

Protested SWD Application

By COG 8/24/21

Lamkin, Baylen, EMNRD

From: Lamkin, Baylen, EMNRD
Sent: Tuesday, August 24, 2021 2:40 PM
To: 'Zane Anderson'
Cc: Munds-Dry, Ocean (LDZX)
Subject: Notification of Protest for Application to Inject: Mewbourne Oil Co_Boomerang 6 Fee SWD No.1_COG Protest
Attachments: SWD-2442_Mewbourne Oil Co_Boomerang 6 Fee SWD No.1_COG Protest.pdf

RE: Boomerang 6 Fee SWD No.1 (API 30-15-Pending; Admin. Appl. No pBL2121641317) Unit F S6 T25S R26E, NMPM, Eddy County

Mr. Anderson,

The OCD was notified by COG that they are protesting this application. Because of the protest, the application can no longer be reviewed administratively. You are being notified that for this application to be considered, Mewbourne Oil Co., currently has two options; the first is to go to hearing, the second is to negotiate a resolution with the protesting party. If the protest is withdrawn, then the application can be reviewed administratively. In the meantime, the application will be retained pending a hearing or other resolution. Please continue to provide OCD with information regarding the standing of this application and feel free to call me with any questions.

Contact for COG:

Ocean Munds-Dry | Managing Counsel Lower 48 Regulatory | ConocoPhillips
O: 505-780-8006 | C: 505-920-5201 | 1048 Paseo de Peralta, Santa Fe, New Mexico

Kind regards,

Baylen Lamkin

Petroleum Engineer

Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3401



Lamkin, Baylen, EMNRD

From: Lamkin, Baylen, EMNRD
Sent: Tuesday, August 24, 2021 2:31 PM
To: Lamkin, Baylen, EMNRD
Subject: FW: COG objection to MOC C-108 Boomerang 6 Fee SWD 1
Attachments: COG object MOC SWD ltr.pdf; Mewbourne Application to Inject - Boomerang 6 Fee SWD 1.pdf

From: Munds-Dry, Ocean (LDZX) <Ocean.Munds-Dry@conocophillips.com>
Sent: Tuesday, August 24, 2021 10:27 AM
To: Engineer, OCD, EMNRD <OCD.Engineer@state.nm.us>
Cc: zanderson@mewbourne.com
Subject: COG objection to MOC C-108 Boomerang 6 Fee SWD 1

Good morning,

Please find attached objection to Mewbourne Oil Company's Application for Authorization to Inject in the Boomerang 6 Fee SWD Well.

Thanks,
Ocean

Ocean Munds-Dry | Managing Counsel Lower 48 Regulatory | ConocoPhillips
O: 505-780-8006 | **C:** 505-920-5201 | 1048 Paseo de Peralta, Santa Fe, New Mexico

Confidentiality Notice:

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Ocean Munds-Dry
Managing Counsel, L48 Regulatory

1048 Paseo de Peralta
Santa Fe, New Mexico 87501
(505) 780-8000
ocean.munds-dry@conocophillips.com

August 24, 2021

Adrienne Sandoval, Director
Oil Conservation Division
New Mexico Department of Energy, Mineral and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

**Re: Application of Mewbourne Oil Company to inject in the Boomerang 6
Fee SWD Well No. 1**

Dear Ms. Sandoval:

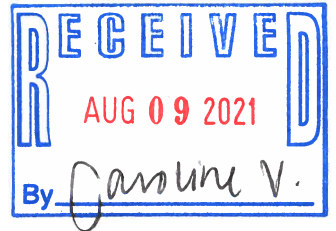
Mewbourne Oil Company notified COG Operating LLC of its Application for Authorization to Inject in the Boomerang 6 Fee SWD Well No. 1 located 2650 feet from the North and West lines of Section 6, Township 25 South, Range 28 East, Eddy County, New Mexico. A copy of the notice is attached.

As an offset operator, COG Operating LLC objects to this application. COG Operating LLC requests this application be set for hearing.

Sincerely,

Ocean Munds-Dry
Managing Counsel

Cc: Zane Anderson
Mewbourne Oil Company
4801 Business Park Road
Hobbs, NM 88240
zanderson@mewbourne.com



August 3, 2021

COG Operating LLC
600 W. Illinois Ave
Midland, TX 79710

Re: Application to Inject
Boomerang 6 Fee SWD #1
Section 6, Township 25 South, Range 28 East
2650' FNL & 2650' FWL
Eddy County, New Mexico

To Whom It May Concern,

Enclosed for your review is a copy of Mewbourne Oil Company's C-108 Application to Inject for the captioned well. As required by the New Mexico Oil Conservation Division, you are being noticed because you have been identified as the surface owner, mineral owner or a leasehold operator within a one-mile radius of the proposed well location. If you object to the application, you must file a written objection and/or request for hearing with the Division within 15 days of receipt of this notice. The Division's address is 1220 South St. Francis Drive, Santa Fe, New Mexico 87505.

Should you have any questions, please contact us at (575) 393-5905.

Sincerely yours,

MEWBOURNE OIL COMPANY



Zane Anderson
Engineer
zanderson@mewbourne.com

P.O. Box 5270 • Hobbs, NM 88240
4801 Business Park Blvd • Hobbs, NM 88240

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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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: Boomerang 6 Fee SWD #1	API: 30-015-pending
Pool: SWD; DEVONIAN	Pool Code: 96101

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
☐ 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

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

FOR OCD ONLY

☐ Notice Complete

☐ Application Content Complete

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.

Zane Anderson	July 28, 2021
Print or Type Name	Date
	575-393-5905
Signature	Phone Number
	zanderson@mewbourne.com
	e-mail Address

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: **4801 Business Park Blvd**
Hobbs, NM 88240
CONTACT PARTY: **Zane Anderson** PHONE: **575-393-5905**
- 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: **Zane Anderson** TITLE: **Engineer**
SIGNATURE: _____ DATE: _____
E-MAIL ADDRESS: **zanderson@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

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: **Boomerang 6 Fee SWD #1**

WELL LOCATION:	2,650' FNL & 2,650' FWL	F	6	25S	28E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC (See Attached)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 26"	Casing Size: 20" (94#) @ 450'
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Cement with: 715 sx (100% excess)	Top of Cement: Surface
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Intermediate Casing

Hole Size: 17 1/2"	Casing Size: 13 3/8" (54.5 & 61#) @ 2,340'
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Stage 1: 1120 sx (25% excess)	Top of Cement: Surface (Calculated)
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Production Casing

Hole Size: 12 1/4"	Casing Size: 9 5/8" (40#) @ 9,200'
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Stage 1: 1435 sx (25% excess)	Top of Cement: DV Tool @ 2,415'
--------------------------------------	--

Stage 2: 625 sx (25% excess)	Top of Cement: Surface (Calculated)
-------------------------------------	--

Production Liner

Hole Size: 8 3/4"	Casing Size: 7 5/8" (33.7#)
	Top @ 9,000'
	Bottom @ 13,970'

Cement with: 355 sx (25% excess)	Top of Cement: 9,000' (Proposed: circulated to liner top)
---	--

TD @ 14,850'
Permitted Injection Interval 13,970'-14,850'

INJECTION WELL DATA SHEET

Tubing Size: 7" x 5 1/2" Lining Material: Duoline
7", P110 UFJ GB to approximately 8,850'
5 1/2", P110 UFJ GB to 13,890'

Type of Packer: 3 1/2" x 7 5/8" Model R Packer (Inconel)

Packer Setting Depth: +/- 13,890'

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? **NA**
2. Name of the Injection Formation: **Devonian - Open Hole Completion**
3. Name of Field or Pool (if applicable): **96101 SWD; Devonian**
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 (2,415'), Bone Spring (5,975'), Wolfcamp (9,190'), & Morrow (12,300')**

Underlying producing zone – **N/A**

BOOMERANG 6 FEE SWD #1

Additional Details

- VI. There are no wells penetrating the disposal formation within the area of review.
- VII. 1. Proposed average rate of 20,000 bwpd and maximum rate of 30,000 bwpd.
2. Non-commercial SWD (closed system).
3. Proposed average injection pressure is unknown and the maximum injection pressure is approximately 2,794 psi (0.2 psi/ft x 13,970 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 Devonian formation. Devonian formation water is known to be compatible with the formation water of the Bone Spring and Wolfcamp. No Devonian water analysis are available within the immediate area. The following data is the closest produced water analysis that is available on the USGS

IDUSGS	IDORIG	IDDB	SOURCE	LATITUDE	LONGITUDE	API	COUNTY	FIELD	WELLNAME	TOWNRANGE	
35292	30000310	USGSBREIT	Pan American Petroleum Corporation	32.183	-103.7766	30015108590000	Eddy	Poker Lake South	Poker Lake Unit #36	S 24 E 31 28	
DATESAMPLE	METHOD	FORMATION	DEPTHUPPER	DEPTHLOWER	SG	SPGRAV	RESIS	RESIST	PH	TDSUSGS	TDS
1967-04-06	Separator	Devonian	16578	16660	1.086	1.086	0.067	77	6.6	120326	120326

- VIII. 1. The proposed injection interval is within the Devonian formation which is a porous dolomitic limestone from 13,970' to 14,850'. It is estimated that the base of the injection interval should be approximately 650' above the top of the Ellenburger.

Other Projected Formation Tops:

Mississippian	13,570'
Woodford	13,810'
Devonian	13,940'
EST TOTAL DEPTH	14,850'
Montoya	14,880'
Simpson	15,240'
Ellenburger	15,500'

2. The underground fresh water aquifers (unnamed) are present at shallow depths (per revue of well records, within 2 miles of the proposed SWD, on the NM Office of the State Engineers website) with the deepest water being encountered at a depth of 70', the shallowest water at a depth of 35' and the average water depth at 52'. There are no known fresh water intervals underlying the injecting formation.
- IX. The proposed stimulation is an open-hole acid treatment of 30,000 gallons of 15% HCL.

- X.** A gamma-ray / neutron log will be run from TD to surface upon the drilling and completion of proposed well.
- XI.** There were 8 wells on record with the NM State Engineers Office within 2 miles of the proposed SWD. Many of these wells could not be located or were inaccessible. A fresh water sample taken from a well located in Section 7, Twp 25S, Rge 28E, and the analysis is 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 is attached.
- XIII.** See attached Proof of Notice

Mewbourne Oil Company

Well Name: Boomerang 6 Fee SWD #1
Spud: 2021

20" 94# J-55 BTC
Set @ 450'
Cmt w/ 715 sx

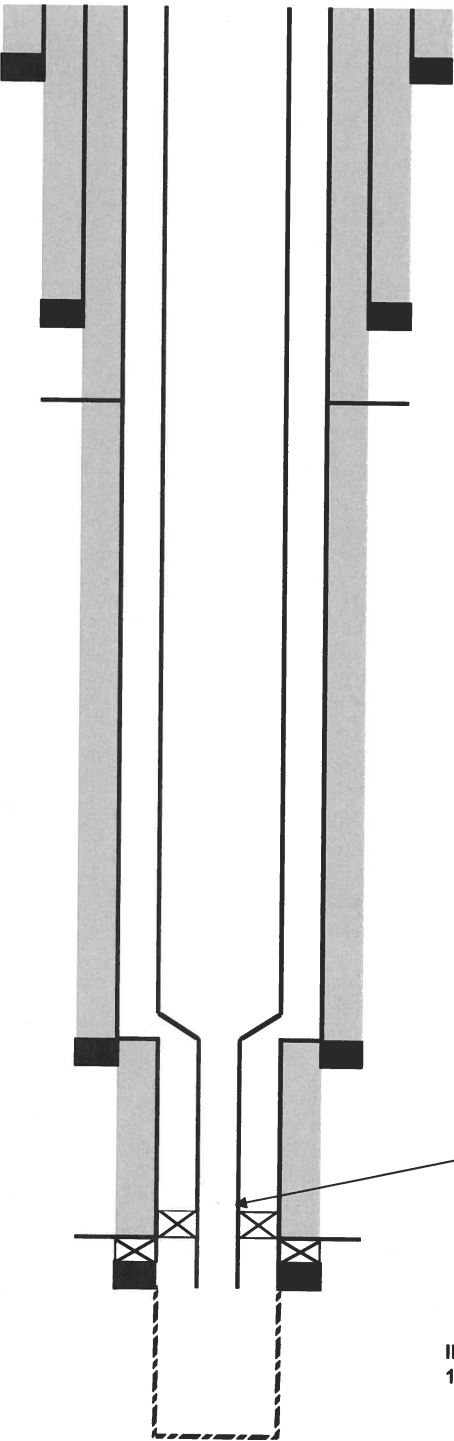
13 3/8" 54.5 & 61# J55 & HCL80 STC
Set @ 2340'
Cmt w/ 1120 sx

ECP/DV Tool @ 2415'
Cmt 2nd stg w/ 625 sx

9 5/8" 40# HCL80 LTC
Set @ 9200'
Cmt 1st stg w/ 1435 sx

7 5/8" 33.7# P-110 UFJ Liner
Set from 9000'-13,970'
Cmt w/ 355 sx

6 1/8" Open Hole
TD @ 14,850'



Injection String
7" P110 UFJ GB & 5 1/2" P110 UFJ GB
Nickel-Plated Pkr Set @ 13,890'

DV Tool @ 13,900'
External Csg Pkr Set @ 13,940'

INJECTION ZONE: DEVONIAN
13970' - 14850'

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 BOOMERANG 6 FEE SWD						6 Well Number 1	
7 OGRID NO.		8 Operator Name MEWBOURNE OIL COMPANY						9 Elevation 3060'	
10 Surface Location									
UL or lot no. F	Section 6	Township 25S	Range 28E	Lot 1dn	Feet from the 2650	North/South line NORTH	Feet From the 2650	East/West line WEST	County EDDY
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code		15 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.

Diagram illustrating a well location plat showing seven lots (LOT 1 through LOT 7) and geodetic data for a well location.

Geographic Coordinates:

- Top: N 89°55'15" W 5355.38'
- Left: N 00°06'55" W 2658.98'
- Right: N 00°34'09" E 2677.69'
- Bottom: N 89°36'53" W 2656.28' (under LOT 6), N 89°38'58" W 2635.21' (under LOT 7)
- Bottom Right: N 00°33'11" E 2666.04'

Well Location Data:

- GEODETIC DATA:** NAD 83 GRID - NM EAST
- SURFACE LOCATION:** LAT: 32.1592532° N, LONG: 104.1269550° W
- CORNER DATA:** NAD 83 GRID - NM EAST

Well Location Details:

- Point 6 is marked with a red circle and labeled "S.L." (Surface Location).
- Distances from Point 6 to lot boundaries are indicated: 2650' to the west and 2650' to the north.
- Found Brass Caps are listed for each lot:

Lot	Found Brass Cap	NAD 83 Grid N	NAD 83 Grid E
LOT 1	"1940"	421732.7	605201.6
LOT 2	"1940"	421727.4	602552.2
LOT 3	"1940"	424385.7	602546.9
LOT 4	"1940"	424378.3	607901.1
LOT 5	"1940"	421701.4	607874.5
LOT 6	"1940"	419036.1	607848.7
LOT 7	"1940"	419052.2	605214.2

Operator Certification:

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: _____ Date: _____

Printed Name: _____

E-mail Address: _____

Surveyor Certification:

18 SURVEYOR CERTIFICATION

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.

06-16-2021

Date of Survey

Signature and Seal of Professional Surveyor: _____

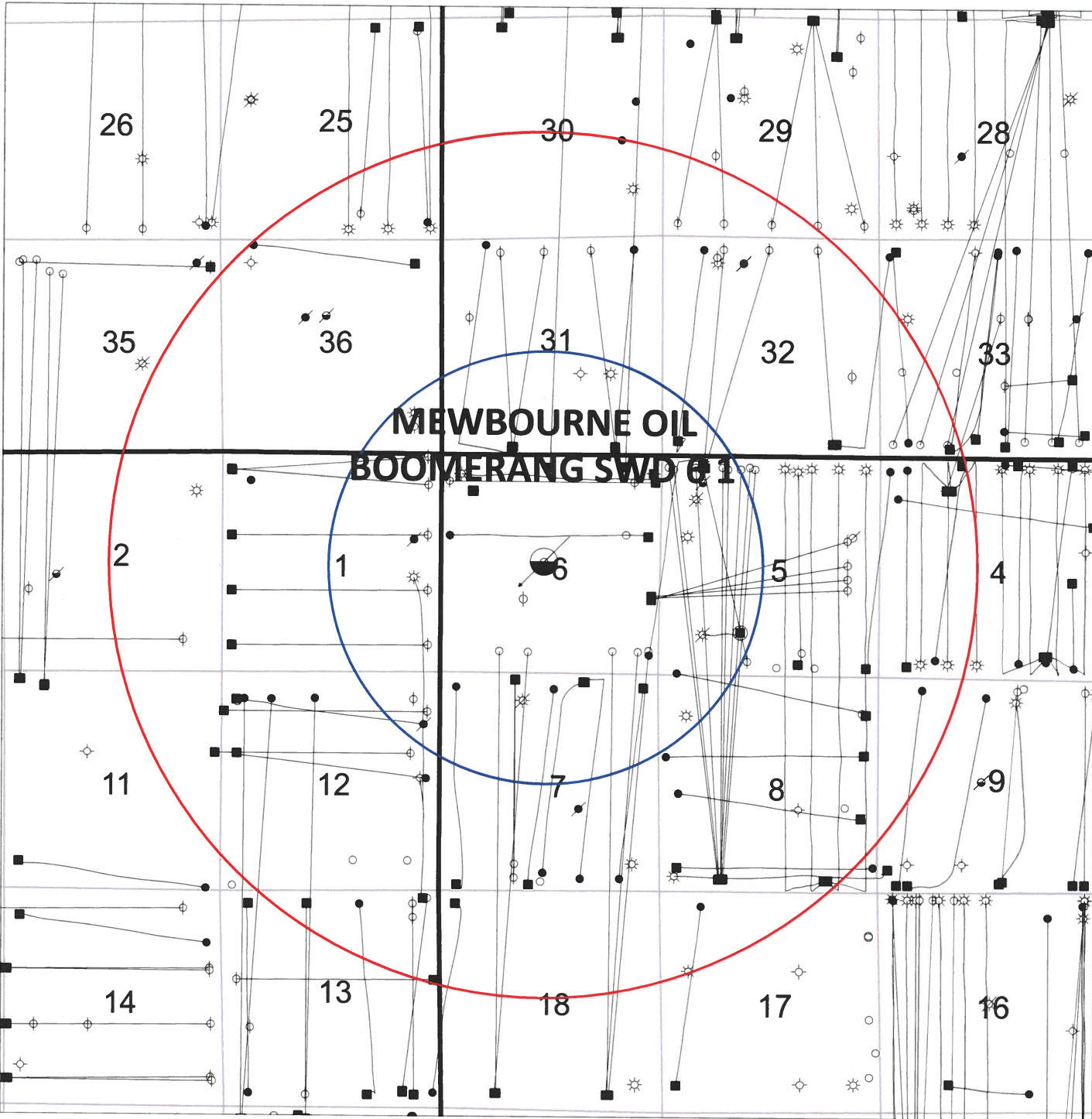
19680

Certificate Number

Professional Surveyor Seal:

ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR


Job No.: LS21060602



1 MILE AREA OF REVIEW



2 MILE AREA OF REVIEW

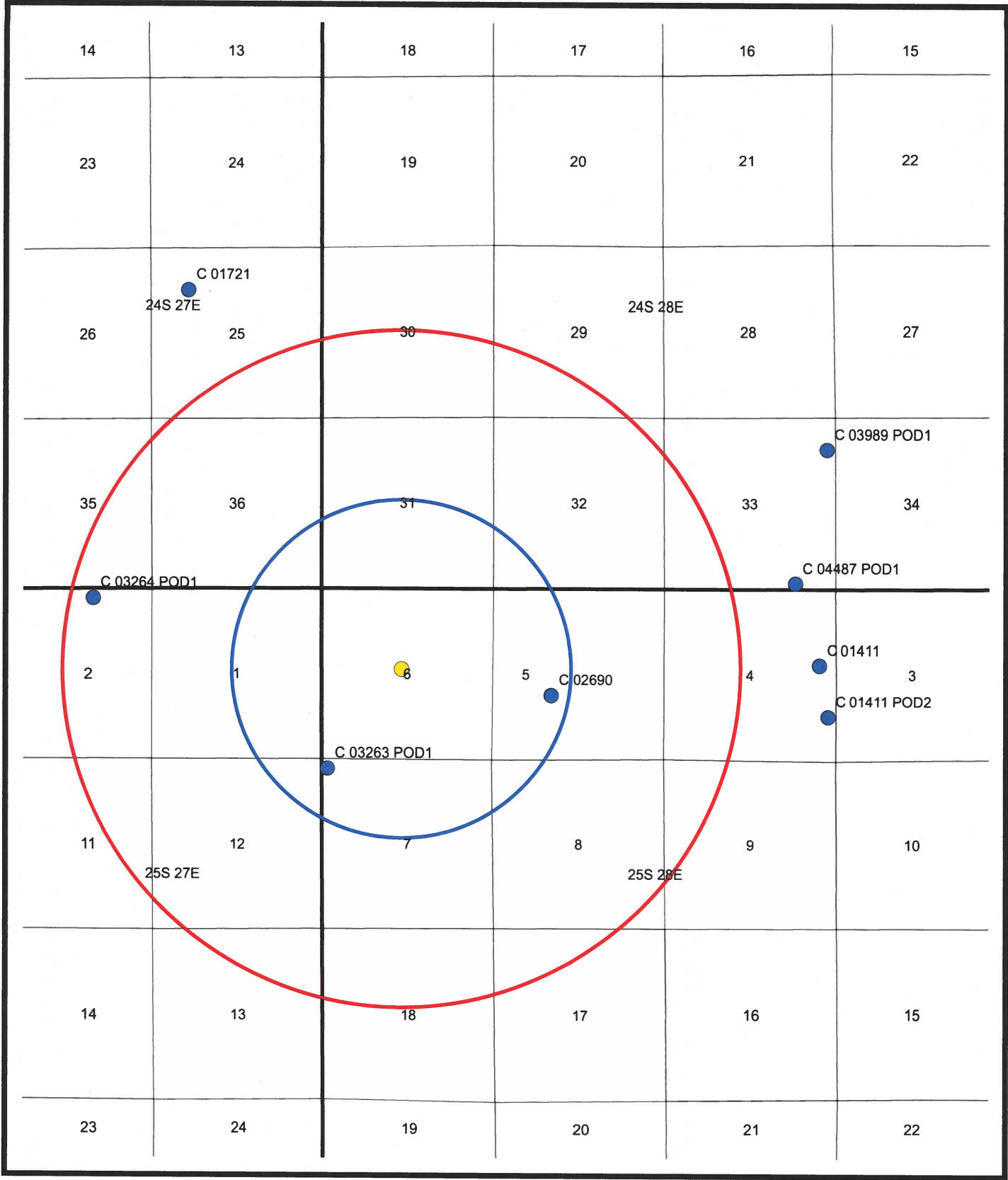
 Mewbourne Oil Company		
BOOMERANG 6 FEE SWD #1 2650 FNL & 2650 FWL 6-25S-28E EDDY CO., NEW MEXICO		
Author: sd		Date: 16 July, 2021

1 MILE AOR WELLS

ESTIMATED TOP OF DEVONIAN = 13,540'

API	Lease Name	Well Num	Operator Name	Current Operator	Location	Footage	Field Name	State	County Name	Play Name	Frual Status	Last Activity Date	Driller Td	Form at TD Name	Prod Depth	Prod Form	Permit License Date	Spud Date	Comm Date	Frual Drill Date	Latitude	Longitude
3001534810000	OXY BENEILL	1	OCCIDENTAL PERMAN LP	OCCIDENTAL PERMIAN LTD	255 28E 8 S2 NW NW	990 FNL 660 FWL CONGRESS SECTION	SALT DRAW W	NM	EDDY	PERMAN CONVENTIONAL	GAS PRODUCER	2021-04-05	12970	MORROW	13000	MORROW	2006-05-18	2006-06-14	2006-09-30	2006-07-28	32.14901482	-104.1157245
30015353420000	WINCHESTER'S STATE	1	OGX RESOURCES LLC	OGX RESOURCES LLC	255 28E 5 NE SE SW	1004 FSL 1986 FWL CONGRESS SECTION	SALT DRAW W	NM	EDDY	PERMAN CONVENTIONAL	ARB-GW	2021-05-20	12910	MORROW	13000	MORROW	2006-01-05	2007-01-27	2007-05-18	2007-03-03	32.15458644	-104.1119874
30015353420000	WINCHESTER'S STATE	1	OGX RESOURCES LLC	OGX RESOURCES LLC	255 28E 5 NE SE SW	1004 FSL 1986 FWL CONGRESS SECTION	SALT DRAW W	NM	EDDY	PERMAN CONVENTIONAL	ARB-GW	2021-05-20	12910	MORROW	13000	MORROW	2006-01-05	2007-06-26	2007-09-36	2007-09-26	32.15458644	-104.1119874
30015353420000	WINCHESTER'S STATE	1	OGX RESOURCES LLC	OGX RESOURCES LLC	255 28E 5 NE SE SW	1004 FSL 1986 FWL CONGRESS SECTION	SALT DRAW W	NM	EDDY	PERMAN CONVENTIONAL	ARB-GW	2021-05-20	12844	MORROW	13000	MORROW	2007-09-30	2007-10-10	2008-01-15	2007-11-07	32.15458644	-104.1119874
30015355570000	COLT STATE	1	OGX RESOURCES LLC	OGX RESOURCES LLC	255 28E 7 S24 NW	1380 FSL 1286 FWL CONGRESS SECTION	SALT DRAW W	NM	EDDY	PERMAN CONVENTIONAL	GAS PRODUCER	2021-05-20	12844	MORROW	13000	MORROW	2007-01-09	2007-04-09	2007-08-10	2007-05-26	32.17187468	-104.1217408
30015355570000	COLT STATE	1	OGX RESOURCES LLC	OGX RESOURCES LLC	255 28E 7 S24 NW	1380 FSL 1286 FWL CONGRESS SECTION	SALT DRAW W	NM	EDDY	PERMAN CONVENTIONAL	ARB-GW	2021-05-20	12897	MORROW	13000	MORROW	2007-04-20	2007-06-24	2007-09-30	2007-09-29	32.16097931	-104.1356411
30015355570000	KIMBER STATE	001	OGX RESOURCES LLC	OGX RESOURCES LLC	255 28E 7	660 FNL 1890 FWL CONGRESS SECTION	SALT DRAW W	NM	EDDY	PERMAN CONVENTIONAL	ARB-GW	2021-05-20	12897	MORROW	13000	MORROW	2007-04-20	2007-06-24	2007-09-30	2007-09-29	32.16097931	-104.1356411
30015355880000	GURKHA BKG STATE COM	001	YATES PETROLEUM CORP	EOG RESOURCES INC	255 27E 36 SE SE	990 FSL 660 FWL CONGRESS SECTION	SALT DRAW W	NM	EDDY	PERMAN CONVENTIONAL	GAS PRODUCER	2021-05-28	12899	MORROW	13000	MORROW	2007-10-02	2008-01-13	2008-03-19	2008-01-25	32.16918353	-104.1271865
30015408620000	COLT STATE COM	2H	LEGEND NATURAL GAS III LP	COG OPERATING LLC	255 28E 5	200 FNL 1000 FWL CONGRESS SECTION	WILLOW LAKE	NM	EDDY	BONE SPRING	OIL PRODUCER	2020-11-30	12613	BONE SPRING 2 /SD/	13200	BONE SPRING	2012-12-03	2013-10-11	2013-12-01	2013-10-25	32.16387188	-104.114474
30015408620000	COLT STATE COM	3H	LEGEND NATURAL GAS III LP	COG OPERATING LLC	255 28E 7	330 FNL 380 FWL CONGRESS SECTION	WILLOW LAKE	NM	EDDY	BONE SPRING	OIL PRODUCER	2021-01-11	12662	BONE SPRING	13300	BONE SPRING	2012-12-05	2013-01-11	2013-02-28	2013-01-27	32.15082839	-104.1193195
30015409600000	FULL CHOKE COM	3H	LEGEND NATURAL GAS III LP	COG OPERATING LLC	255 28E 32	100 FSL 140 FWL CONGRESS SECTION	WILLOW LAKE	NM	EDDY	BONE SPRING	OIL PRODUCER	2018-09-26	12666	BONE SPRING 2 /SD/	13300	BONE SPRING	2012-12-13	2013-02-25	2013-05-26	2013-03-11	32.16737406	-104.1164432
30015410930000	BICKSNOT STATE COM	2H	LEGEND NATURAL GAS III LP	COG OPERATING LLC	245 28E 31	100 FSL 140 FWL CONGRESS SECTION	WILLOW LAKE WEST	NM	EDDY	BONE SPRING	OIL PRODUCER	2020-11-30	12613	BONE SPRING	13300	BONE SPRING	2013-02-13	2013-11-01	2013-12-24	2013-11-13	32.16670511	-104.1253841
30015410930000	BICKSNOT STATE COM	2H	LEGEND NATURAL GAS III LP	COG OPERATING LLC	245 28E 31	100 FSL 140 FWL CONGRESS SECTION	WILLOW LAKE WEST	NM	EDDY	BONE SPRING	OIL PRODUCER	2020-11-30	12613	BONE SPRING	13300	BONE SPRING	2013-02-13	2013-08-20	2013-10-13	2013-09-10	32.16670511	-104.1253841
30015414010000	COLT STATE SWD	004	LEGEND NATURAL GAS III LP	COG OPERATING LLC	255 28E 1	1066 FNL 180 FWL CONGRESS SECTION	SALT DRAW W	NM	EDDY	BONE SPRING	OIL PRODUCER	2021-05-20	12700	BONE SPRING	13700	BONE SPRING	2013-06-27	2015-04-01	2015-04-06	2015-03-21	32.16349238	-104.1489311
30015414280000	STATE GQ	5H	LEGEND NATURAL GAS III LP	COG OPERATING LLC	255 28E 7	200 FNL 1775 FWL CONGRESS SECTION	HAY HOLLOW NORTH	NM	EDDY	BONE SPRING	OIL PRODUCER	2021-05-20	12700	BONE SPRING	13700	BONE SPRING	2013-06-27	2015-04-01	2015-04-12	2015-03-18	32.1512515	-104.1287206
30015414290000	DEVON 6 FEE	4H	LEGEND NATURAL GAS III LP	COG OPERATING LLC	255 28E 7	200 FNL 1805 FWL CONGRESS SECTION	HAY HOLLOW NORTH	NM	EDDY	BONE SPRING	OIL PRODUCER	2021-05-20	12640	BONE SPRING	13626	BONE SPRING	2015-01-28	2015-02-19	2015-04-12	2015-03-07	32.160951	-104.1187683
30015429310000	DEVON 6 FEE	002H	OCCIDENTAL PERMAN LTD	OCCIDENTAL PERMIAN LTD	255 28E 6	1980 FNL 300 FWL CONGRESS SECTION	WILLOW LAKE	NM	EDDY	BONE SPRING	GAS PRODUCER	2021-06-09	14715	WOLF CAMP	14893	WOLF CAMP	2016-03-03	2016-04-01	2016-07-25	2016-04-15	32.16518222	-104.128367
30015436610000	SCOUT STATE COM	1H	MEMROUINE OIL CO	MEMROUINE OIL CO	255 28E 6	440 FNL 485 FWL CONGRESS SECTION	SULPHATE DRAW	NM	EDDY	WOLF CAMP DELAWARE	WELL PERMIT	2020-07-29	14715	WOLF CAMP	24893	WOLF CAMP	2020-04-03	2020-04-03	2020-07-25	2016-04-15	32.16563005	-104.1206431
30015469530000	SCOUT STATE COM	601H	COG OPERATING LLC	COG OPERATING LLC	255 28E 6	280 FNL 890 FWL CONGRESS SECTION	PURPLE SAGE	NM	EDDY	WOLF CAMP DELAWARE	WELL PERMIT	2020-07-29	14715	WOLF CAMP	24893	WOLF CAMP	2020-04-03	2020-04-03	2020-07-25	2016-04-15	32.16563005	-104.1206431
30015469530000	SCOUT STATE COM	601H	COG OPERATING LLC	COG OPERATING LLC	255 28E 6	280 FNL 890 FWL CONGRESS SECTION	PURPLE SAGE	NM	EDDY	WOLF CAMP DELAWARE	WELL PERMIT	2020-07-29	14715	WOLF CAMP	24893	WOLF CAMP	2020-04-03	2020-04-03	2020-07-25	2016-04-15	32.16563005	-104.1206431
30015469570000	SCOUT STATE COM	604H	COG OPERATING LLC	COG OPERATING LLC	255 28E 6	310 FNL 905 FWL CONGRESS SECTION	PURPLE SAGE	NM	EDDY	WOLF CAMP DELAWARE	WELL PERMIT	2021-04-13	14715	WOLF CAMP	2412	WOLF CAMP	2020-04-03	2021-04-12			32.16554928	-104.1260995
30015469590000	SCOUT STATE COM	605H	COG OPERATING LLC	COG OPERATING LLC	255 28E 6	875 FNL 965 FWL CONGRESS SECTION	PURPLE SAGE	NM	EDDY	WOLF CAMP DELAWARE	WELL START	2021-04-13	14715	WOLF CAMP	2412	WOLF CAMP	2020-04-03	2021-04-12			32.16554928	-104.1260995
30015469590000	SCOUT STATE COM	606H	COG OPERATING LLC	COG OPERATING LLC	255 28E 6	875 FNL 965 FWL CONGRESS SECTION	PURPLE SAGE	NM	EDDY	WOLF CAMP DELAWARE	WELL PERMIT	2020-07-29	14715	WOLF CAMP	2412	WOLF CAMP	2020-04-03	2021-04-12			32.16554928	-104.1260995
30015469600000	SCOUT STATE COM	606H	COG OPERATING LLC	COG OPERATING LLC	255 28E 6	875 FNL 965 FWL CONGRESS SECTION	PURPLE SAGE	NM	EDDY	WOLF CAMP DELAWARE	WELL PERMIT	2020-07-29	14715	WOLF CAMP	2412	WOLF CAMP	2020-04-03	2021-04-12			32.16554928	-104.1260995
30015469600000	SHERPA 12 STATE COM	711H	EOG RESOURCES INC	EOG RESOURCES INC	255 27E 12	631 FNL 1284 FWL CONGRESS SECTION	PURPLE SAGE	NM	EDDY	MISC PERMAN BASIN	WELL PERMIT	2021-07-06	19864	WOLF CAMP	19864	WOLF CAMP	2021-07-02				32.16462862	-104.132488
30015469600000	SHERPA 12 STATE COM	729H	EOG RESOURCES INC	EOG RESOURCES INC	255 27E 12	631 FNL 1284 FWL CONGRESS SECTION	PURPLE SAGE	NM	EDDY	MISC PERMAN BASIN	WELL PERMIT	2021-07-06	19864	WOLF CAMP	19864	WOLF CAMP	2021-07-02				32.16462862	-104.132488
3001546990000																					32.150086	-104.139202

THERE ARE NO WELLS WITHIN THE 1 MILE RADIUS AREA OF REVIEW (AOR) THAT PENETRATE THE DEVONIAN FORMATION



● WATER WELLS

● BOOMERANG 6 SWD

INFORMATION COURTESY OF
THE NEW MEXICO STATE ENGINEER
NM WATER RIGHTS REPORTING SYSTEM

<div><div>MOC</div><div>Mewbourne Oil Company</div></div>		
BOOMERANG 6 FEE SWD #1 2650 FNL & 2650 FWL 6-25S-28E EDDY CO., NEW MEXICO		
Author: sd		Date: 16 July, 2021



Powered by: Water Lens™

Sample Information			
Date of Sample Analysis:	2021/07/06	Technician Name:	vfuentes
Date Sample was Taken:	07/01/2021	Sample Name:	Boomerang 6 Fed SWD#1
Analysis Performed by:	EPD	API Well Number:	
Client:	Mewbourne Oil Company	Well Name:	Fresh Water
Reader Number:		Test Number:	C 03263-POD1
Water Lens Batch Number:	B41		

Metals				Anions			
	Dilution Factor	mg/L	meq/L		Dilution Factor	mg/L	meq/L
Barium	1	Less than 2	Less than 0.029	Chloride	1	25	1
Calcium	Calc	381	19.02	Sulfate	10	1,000	21
Iron II (Fe ²⁺)	1	Less than 0.03	Less than 0.0016	Nitrate	n/a	Test Not Run	-
Iron III (Fe ³⁺)	Calc	Less than 0.03	Less than 0.0016	Phosphate	10	5.42	0.17
Total Dissolved Iron	1	Less than 0.03	Less than 0.0016	Unfiltered Phosphate	n/a	Test not run	Test not run
Magnesium	100	74.00	6.08	Filtered Phosphate	n/a	Test not run	Test not run
Sodium	Calc	Less than 156	Less than 0.01	Delta Phosphate		Test Not Run	-
Strontium	n/a	Test Not Run	-	Carbonate (as CO ₃ ²⁻)	Calc	-	-
Manganese	n/a	Test Not Run	-	Bicarbonate (as HCO ₃ ⁻)	Calc	68	1.1
Boron		Test Not Run	-	Acetates/Formates (as Acetate)	Calc	16	0.3
Potassium	10	Less than 10	0.1	Hydroxide (as OH ⁻)	Calc	0	0
				Sulfide (Total)	n/a	Test not run	Test not run

Other							
	Dilution Factor				Dilution Factor		
Hydrogen Sulfide (H ₂ S)	Calc	1.0	mg/L	ATP (picograms/mL)	Calc	Test not run	
Turbidity	1	Less than 7	NTU's	Dissolved CO ₂ (ppm)	Calc	10	
Total Hardness	100.0	1,257.00	mg/L CaCO ₃	pH	n/a	7.56	
Oxidation/Reduction Potential (ORP)		-26	millivolts	Total Alkalinity	1	70	mg/L CaCO ₃
Temperature		77	Fahrenheit				
Stiff & Davis Scaling Index (S&DSI)		-0.09		Total Dissolved Solids (TDS)	Calc	1,560	mg/L
Langelier Scaling Index (LSI)		0.28		Electrical Conductivity	Calc	2,500	uS/cm
Larson-Skold Index		23.55		Electrical Resistivity	Calc	400.0	Ohm*cm
Skillman Index		1.251		Manganese/Iron Ratio		Test Not Run	
Barite Saturation Index		2.19		Specific Gravity		1.0011	
Gypsum Saturation Index		0.35					

Comments	
Fresh Water	

Sample Information			
Date of Sample Analysis:	2021/07/06	Technician Name:	vfuentes
Date Sample was Taken:	07/01/2021	Sample Name:	Boomerang 6 Fed SWD#1
Analysis Performed by:	EPD	API Well Number:	
Client:	Mewbourne Oil Company	Well Name:	Produced Water
Reader Number:		Test Number:	Devon 6 W2AD Fee #1H
Water Lens Batch Number:	B41		

Metals			
	Dilution Factor	mg/L	meq/L
Barium	10	30	0
Calcium	Calc	5420	270.4
Iron II (Fe ²⁺)	100	131.51	4.70
Iron III (Fe ³⁺)	Calc	3.99	0.21
Total Dissolved Iron	100	135.50	7.29
Magnesium	1,000	Less than 400	Less than 33
Sodium	Calc	47000	2040
Strontium	n/a	Test Not Run	-
Manganese	n/a	Test Not Run	-
Boron		Test Not Run	-
Potassium	100	669	17.1

Anions			
	Dilution Factor	mg/L	meq/L
Chloride	100	85,110	2,401
Sulfate	1	135	3
Nitrate	n/a	Test Not Run	-
Phosphate	100	45.19	1.43
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	131	2.1
Acetates/Formates (as Acetate)	Calc	181	3.1
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	282	NTU's
Total Hardness	1,000.0	16,550.00	mg/L CaCO ₃
Oxidation/Reduction Potential (ORP)		-49	millivolts
Temperature		77	Fahrenheit
Stiff & Davis Scaling Index (S&DSI)		-1.04	
Langelier Scaling Index (LSI)		0.13	
Larson-Skold Index		1364.99	
Skillman Index		1.251	
Barite Saturation Index		1.46	
Gypsum Saturation Index		-0.60	

	Dilution Factor		
ATP (picograms/mL)	Calc	Test not run	
Dissolved CO ₂ (ppm)	Calc	435	
pH	n/a	6.17	
Total Alkalinity	1	261	mg/L CaCO ₃
Total Dissolved Solids (TDS)	Calc	139,500	mg/L
Electrical Conductivity	Calc	183,500	uS/cm
Electrical Resistivity	Calc	5.4	Ohm*cm
Manganese/Iron Ratio		Test Not Run	
Specific Gravity		1.0970	

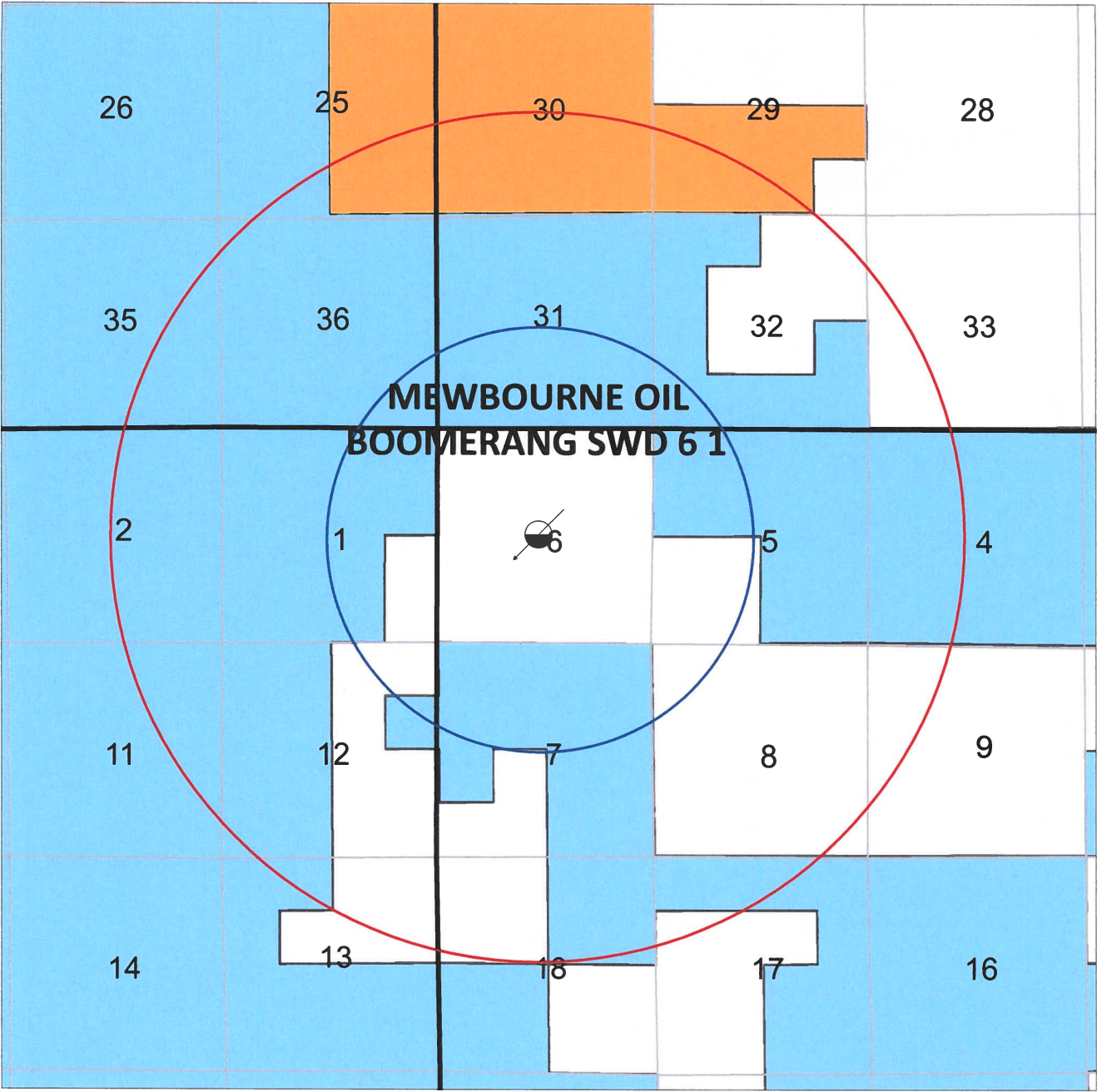
Comments	
Wolfcamp	

MEWBOURNE OIL COMPANY
BOOMERANG 6 FEE SWD #1 APPLICATION

BONE SPRINGS WATER ANALYSIS

Company	Mewbourne Oil NM
Lease	Oxbow 23/24
Well	B2MP Fed Com 1Y
Sample Location	Wellhead
Sample Date	12/11/2020
Date_Taken_To_Lab	12/16/2020
pH	6.57
Temperature	78.1
HCO3	34.2
CO3	0
O2	0
CO2	300
H2S	1.71
Acidized Bottle 1	
Acidized Bottle 2	Yes
Unique Code	WA-LKEPZM
Lab Measured Sample Temp	78.1
Lab H2S	1.71
Lab CO2	300
Lab Boron	35.32
Lab dissolved O2	0
Lab Calcium	7117
Lab_Magnesium	1088
Lab Sodium	63094
Lab Barium	0.818
Lab Manganese	0.515
Lab Strontium	312.4
Lab_Potassium	916.2
Lab Hydroxyl	0
Lab_Carbonate	0
Lab_Bicarbonate	34.2
Lab Sulfate	320
Lab Chloride	114200
Lab Total Iron	20.85
Lab Total Dissolved Solids	202124
Lab Total Hardness as CaCO3	0
Lab Conductivity MICROMHOS PER C	213647
Resistivity	4.68
Lab pH	6.57
Lab Specific Gravity 6060F	1.13
Lab CaSO4 Solubilty at 80F MEq per L	0
Lab Scaling Index 70 degrees	0

Lab Scaling Index 80 degrees	0
Lab Scaling Index 90 degrees	0
Lab Scaling Index 100 degrees	0
Lab Scaling Index 110 degrees	0
Lab Scaling Index 120 degrees	0
Lab Scaling Index 130 degrees	0
Lab Scaling Index 140 degrees	0
Lab Scaling Index 150 degrees	0
French Creek Lab Scaling Index 81.82	0.265
French Creek Lab Scaling Index 93.64	0.226
French Creek Lab Scaling Index 105.45	0.19
French Creek Lab Scaling Index 117.27	0.158
French Creek Lab Scaling Index 129.09	0.129
French Creek Lab Scaling Index 152.73	0.0828
French Creek Lab Scaling Index 164.59	0.0636
French Creek Lab Scaling Index 176.36	0.0494
French Creek Lab Scaling Index 188.18	0.038
French Creek Lab Scaling Index 200.00	0.029
Comments	



FEDERAL LANDS



STATE LANDS




PUBLIC LANDS

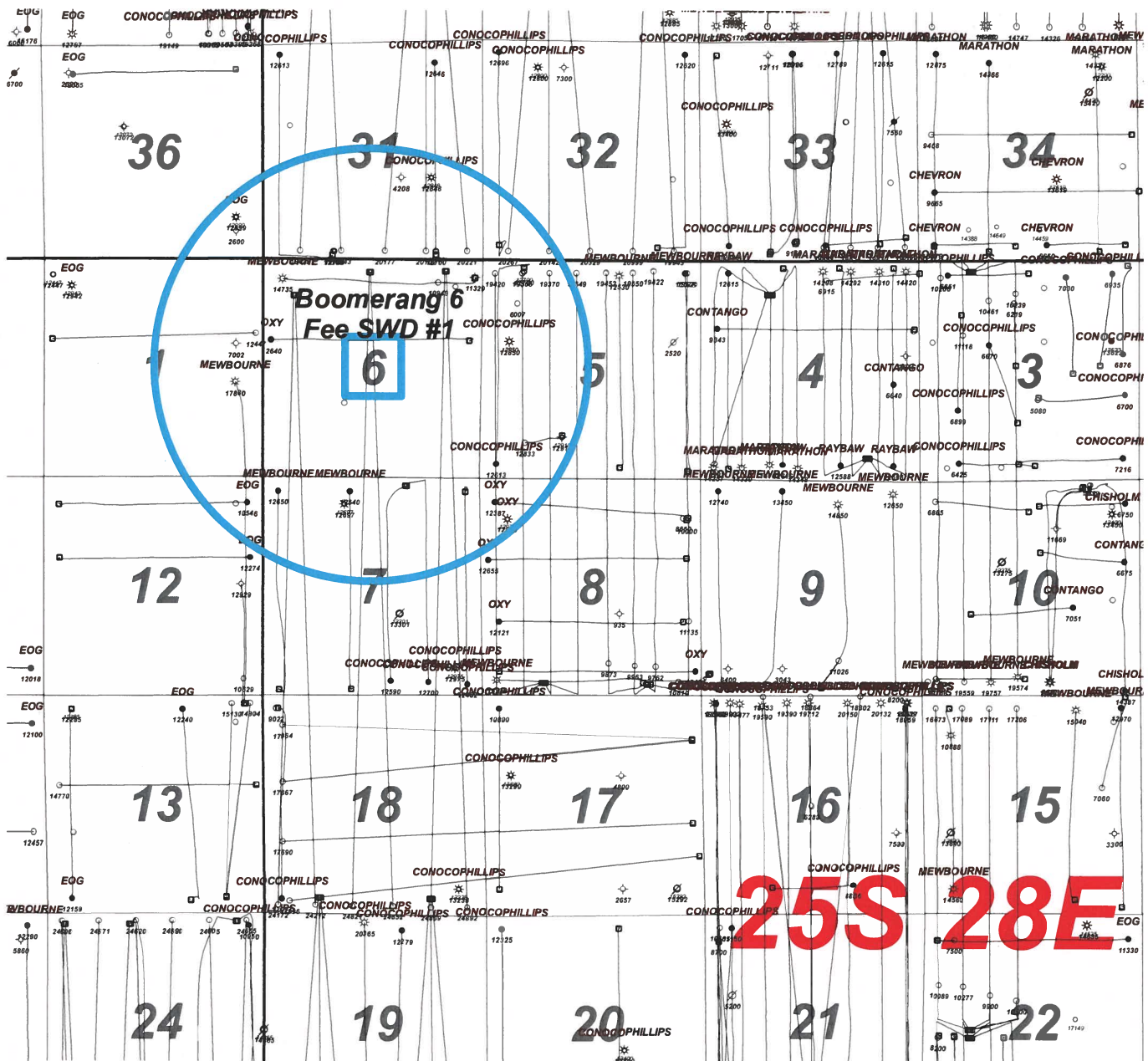



1 MILE AREA OF REVIEW



2 MILE AREA OF REVIEW

 Mewbourne Oil Company		
BOOMERANG 6 FEE SWD #1 2650 FNL & 2650 FWL EDDY CO., NEW MEXICO		
Author: sd		Date: 16 July, 2021



 Mewbourne Oil Company		
<i>Boomerang 6 Fee SWD #1 Operator Map</i>		
7/1/2021	Northern DLWR Basin	Texas/New Mexico
		N.Cless

Listing of Notified Persons

**Boomerang 6 Fee SWD #1 Application
2650' FNL, 2650' FWL
Section 6, 25S, 28E, Eddy County, NM**

Surface Owner

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87504-1148

Devon Energy Production Company, LP
333 West Sheridan Ave
Oklahoma City, OK 73102-5015

Offsetting Operators Within 1 Mile AOR

Occidental Permian Ltd.;
OXY USA WTP Limited Partnership
5 Greenway Plaza, Suite 110
Houston, Texas 77046-0521

COG Operating, LLC
600 W. Illinois Avenue
Midland, Texas 79701

OWL SWD Operating, LLC
200 N. Loraine St., Suite 206
Midland, TX 79701

Purvis Operating Co.
3101 N Pecos St
Midland, TX, 79705-5341

Trinity River Energy, LLC
777 Main St #3600
Fort Worth, TX 76102

EOG Resources, Inc.
5509 Champions Drive
Midland, TX 79706

EOG Y Resources, Inc.

104 S 4TH ST
ARTESIA, NM 88210



Affidavit of Publication

Ad # 0004826281

This is not an invoice

MEWBOURNE OIL COMPANY
3901 S BROADWAY AVE
TYLER, TX 75701

I, a legal clerk of the Carlsbad Current Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

07/17/2021

Amoy Kohott
Legal Clerk

Subscribed and sworn before me this July 17, 2021:

Kathleen Allen
State of WI, County of Brown
NOTARY PUBLIC

1-7-25

My commission expires

KATHLEEN ALLEN
Notary Public
State of Wisconsin

Ad # 0004826281
PO #:
of Affidavits 1

This is not an invoice

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 drill and complete the Boomerang 6 Fee SWD #1 as a salt water disposal well. The Boomerang 6 Fee SWD #1 is located 2,650' FNL and 2,650' FWL, Unit Letter F, Section 6, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico. The well will dispose of water produced from nearby operated oil and gas wells into the Devonian formation into an open-hole interval from a depth of 13,970 feet to 14,850 feet. Expected maximum injection rates are 30,000 BWPD at a maximum injection pressure of 2,794 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 Zane Anderson, Mewbourne Oil Company, 4801 Business Park Blvd, Hobbs, New Mexico 88240, (575)-393-5905. The well is located approximately 19 miles Southeast of Carlsbad, New Mexico. #4826281, Current Argus, July 17, 2021



July 28, 2021

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

Re: Boomerang 6 Fee SWD #1
Sec 6, Twp 25S, Rge 28E
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.

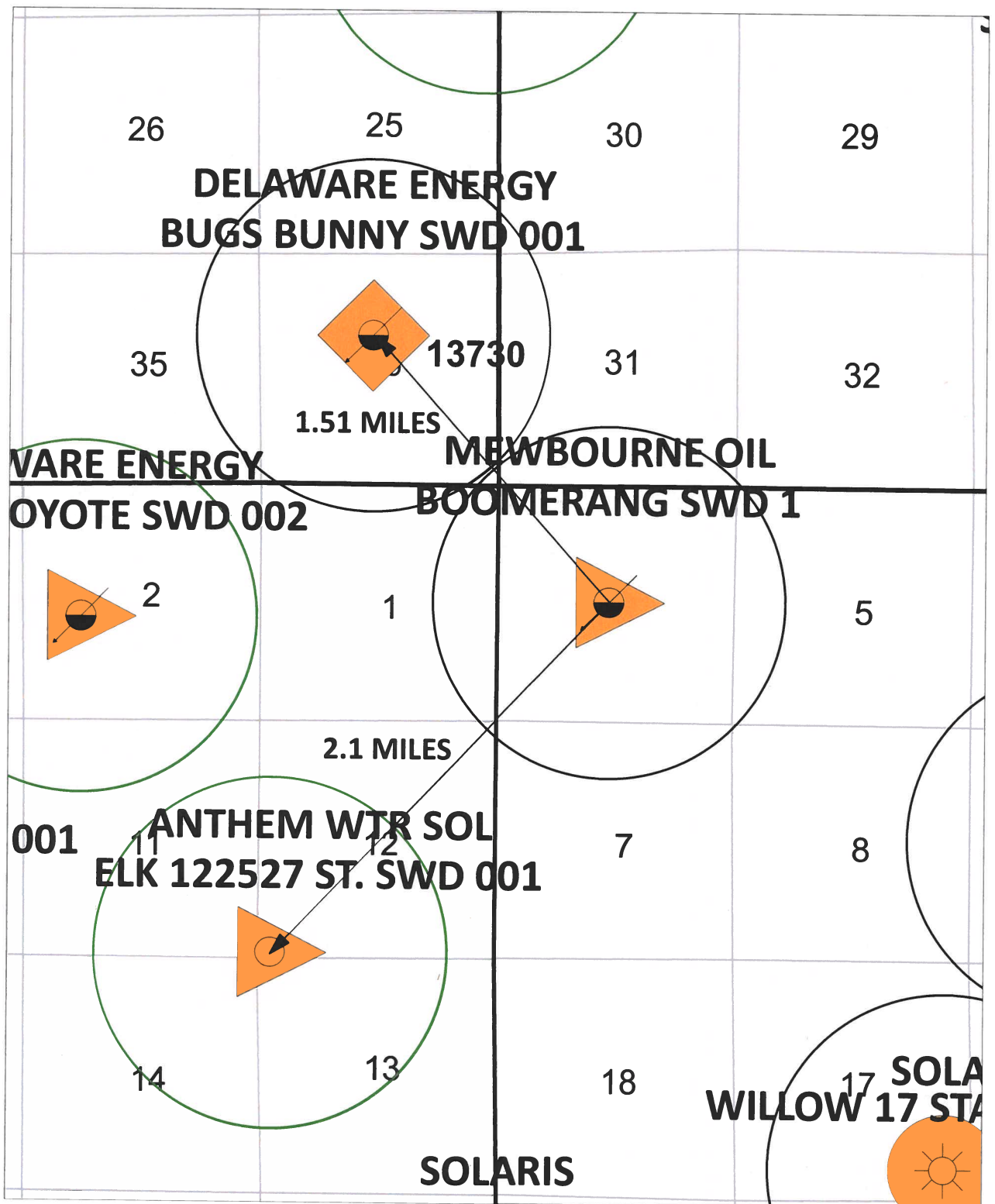
Should you have any questions, please email me at zanderson@mewbourne.com or call me at (575) 393-5905.

Sincerely,

MEWBOURNE OIL COMPANY

Zane Anderson
Engineer
zanderson@mewbourne.com

P.O. Box 5270 • Hobbs, NM 88240
4801 Business Park Blvd • Hobbs, NM 88240



ACTIVE SWD WELL

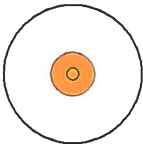


SWD WELL APPLICATION PENDING



PERMITTED LOCATIONS

THREE QUARTER
MILE RADIUS



Mewbourne Oil Company		
BOOMERANG 6 FEE SWD 2650 FNL & 2650 FWL EDDY CO., NEW MEXICO		
Author: sd		Date: 16 July, 2021

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PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE



COG Operating, LLC
600 W. Illinois Ave.
Midland, TX 79701

COG OPERATING LLC
RECEIVED