS		
	Location (Permit)	
	Drilling in Progress	
	Oil Well	
	Gas Well	
	Oil & Gas Well	
	Dry w/Oil Shows	
	Dry w/Gas Shows	
	Dry w/Oil & Gas Shows	
	Dry Hole	
	Injection	
	Suspended	
	Plugged Gas Well	
	Plugged Oil Well	
	Plugged Oil & Gas Well	
	Abandoned Location	
	Unclassified, Co2, etc.	

MOC Mewbourne Oil Company

PENLON 15 FEDERAL SWD #1
ALL WELLS MAP
EDDY COUNTY, NEW MEXICO

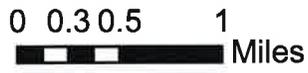
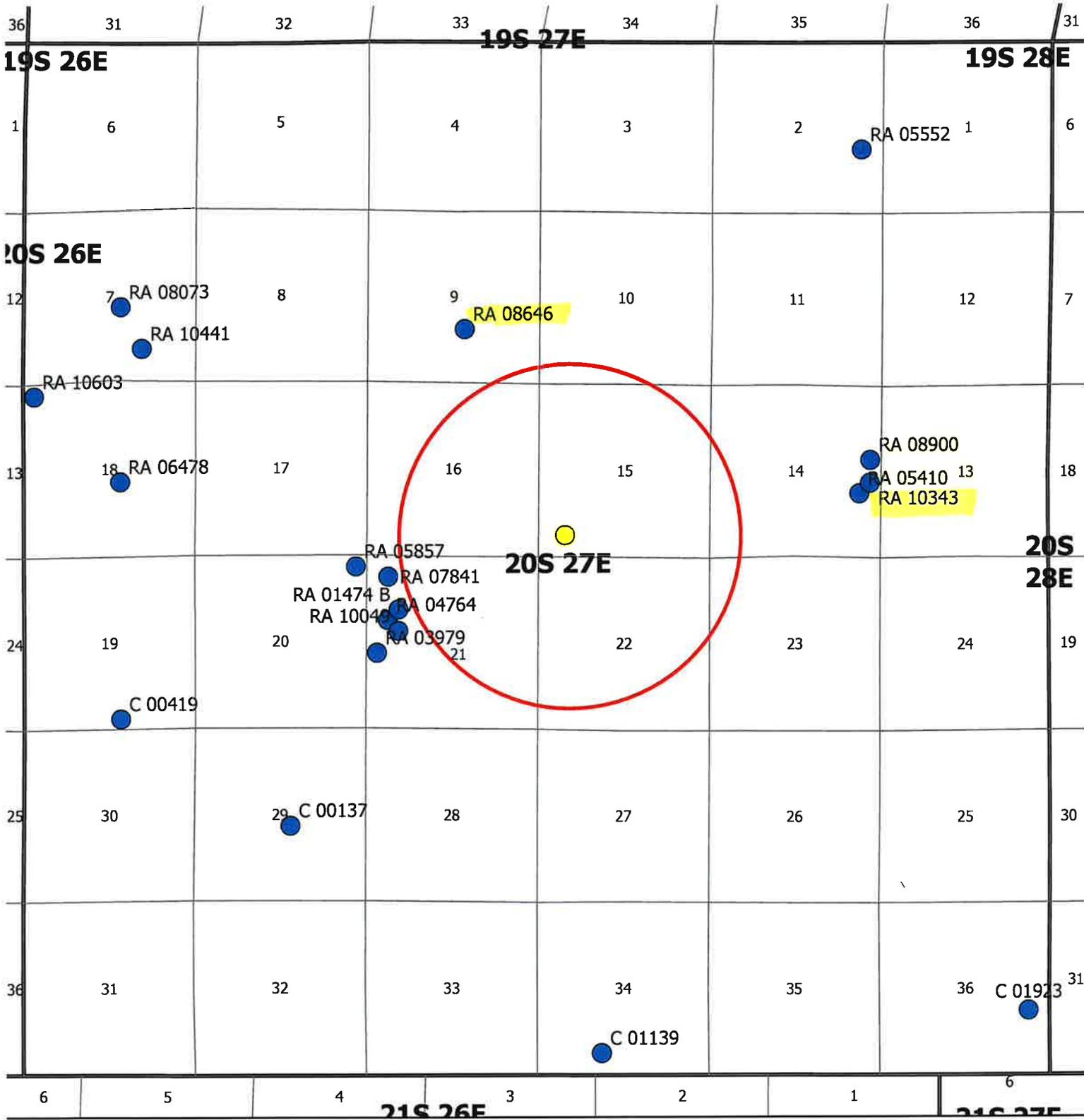
SCALE 1:40,000 Date: 14 April, 2022

MEMBOURNE OIL COMPANY
 PENLON 15 FEDERAL SWD #1 APPLICATION
 LISTING OF WELLS WITHIN THE 1/2 MILE AREA OF REVIEW

DIR	API	Lease Name	Well Num	Current Operator	Sec	Twp	Rge	Footage	Final Status	Current Status	Dryler Td	TVD (ft)	Prod Form	Spud Date	Comp Date	Plug Date	Plug Date
V	30015326100000	OXY JET DECK FEDERAL	1	OXY USA WTP LP	15	20S	27E	1660 FSL 810 FWL	DRYHOLE	PLUGGED	11000	11000		2003-06-02	2003-07-03	7/3/2003	7/3/2003
V	30015309980000	OXY BIG HOSS STATE	1	OXY USA WTP LP	21	20S	27E	1500 FNL 660 FEL	GAS	PRODUCING	11000	11000	ATOKA	2000-06-22	2000-11-29		
V	30015371820000	APOLLO 22 STATE	1	MEMBOURNE OIL CO	22	20S	27E	1980 FNL 1980 FWL	GAS	PRODUCING	11065	11065	MORROW	2009-09-29	2009-11-08		

THREE WELLS PENETRATE THE PROPOSED INJECTION ZONE WITHIN A 1/2 MILE RADIUS

WELL	TOP OF IN ZONE (FT)	TOC (FT)	METHOD
OXY BIG HOSS STATE	8912'	8000'	CALCULATED
APOLLO 22 STATE	8983'	850'	CBL
OXY JET DECK FEDERAL	8978'		DRYHOLE



	Fresh Water Locations
	SWD Wells
	1 MILE AOI

Mewbourne Oil Company	
PENLON 15 FEDERAL SWD #1 FRESH WATER LOCATIONS EDDY COUNTY, NEW MEXICO	
SCALE 1:60,000	Date: 14 April 2022

**MEWBOURNE OIL COMPANY
PENLON 15 FEDERAL SWD #1 PERMIT APPLICATION
LISTING OF NEARBY FRESH WATER WELLS
14-Apr-22**

POD Number	Source	q64	q16	q4	Sec	Tws	Rng	X	Y	Lat	Long	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller
RA 05552	Shallow		NE	SE	02	20S	27E	570844	3607265	32.600624	-104.24502	06/04/1968	04/15/1968	10/21/1968	145		
RA 08073	Shallow	NW	NW	SE	07	20S	27E	563883	3605760	32.587472	-104.319301	08/12/1992	08/30/1992	08/23/1993	200	198	MIKE CAMPBELL
RA 10441	Shallow		NE	SW	07	20S	27E	564085	3605372	32.583961	-104.317175	08/08/2003	09/06/2003	09/10/2003	130	13	VLOSICH, JOSEPH M., Jr.
RA 08646		SW	NW	SE	09	20S	27E	567117	3605568	32.585549	-104.284857						
RA 05410	Shallow		NE	SE	14	20S	27E	570842	3604049	32.571615	-104.245284	05/09/1972	05/13/1972	08/10/1972	81	66	
RA 10343	Shallow		NE	SE	14	20S	27E	570941	3604148	32.572502	-104.244222	12/16/2002	12/17/2002	01/06/2003	128	74	
RA 08900			SE	NE	14	20S	27E	570943	3604344	32.574427	-104.244186						
RA 06478			NW	SE	18	20S	27E	563886	3604124	32.572715	-104.31938						
RA 10603	Shallow		NW	NW	18	20S	27E	563076	3604910	32.579851	-104.3280						
C 00419			SW	SE	19	20S	27E	563904	3601904	32.552689	-104.31934	11/07/1952	01/18/1953	07/08/1958	1813		JENKINS & MCQUEEN
RA 05857			NE	NE	20	20S	27E	566104	3603346	32.565567	-104.295807			07/01/1973			
RA 03979	Shallow		NW	SW	21	20S	27E	566306	3602539	32.558276	-104.293712			01/06/1959	190		W.P. BLACK
RA 04764	Shallow		SW	NW	21	20S	27E	566407	3602845	32.56103	-104.292615	02/01/1963	02/02/1963	02/21/1963	171	150	SMITH, A.F.
RA 07841	Shallow		NW	NW	21	20S	27E	566408	3603251	32.564692	-104.292575	12/07/1990	12/20/1990	01/02/1991	200	140	JOHN B HAMMOND
RA 01474 B	Shallow		NE	SW	21	20S	27E	566506	3602944	32.561917	-104.291553						
RA 10049			SE	SW	21	20S	27E	566506	3602744	32.560113	-104.291567						
C 00137			NW	SE	29	20S	27E	565502	3600917	32.543692	-104.302389						
C 01139				SE	34	20S	27E	568442	3598796	32.524438	-104.271234						
C 01923	Shallow		NE	SE	36	20S	27E	572469	3599224	32.527988	-104.228325	09/02/1980	09/03/1980	09/08/1980	400		FELKINS, CLIFTON L.

AVG 346 107

water analysis attached

Water Lens

Powered by:  Water Lens™

Sample Information			
Date of Sample Analysis:	2022/04/14	Technician Name:	vfuentes
Date Sample was Taken:	04/12/2022	Sample Name:	Fresh Water
Analysis Performed by:	Enviroklean Product Development	API Well Number:	
Client:	Mewbourne Oil Company	Well Name:	RA10343
Reader Number:		Test Number:	
Water Lens Batch Number:	897		

Metals			
	Dilution Factor	mg/L	meq/L
Barium	1	Less than 2	Less than 0.029
Calcium	Calc	85.1	4.246
Iron II (Fe ²⁺)	1	Less than 0.03	Less than 0.0016
Iron III (Fe ³⁺)	Calc	Less than 0.03	Less than 0.0016
Total Dissolved Iron	1	Less than 0.03	Less than 0.0016
Magnesium	10	14.44	1.19
Sodium	Calc	Less than 37.1	Less than 0
Strontium	n/a	Test Not Run	-
Manganese	n/a	Test Not Run	-
Boron		Test Not Run	-
Potassium	10	19	0.5

Anions			
	Dilution Factor	mg/L	meq/L
Chloride	1	Less than 14	Less than 0.39
Sulfate	1	8	0
Nitrate	n/a	Test Not Run	-
Phosphate	1	0.46	0.01
Unfiltered Phosphate	n/a	Test not run	Test not run
Filtered Phosphate	n/a	Test not run	Test not run
Delta Phosphate		Test Not Run	-
Carbonate (as CO ₃ ²⁻)	Calc	-	-
Bicarbonate (as HCO ₃ ⁻)	Calc	144	2.4
Acetates/Formates (as Acetate)	Calc	137	2.3
Hydroxide (as OH ⁻)	Calc	0	0
Sulfide (Total)	n/a	Test not run	Test not run

Other			
	Dilution Factor		
Hydrogen Sulfide (H ₂ S)	Calc	1.0	mg/L
Turbidity	1	Less than 7	NTU's
Total Hardness	10.0	272.50	mg/L CaCO ₃
Oxidation/Reduction Potential (ORP)		115	millivolts
Temperature		77	Fahrenheit
Stiff & Davis Scaling Index (S&DSI)		0.12	
Langelier Scaling Index (LSI)		0.31	
Larson-Skold Index		0.22	
Skillman Index		1.251	
Barite Saturation Index		0.43	
Gypsum Saturation Index		-2.07	
ATP (picograms/mL)	Calc	148	
Dissolved CO ₂ (ppm)	Calc	5	
pH	n/a	7.86	
Total Alkalinity	1	234	mg/L CaCO ₃
Total Dissolved Solids (TDS)	Calc	371	mg/L
Electrical Conductivity	Calc	550	uS/cm
Electrical Resistivity	Calc	1,819.5	Ohm*cm
Manganese/Iron Ratio		Test Not Run	
Specific Gravity		1.0003	

Comments	

Water Lens

Powered by:  Water Lens™

Sample Information			
Date of Sample Analysis:	2022/04/14	Technician Name:	vfuentes
Date Sample was Taken:	04/12/2022	Sample Name:	Fresh Water
Analysis Performed by:	Enviroklean Product Development	API Well Number:	
Client:	Mewbourne Oil Company	Well Name:	RA08646
Reader Number:		Test Number:	
Water Lens Batch Number:	897		

Metals			
	Dilution Factor	mg/L	meq/L
Barium	1	Less than 2	Less than 0.029
Calcium	Calc	750	37.4
Iron II (Fe ²⁺)	1	Less than 0.03	Less than 0.0016
Iron III (Fe ³⁺)	Calc	Less than 0.03	Less than 0.0016
Total Dissolved Iron	1	Less than 0.03	Less than 0.0016
Magnesium	1,000	202.00	16.60
Sodium	Calc	Less than 230	Less than 0.01
Strontium	n/a	Test Not Run	-
Manganese	n/a	Test Not Run	-
Boron		Test Not Run	-
Potassium	10	19	0.5

Anions			
	Dilution Factor	mg/L	meq/L
Chloride	1	208	6
Sulfate	10	1,010	21
Nitrate	n/a	Test Not Run	-
Phosphate	1	0.58	0.02
Unfiltered Phosphate	n/a	Test not run	Test not run
Filtered Phosphate	n/a	Test not run	Test not run
Delta Phosphate		Test Not Run	-
Carbonate (as CO ₃ ²⁻)	Calc	-	-
Bicarbonate (as HCO ₃ ⁻)	Calc	66	1.1
Acetates/Formates (as Acetate)	Calc	68	1.2
Hydroxide (as OH ⁻)	Calc	0	0
Sulfide (Total)	n/a	Test not run	Test not run

Other			
	Dilution Factor		
Hydrogen Sulfide (H ₂ S)	Calc	1.0 mg/L	
Turbidity	1	Less than 7 NTU's	
Total Hardness	100.0	2,710.00 mg/L CaCO ₃	
Oxidation/Reduction Potential (ORP)		110 millivolts	
Temperature		77 Fahrenheit	
Stiff & Davis Scaling Index (S&DSI)		0.38	
Langelier Scaling Index (LSI)		0.87	
Larson-Skold Index		30.31	
Skillman Index		1.251	
Barite Saturation Index	NA		
Gypsum Saturation Index		0.48	
ATP (picograms/ml)	Calc	1006	
Dissolved CO ₂ (ppm)	Calc	5	
pH	n/a	7.89	
Total Alkalinity	1	112 mg/L CaCO ₃	
Total Dissolved Solids (TDS)	Calc	2,300 mg/L	
Electrical Conductivity	Calc	4,900 uS/cm	
Electrical Resistivity	Calc	205.9 Ohm*cm	
Manganese/Iron Ratio		Test Not Run	
Specific Gravity		1.0020	

Comments	

Water Lens

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Sample Information			
Date of Sample Analysis:	2021/07/06	Technician Name:	v Fuentes
Date Sample was Taken:	07/01/2021	Sample Name:	Double Barrel 31 Fed
Analysis Performed by:	EPD	API Well Number:	
Client:	Mewbourne Oil Company	Well Name:	Produced Water
Reader Number:		Test Number:	Ruger 31 B3EH Fed #2H
Water Lens Batch Number:	841		

Metals			
	Dilution Factor	mg/L	meq/L
Barium	10	Less than 20	Less than 0.29
Calcium	Calc	6260	312.4
Iron II (Fe ²⁺)	100	23.03	0.82
Iron III (Fe ³⁺)	Calc	Less than 3	Less than 0.16
Total Dissolved Iron	100	24.10	1.29
Magnesium	1,000	1,032.00	85.00
Sodium	Calc	49000	2130
Strontium	n/a	Test Not Run	-
Manganese	n/a	Test Not Run	-
Boron		Test Not Run	-
Potassium	100	931	23.8

Anions			
	Dilution Factor	mg/L	meq/L
Chloride	100	90,090	2,541
Sulfate	10	670	14
Nitrate	n/a	Test Not Run	-
Phosphate	100	48.57	1.53
Unfiltered Phosphate	n/a	Test not run	Test not run
Filtered Phosphate	n/a	Test not run	Test not run
Delta Phosphate		Test Not Run	-
Carbonate (as CO ₃ ²⁻)	Calc	-	-
Bicarbonate (as HCO ₃ ⁻)	Calc	86	1.4
Acetates/Formates (as Acetate)	Calc	91	1.5
Hydroxide (as OH ⁻)	Calc	0	0
Sulfide (Total)	n/a	Test not run	Test not run

Other			
	Dilution Factor		
Hydrogen Sulfide (H ₂ S)	Calc	0.5 mg/L	
Turbidity	1	38 NTU's	
Total Hardness	1,000.0	19,890.00 mg/L CaCO ₃	
Oxidation/Reduction Potential (ORP)		-18 millivolts	
Temperature		77 Fahrenheit	
Stiff & Davis Scaling Index (S&DSI)		-1.38	
Langelier Scaling Index (LSI)		-0.23	
Larson-Skold Index		2210.31	
Skilman Index		1.251	
Barite Saturation Index		1.65	
Gypsum Saturation Index		0.13	
ATP (picograms/mL)	Calc	Test not run	
Dissolved CO ₂ (ppm)	Calc	210	
pH	n/a	5.83	
Total Alkalinity	1	148 mg/L CaCO ₃	
Total Dissolved Solids (TDS)	Calc	148,200 mg/L	
Electrical Conductivity	Calc	193,400 uS/cm	
Electrical Resistivity	Calc	5.2 Ohm*cm	
Manganese/Iron Ratio		Test Not Run	
Specific Gravity		1.1030	

Comments	
Bone Springs	

Water Lens

Powered by:  Water Lens™

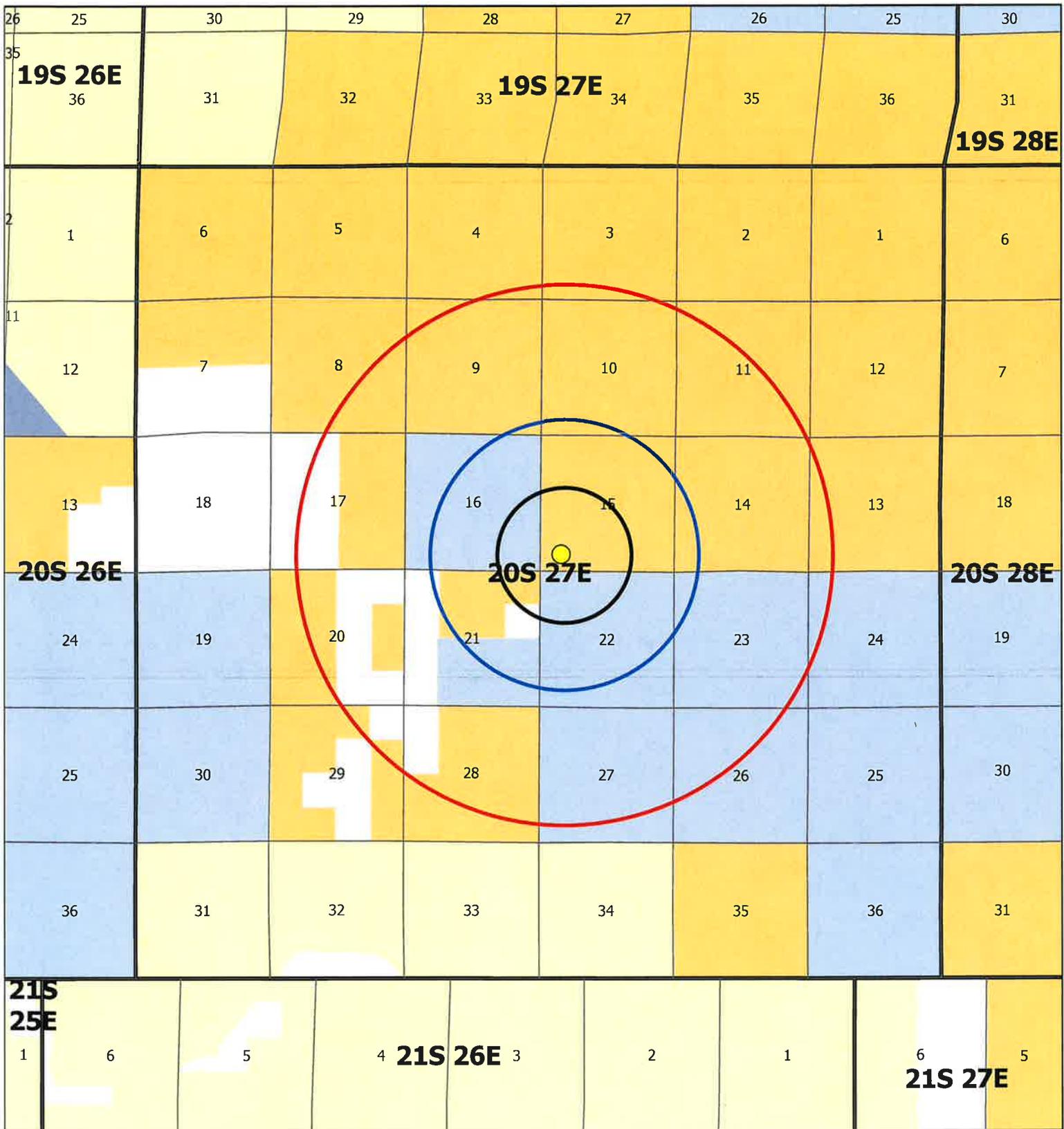
Sample Information			
Date of Sample Analysis:	2021/07/06	Technician Name:	vluentes
Date Sample was Taken:	07/01/2021	Sample Name:	Chicharran 12 Fed SWD#1
Analysis Performed by:	EPD	API Well Number:	
Client:	Mewbourne Oil Company	Well Name:	Produced Water
Reader Number:		Test Number:	Normandy 31/32 WOLI Fed Com #1H
Water Lens Batch Number:	B41		

Metals			
	Dilution Factor	mg/L	meq/L
Barium	1	11	0
Calcium	Calc	5440	271.4
Iron II (Fe ²⁺)	100	53.10	1.90
Iron III (Fe ³⁺)	Calc	Less than 3	Less than 0.16
Total Dissolved Iron	100	53.10	2.85
Magnesium	1,000	861.00	70.80
Sodium	Calc	47000	2040
Strontium	n/a	Test Not Run	-
Manganese	n/a	Test Not Run	-
Boron		Test Not Run	-
Potassium	100	909	23.2

Anions			
	Dilution Factor	mg/L	meq/L
Chloride	100	84,530	2,384
Sulfate	10	810	17
Nitrate	n/a	Test Not Run	-
Phosphate	100	36.97	1.17
Unfiltered Phosphate	n/a	Test not run	Test not run
Filtered Phosphate	n/a	Test not run	Test not run
Delta Phosphate		Test Not Run	-
Carbonate (as CO ₃ ²⁻)	Calc	-	-
Bicarbonate (as HCO ₃ ⁻)	Calc	39	0.6
Acetates/Formates (as Acetate)	Calc	32	0.5
Hydroxide (as OH ⁻)	Calc	0	0
Sulfide (Total)	n/a	Test not run	Test not run

Other						
Hydrogen Sulfide (H ₂ S)	Dilution Factor	Calc	0.5 mg/L	ATP (picograms/ml)	Calc	Test not run
Turbidity	1		104 NTU's	Dissolved CO ₂ (ppm)	Calc	160
Total Hardness	1,000.0		17,140.00 mg/L CaCO ₃	pH	n/a	6.02
Oxidation/Reduction Potential (ORP)			-8 millivolts	Total Alkalinity	1	59 mg/L CaCO ₃
Temperature			77 Fahrenheit			
Stiff & Davis Scaling Index (S&DSI)			-1.72	Total Dissolved Solids (TDS)	Calc	139,700 mg/L
Langelier Scaling Index (LSI)			-0.54	Electrical Conductivity	Calc	182,800 uS/cm
Larson-Skold Index			4579.95	Electrical Resistivity	Calc	5.5 Ohm*cm
Skillman Index			1.251	Manganese/Iron Ratio		Test Not Run
Barite Saturation Index			1.80	Specific Gravity		1.0970
Gypsum Saturation Index			0.18			

Comments	
Wolfcamp	



N

- SWD Wells
- 2 Mile Buffer
- 1 Mile Buffer
- 1/2 Mile Buffer
- PB_County
- PB_section_gcdb
- PB_township_gcdb

- Dept. of Defense
- Dept. of Energy
- Fish & Wildlife Service
- Forest Service
- Tribal
- Other Federal Agency
- Private
- State
- State Game & Fish
- State Park
- National Park Service

Surface Ownership

- Bureau of Land Management
- Bureau of Reclamation
- Dept. of Agriculture

Ownership

- Bureau of Land Management
- Bureau of Reclamation
- Dept. of Agriculture

Mewbourne Oil Company

PENLON 15 FEDERAL SWD #1
 SURFACE OWNERSHIP
 EDDY COUNTY, NEW MEXICO

SCALE 1:60,000

Date:
14 April, 2022



Listing of Notified Persons

Penlon 15 Federal SWD #1 Application
660' FSL & 810' FWL
Section 15, T20S, R27E, Eddy County, NM

Surface Owner

Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220

Other State or Federal Surface Owners within 1-Mile

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

Offsetting Operators Or Leasehold Owners Within 1/2 Mile

Section 15, 20S, 27E

Fasken Oil and Ranch
Fasken Land & Minerals Ltd.
6101 Holiday Hill Road
Midland, TX 79707

OXY USA WTP Limited Partnership
5 Greenway Plaza, Suite 110
Houston, Texas 77046

Section 16, 20S, 27E

Tascosa Energy Partners LLC
901 W. Missouri Ave
Midland, TX 79701

Canyon Draw Resources, LLC
3333 Lee Parkway, Suite 750
Dallas, Texas 75219

N/2, Section 21, 20S, 27E

OXY USA WTP Limited Partnership
OXY USA Inc.
5 Greenway Plaza, Suite 110
Houston, Texas 77046

Fasken Oil and Ranch
Fasken Land & Minerals Ltd.
6101 Holiday Hill Road
Midland, TX 79707

Mewbourne Oil Company
P.O. 7698
Tyler, TX 75711

W/2, Section 22, 20S, 27E

Mewbourne Oil Company
P.O. 7698
Tyler, TX 75711

E/2 Section 22, 20S, 27E

Premier Oil and Gas Inc.
901 Waterfall Way, Suite 201
Richardson, TX 75080

OXY USA WTP Limited Partnership
5 Greenway Plaza, Suite 110
Houston, Texas 77046

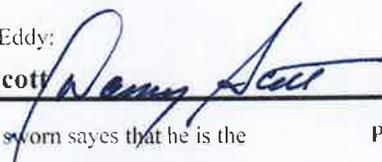
Affidavit of Publication

No. 26114

State of New Mexico

County of Eddy:

Danny Scott



being duly sworn says that he is the **Publisher** of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

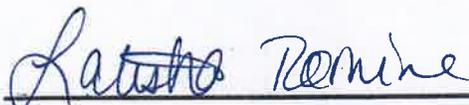
Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/day on the same day as follows:

First Publication	<u>April 21, 2022</u>
Second Publication	_____
Third Publication	_____
Fourth Publication	_____
Fifth Publication	_____
Sixth Publication	_____
Seventh Publication	_____

Subscribed and sworn before me this 21st day of April 2022

STATE OF NEW MEXICO
 NOTARY PUBLIC
 Latisha Romine
 Commission Number 1076338
 My Commission Expires May 12, 2023



Latisha Romine
Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal 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 re-enter and complete the Penlon 15 Federal SWD #1, the former OXY Jet Deck Federal #1 dryhole, as a salt water disposal well.

The Penlon 15 Federal SWD #1 is located 660' FSL and 810' FWL, Unit Letter M, Section 15, Township 20 South, Range 27 East, NMPM, Eddy County, New Mexico. The well will dispose of water produced from nearby operated oil and gas wells into the Cisco formation through a perforated interval from a depth of 8,978 feet to 9,328 feet. Expected maximum injection rates are 15,000 BWPD at a maximum injection pressure of 1,796 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 10.4 miles Northwest of Carlsbad, New Mexico.

Published in the Artesia Daily Press, Artesia, N.M., April 21, 2022 Legal No. 26114.



MEWBOURNE
OIL COMPANY

April 25, 2022

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

Re: Penlon 15 Federal SWD #1
Sec 15, Twp 20S, Rge 27E
Eddy County, NM

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

Tim Harrington
Reservoir Engineer
tharrington@mewbourne.com

STATEMENT REGARDING SEISMICITY

The proposed Penlon 15 Federal SWD is located within the 6-10 mile radius envelope of the recently created Dagger Draw Category 1 Seismicity Response Area (SRA). This SRA was implemented due to the occurrence of two earthquakes having a magnitude greater than 2.5, within 10 miles of each other, and within a 30 day period. The proposed Penlon 15 SWD is located 9 miles from the 3/25/22 earthquake and 10.4 miles from the 4/02/22 earthquake (per USGS data).

Mewbourne is a subscriber to the Nanometrics WTX Array and the table below compares the location, depth, and magnitude of the earthquakes to the USGS interpretation. The WTX Array interpretation utilized significantly more stations (75 vs 18) therefore it's probably more accurate. The Nanometrics interpretation shows that the average earthquake depth is 2.85 miles (>15,000'), similar magnitudes, and the epicenter locations are different by 1.5 – 2.6 miles. The map below connects the relative epicenter location (USGS vs Nanometrics) for the same event.

DAGGER DRAW SEISMICITY RESPONSE AREA

USGS						NANOMETRICS					
DATE	LAT	LONG	MAGNITUDE	DEPTH (MI)	# STATIONS	LAT	LONG	MAGNITUDE	DEPTH (MI)	# STATIONS	DIFF (MI)
3/25/2022	32.548	-104.426	2.6	2.6	18	32.5104	-104.426	2.71	2.8	75	2.6
4/2/2022	32.515	-104.443	2.8	1.14	18	32.5045	-104.42	2.85	2.9	76	1.5



USGS



NANOMETRICS
 WTX ARRAY

Mewbourne Oil Company does not believe that the injection of produced water into the Cisco Formation, at the proposed location, will have any impact on seismicity in the area. The depth of our injection zone is significantly shallower (9,300' vs 15,000') than the depths of the recent earthquakes and there are no known faults that would connect the Cisco to the Basement. The closest known mapped "deep" fault, that is documented in public data, is approximately 12.4 miles southwest of our proposed SWD.

Mewbourne Oil Company
Penlon 15 Federal SWD #1
C-108 Attachment
April 25, 2022

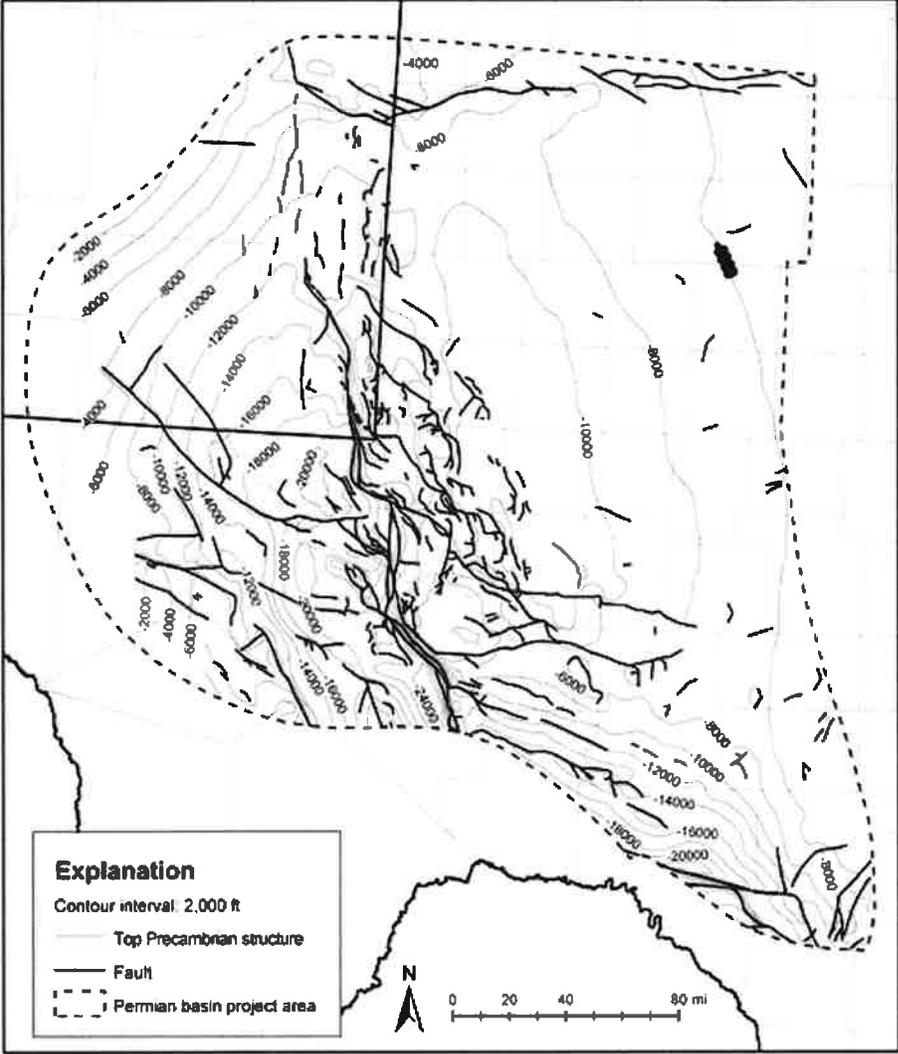
The closest Upper Penn Field SWD, unplugged but shut-in, is located around 7.7 miles to the southwest.
Below are some details regarding this well.

API NUMBER	NAME	WNUN	STATUS	DISPOSAL FORMATION	SEC	TWP	RGE	FOOTAGES	TOP INT	BASE INT	OPERATOR	DW / PERF	APPROVAL DAT	PERM #
300150012900	SPRING SWD	#001	ACTIVE	UPPER PENN	4	21S	25E	660 FAL, 830 FEL	8300	8400	DAVID ARRINGTON	PERF	2/3/1970	R-3916

Timothy R. Harrington



Reservoir Engineer
tharrington@mewbourne.com
903-534-7647



Precambrian Structure Map In the Permian Basin (Ruppel et al.)

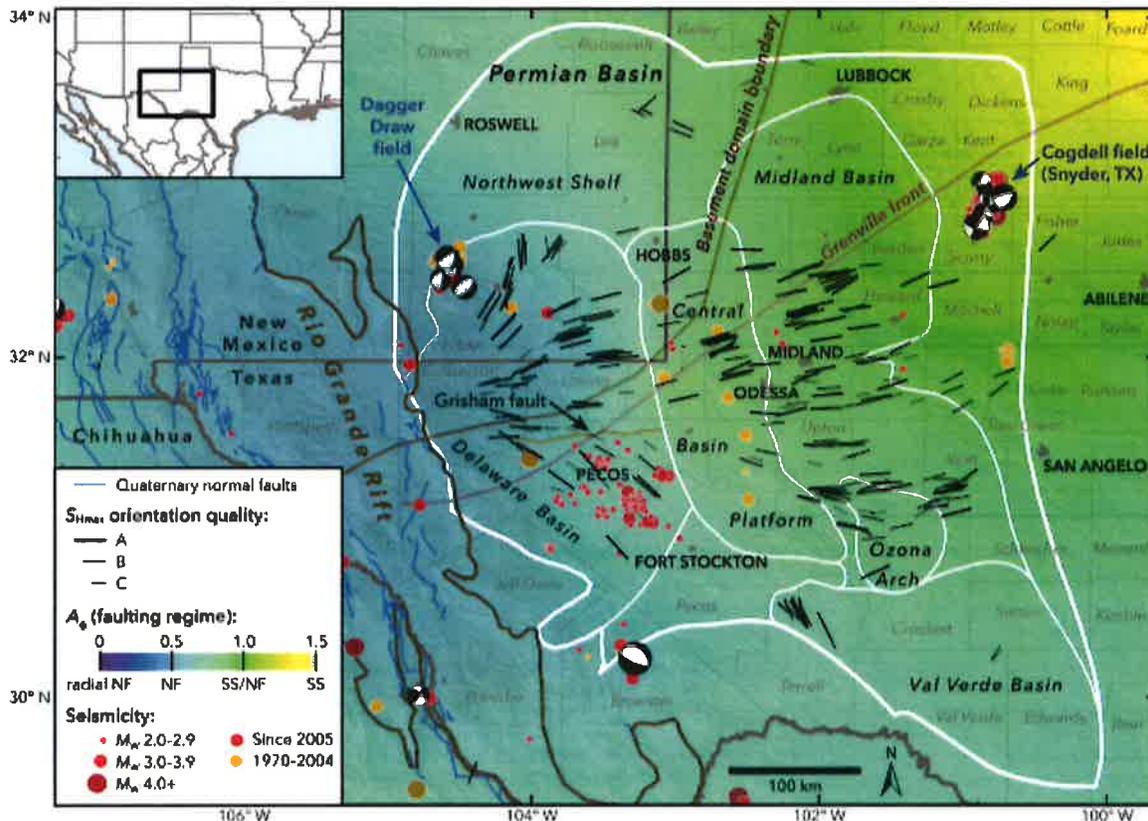


Figure 1. State of stress in the Permian Basin, Texas and New Mexico. Black lines are the measured orientations of S_{max} , with line length scaled by data quality. The colored background is an interpolation of measured relative principal stress magnitudes (faulting regime) expressed using the A_0 parameter (see text for details) of Simpson (1997). Blue lines are fault traces known to have experienced normal-sense offset within the past 1.6 Ma, from the USGS Quaternary Faults and Folds Database (Crone and Wheeler, 2000). The boundary between the Shawnee and Mazatzal basement domains is from Lund et al. (2015), and the Precambrian Grenville Front is from Thomas (2006). The Permian Basin boundary is from the U.S. Energy Information Administration, and the subbasin boundaries are from the Texas Bureau of Economic Geology Permian Basin Geological Synthesis Project. Earthquakes are from the USGS National Earthquake Information Center, the TexNet Seismic Monitoring Program, and Gan and Frohlich (2013). Focal mechanisms are from Saint Louis University (Herrmann et al., 2011).

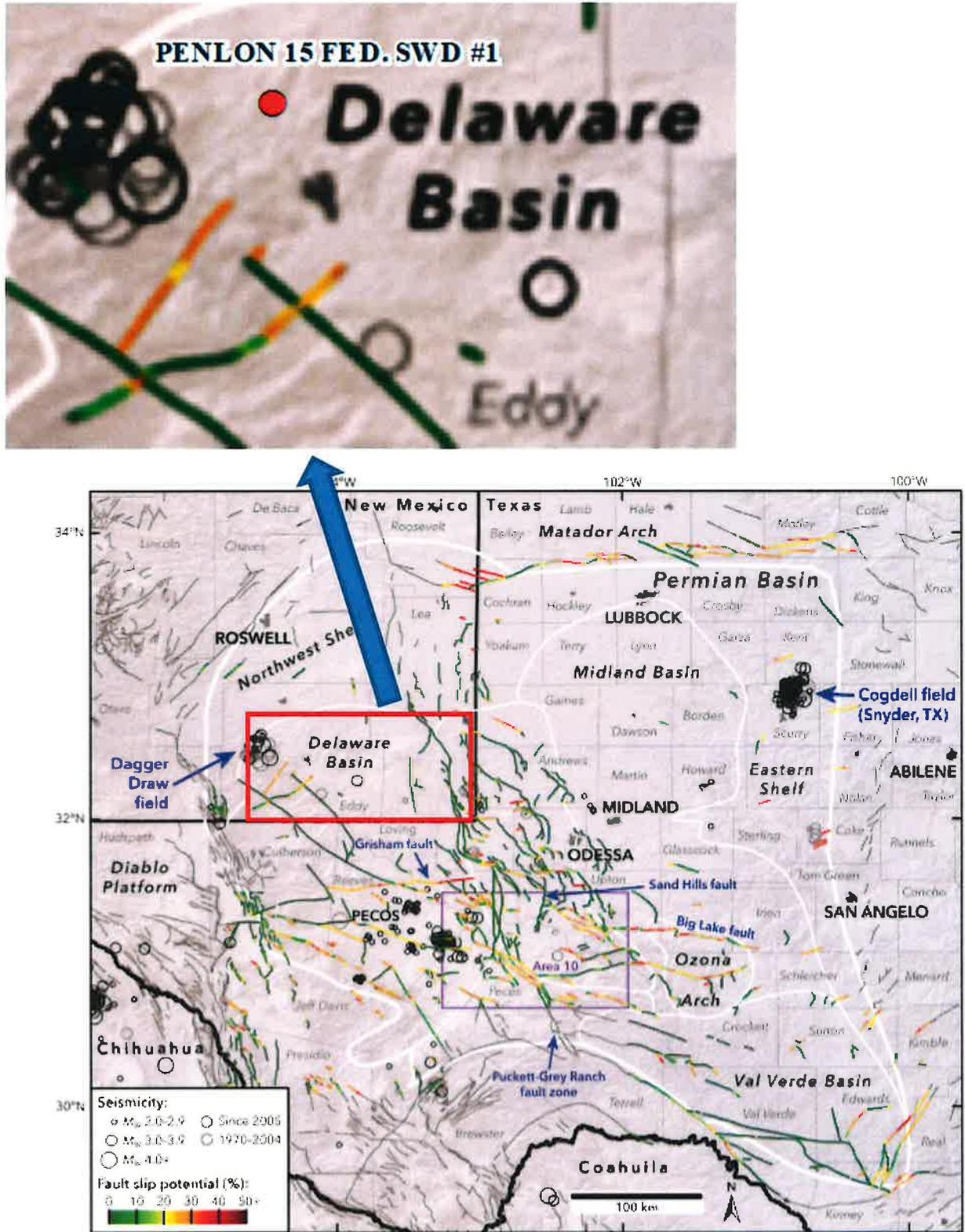


Figure 3. Results of our probabilistic FSP analysis across the Permian Basin. Data sources are as in Figures 1 and 2.

Mewbourne Oil Company
Penlon 15 Federal SWD #1
C-108 Attachment
April 25, 2022

References

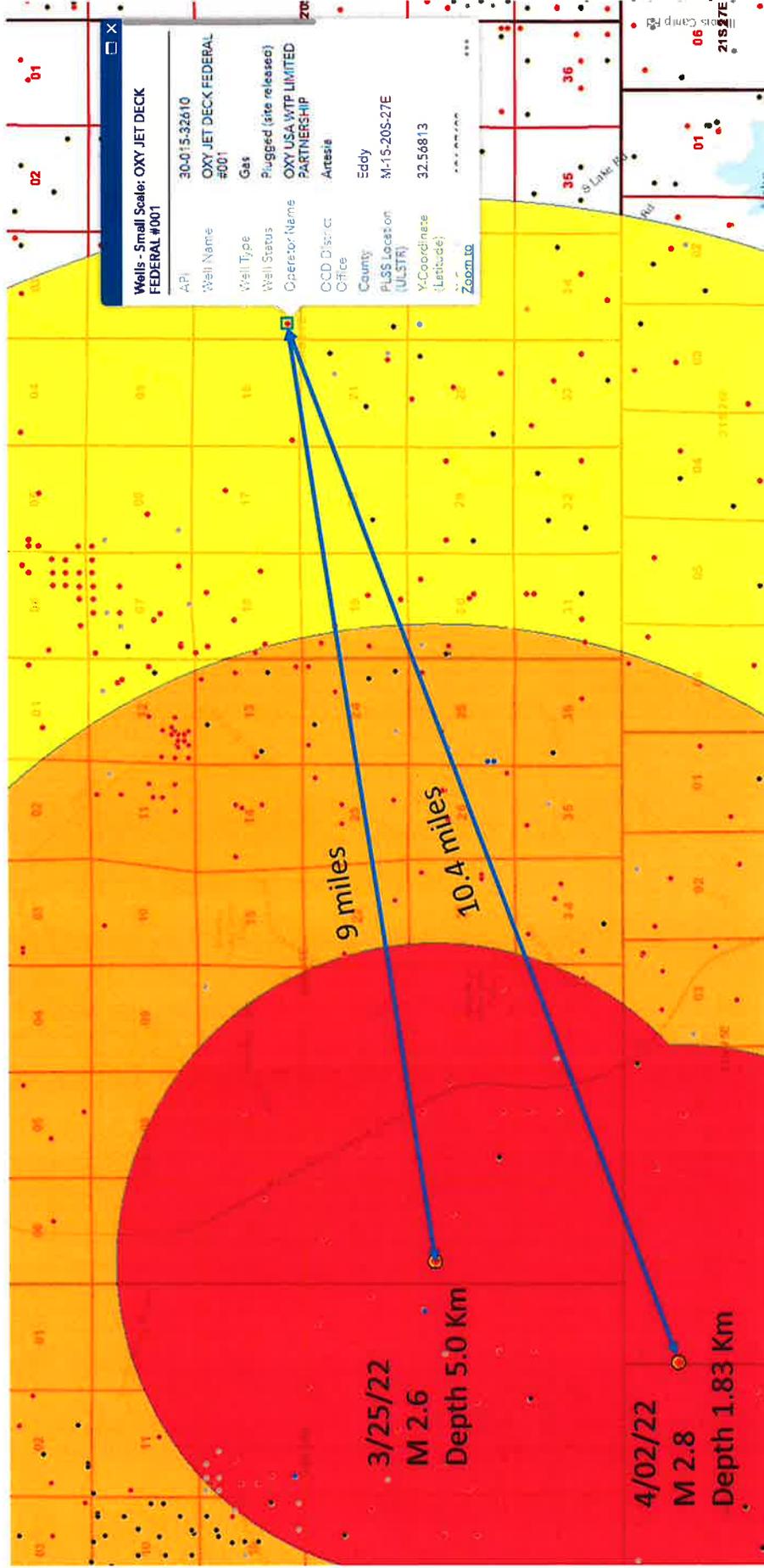
Ewing, T.E., R.T. Budnik, J.T. Ames, and D.M. Ridner, 1990, Tectonic Map of Texas: Bureau of Economic Geology, University of Texas at Austin.

Green, G.N., and G.E. Jones, 1997, The digital geologic map of New Mexico in ARC/INFO format: U.S. Geological Survey Open-File Report.

Jens-Erik Lund Snee and Mark D. Zoback, 2018, State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity: The Leading Edge, February 2018.

Ruppel, S.C., R.H. Jones, C.L. Breton, and J.A. Kane, 2005 Preparation of maps depicting geothermal gradient and Precambrian structure in the Permian Basin: Bureau of Economic Geology, Jackson School of Geosciences, The University of Texas at Austin, Austin, TX.

Penlon 15 Federal SWD #1 – Dagger Draw Category 1 Seismic Response Area



NOTE: USGS data posted

B'

NE

500

0

-500

-1000

-1500

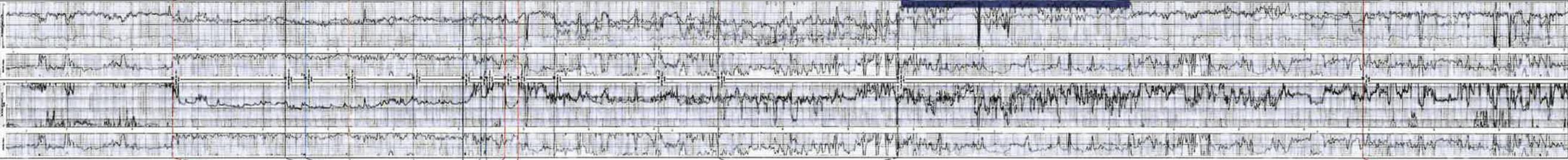
24E-19S-27E

DATE: 11/19/2013
 TIME: 11:00:00
 PROJECT: 24E-19S-27E
 WELL: 24E-19S-27E
 SURFACE: 24E-19S-27E
 DEPTH: 10000
 LOG: 24E-19S-27E



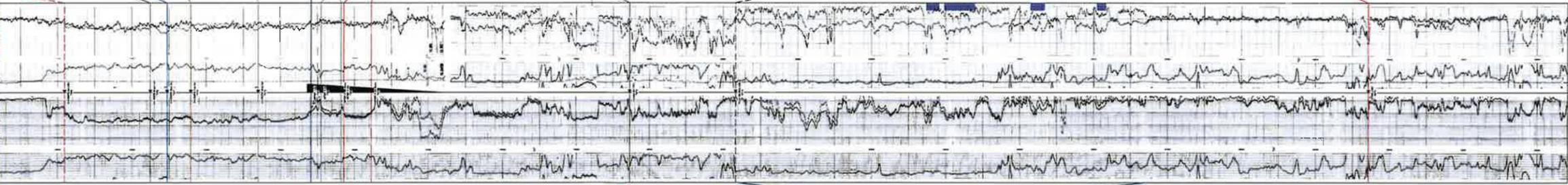
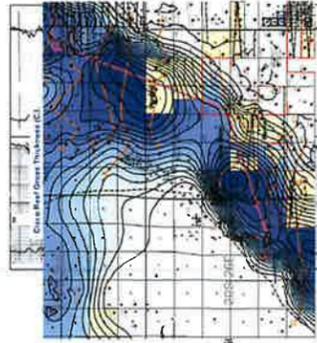
15M-20S-27E

DATE: 11/19/2013
 TIME: 11:00:00
 PROJECT: 15M-20S-27E
 WELL: 15M-20S-27E
 SURFACE: 15M-20S-27E
 DEPTH: 10000
 LOG: 15M-20S-27E



26F-20S-26E

DATE: 11/19/2013
 TIME: 11:00:00
 PROJECT: 26F-20S-26E
 WELL: 26F-20S-26E
 SURFACE: 26F-20S-26E
 DEPTH: 10000
 LOG: 26F-20S-26E



B

SW

Top 3rd BSPG SD

Top Wellcamp

Canyon Shale

-500

Penn SH Mitr

CISCO Reef

-1000

Top Strawn

-1500

CISCO Reef

CISCO Reef

Core Jet Peak Federal 1 Cisco Reef SWD Potential (B-2)

3rd BSPG through the Strawn



Where

Ship From
 Mewbourne Oil Company, Kimberly Ripka
 3901 South Broadway, Tyler, TX 75701
 rmcDaniel@mewbourne.com, 903-561-2900

Ship To
 Tascosa Energy Partners, LLC
 901 West Missouri Avenue, Midland, TX 79701

What

Package 1 - 1ZF698E80191295739

Weight
0.5 lbs

Dimensions
UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Tuesday April 26, 2022 , 10:30 AM

Additional Options

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1	
UPS Next Day Air	\$44.26
Fuel Surcharge	\$9.18

Subtotals

Shipping Fees	\$53.44
Combined Charges	\$53.44
Contract Rate	\$34.74

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment.
 Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

All shipments are subject to the UPS Tariff/Terms and Conditions of Service ("UPS terms") in effect on the date of shipment, which are available at www.ups.com/terms. Pursuant to the UPS Terms, UPS's maximum liability for loss or damage to each domestic package or international shipment is limited to \$100, unless the shipper declares a greater value in the declared value field of the UPS shipping system used and pays the applicable charge (in which case UPS's maximum liability is the declared value). Special terms apply to some services and articles. Please review the UPS Terms for liability limits, exclusions from liability, maximum declared values, prohibited items, and other important terms of service. The shipper agrees that in the absence of a greater declared value, \$100 value is a reasonable limitation under the circumstances of the transportation. Claims not timely made (generally noticed within sixty days and filed within nine months, but filed within sixty days for international shipments) are deemed waived and will not be paid. See the UPS Terms for details. Under no circumstances will UPS be liable for any special, incidental, or consequential damages.

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZF698E80191295739

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

04/25/2022

Delivered On

04/26/2022 9:33 A.M.

Delivered To

901 W MISSOURI AVE
MIDLAND, TX, 79701, US

Received By

OFFICE

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 04/26/2022 2:43 P.M. EST



Where

Ship From
Mewbourne Oil Company, Kimberly Ripka
3901 South Broadway, Tyler, TX 75701
rmcdaniel@mewbourne.com, 903-561-2900

Ship To
Bureau of Land Management
620 East Greene Street, CARLSBAD, NM 88220

What

Package 1 - 1ZF698E80191473957

Weight
0.5 lbs

Dimensions
UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Tuesday April 26, 2022 , End of Day

Additional Options

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1	
UPS Next Day Air	\$44.26
Delivery Area Surcharge	\$3.55
Fuel Surcharge	\$9.92

Subtotals

Shipping Fees	\$57.73
Combined Charges	\$57.73
Contract Rate	\$39.03

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment.
Your invoice may vary from the displayed reference rates

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Note: This document is not an invoice.

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Where

Ship From
 Mewbourne Oil Company, Kimberly Ripka
 3901 South Broadway, Tyler, TX 75701
 rmcdaniel@mewbourne.com, 903-561-2900

Ship To
 Premier Oil and Gas Inc.
 901 Waterfall Way, Suite 201, RICHARDSON, TX
 75080

What

Package 1 - 1ZF698E80196251062

Weight
0.5 lbs

Dimensions
UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Tuesday April 26, 2022 , 10:30 AM

Additional Options

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1	
UPS Next Day Air	\$28.32
Fuel Surcharge	\$5.88

Subtotals

Shipping Fees	\$34.20
Combined Charges	\$34.20
Contract Rate	\$22.23

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment.
 Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

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Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZF698E80196251062

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

04/25/2022

Delivered On

04/26/2022 10:27 A.M.

Delivered To

901 WATERFALL WAY
201
RICHARDSON, TX, 75080, US

Received By

CLARK

Left At

Inside Delivery

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 04/26/2022 2:39 P.M. EST



Where

Ship From
 Mewbourne Oil Company, Kimberly Ripka
 3901 South Broadway, Tyler, TX 75701
 rmcdaniel@mewbourne.com, 903-561-2900

Ship To
 Fasken Land & Minerals Ltd, Fasken Oil and Ranch
 6101 Holiday Hill Road, MIDLAND, TX 79707

What

Package 1 - 1ZF698E80197777672

Weight
0.5 lbs

Dimensions
UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Tuesday April 26, 2022 , 10:30 AM

Additional Options

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1	
UPS Next Day Air	\$44.26
Fuel Surcharge	\$9.18

Subtotals

Shipping Fees	\$53.44
Combined Charges	\$53.44
Contract Rate	\$34.74

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment.
 Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

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Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZF698E80197777672

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

04/25/2022

Delivered On

04/26/2022 10:09 A.M.

Delivered To

6101 HOLIDAY HILL RD
MIDLAND, TX, 79707, US

Received By

MORENO

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 04/26/2022 2:41 P.M. EST



Where

Ship From
Mewbourne Oil Company, Kimberly Ripka
3901 South Broadway, Tyler, TX 75701
rmcdaniel@mewbourne.com, 903-561-2900

Ship To
Canyon Draw Resources, LLC
3333 Lee Parkway, Suite 750, DALLAS, TX 75219

What

Package 1 - 1ZF698E80197090485

Weight
0.5 lbs

Dimensions
UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Tuesday April 26, 2022 , 10:30 AM

Additional Options

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1	
UPS Next Day Air	\$28.32
Fuel Surcharge	\$5.88

Subtotals

Shipping Fees	\$34.20
Combined Charges	\$34.20
Contract Rate	\$22.23

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment.
Your invoice may vary from the displayed reference rates

Note: This document is not an invoice.

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Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZF698E80197090485

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

04/25/2022

Delivered On

04/26/2022 10:08 A.M.

Delivered To

3333 LEE PKWY
7 750
DALLAS, TX, 75219, US

Received By

JILL

Left At

Front Desk

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 04/26/2022 2:42 P.M. EST



Where

Ship From
Mewbourne Oil Company, Kimberly Ripka
3901 South Broadway, Tyler, TX 75701
rmcdaniel@mewbourne.com, 903-561-2900

Ship To
New Mexico State Land Office, Melissa Armijo
310 Old Santa Fe Trail, SANTA FE, NM 87501
505-827-5760

What

Package 1 - 1ZF698E80194040543

Weight
0.5 lbs

Dimensions
UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Tuesday April 26, 2022 , 10:30 AM

Additional Options

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1	
UPS Next Day Air	\$47.39
Fuel Surcharge	\$9.83

Subtotals

Shipping Fees	\$57.22
Combined Charges	\$57.22
Contract Rate	\$37.19

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment.
Your invoice may vary from the displayed reference rates

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All shipments are subject to the UPS Tariff/Terms and Conditions of Service ("UPS terms") in effect on the date of shipment, which are available at www.ups.com/terms. Pursuant to the UPS Terms, UPS's maximum liability for loss or damage to each domestic package or international shipment is limited to \$100, unless the shipper declares a greater value in the declared value field of the UPS shipping system used and pays the applicable charge (in which case UPS's maximum liability is the declared value). Special terms apply to some services and articles. Please review the UPS Terms for liability limits, exclusions from liability, maximum declared values, prohibited items, and other important terms of service. The shipper agrees that in the absence of a greater declared value, \$100 value is a reasonable limitation under the circumstances of the transportation. Claims not timely made (generally noticed within sixty days and filed within nine months, but filed within sixty days for international shipments) are deemed waived and will not be paid. See the UPS Terms for details. Under no circumstances will UPS be liable for any special, incidental, or consequential damages.

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZF698E80194040543

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

04/25/2022

Delivered On

04/26/2022 10:02 A.M.

Delivered To

SANTA FE, NM, US

Received By

HAZEL

Left At

Front Desk

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 04/26/2022 2:44 P.M. EST



Where

Ship From
 Mewbourne Oil Company, Kimberly Ripka
 3901 South Broadway, Tyler, TX 75701
 rmcdaniel@mewbourne.com, 903-561-2900

Ship To
 WTP Limited Partnership, OXY USA, Inc.
 5 GREENWAY PLAZA, Suite 110, HOUSTON, TX
 77046

What

Package 1 - 1ZF698E80194911969

Weight
0.5 lbs

Dimensions
UPS Letter

Service Details - UPS Next Day Air

Estimated Delivery Tuesday April 26, 2022 , 10:30 AM

Additional Options

Payment

Bill Shipping Charges To: Shipper - F698E8

Shipping Total

Shipping Fees

Package 1	
UPS Next Day Air	\$34.40
Fuel Surcharge	\$7.14

Subtotals

Shipping Fees	\$41.54
Combined Charges	\$41.54
Contract Rate	\$27.00

Transportation Charges: for services listed as guaranteed, refunds apply to transportation charges only. See Terms and Conditions in the Service Guide for details. Certain commodities and high value shipments may require additional transit time for customs clearance.

Rate includes a fuel Surcharge, but excludes taxes, duties and other charges that may apply to the shipment.
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Note: This document is not an invoice.

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Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number

1ZF698E80194911969

Weight

0.50 LBS

Service

UPS Next Day Air®

Shipped / Billed On

04/25/2022

Delivered On

04/27/2022 9:36 A.M.

Delivered To

5 GREENWAY PLZ
1 110
HOUSTON, TX, 77046, US

Received By

OLIVARES

Left At

Inside Delivery

Thank you for giving us this opportunity to serve you. Details are only available for shipments delivered within the last 120 days. Please print for your records if you require this information after 120 days.

Sincerely,

UPS

Tracking results provided by UPS: 04/27/2022 2:39 P.M. EST