MEWBOURNE
OIL COMPANY

August 5, 2021

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
Chicharron 12 Fed SWD #1
780' FEL & 500' FNL, Unit A
Section 12, Township 21 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 Chicharron 12 Fed SWD #1 that will be located in Sec 12 Twp 21S, Rge 27E, N.M.P.M., Eddy County, New Mexico. This well will be completed open hole in the Devonian formation and will be operated as a private salt water disposal well.

Similar application exhibits were sent to offset operators and offsetting lessees, and confirmations of receipt will be e-mailed to you later this week. The public notice of this application was published in the Carlsbad Current-Argus on July 30th and an Affidavit of Publication is enclosed.

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

Sincerely yours,

MEWBOURNE OIL COMPANY

Zane Anderson
Engineer
zanderson@mewbourne.com

RECEIVED:	REVIEWER:	TYPE:	APP NO:

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: Mewboure Oil Company **OGRID Number:** 14744
Well Name: Chicharron 12 Fed 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

FOR OCD ONLY
☐ Notice Complete
☐ 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.

August 6, 2021
Date

Zane Anderson
Print or Type Name

575-393-5905
Phone Number

Zane Anderson
Digitally signed by Zane Anderson
Date: 2021.08.06 08:15:03 -06'00'
Signature

zanderson@mewbourne.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance ___X___Disposal _____Storage
Application qualifies for administrative approval? ___X___Yes _____No

II. OPERATOR: **Mewbourne Oil Company**

ADDRESS: **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: 8/5/21

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: **Chicharron 12 Fed SWD #1**

WELL LOCATION:	**500' FNL & 780' FEL**	**A**	**12**	**21S**	**27E**
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC *(See Attached)*

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: **32"**

Casing Size: **26" (202.3#) @ 320'**

Cement with: **650 sx (100% excess)**

Top of Cement: **Surface**

1st Intermediate Casing

Hole Size: **24"**

Casing Size: **20" (94 & 133#) @ 975'**

Stage 1: **730 sx (25% excess)**

Top of Cement: **Surface (Calculated)**

2nd Intermediate Casing

Hole Size: **17 1/2"**

Casing Size: **13 3/8" (61 & 68#) @ 2,825'**

Stage 1: **1800 sx (25% excess)**

Top of Cement: **Surface (Calculated)**

Production Casing

Hole Size: **12 1/4"**

Casing Size: **9 5/8" (40#) @ 9,075'**

Stage 1: **1265 sx**

Top of Cement: **DV Tool @ 3,800'**

Stage 2: **1115 sx**

Top of Cement: **1,010' (Calculated)**

Production Liner

Hole Size: **8 3/4"**

Casing Size: **7 5/8" (33.7#)**
Top @ 8,875'
Bottom @ 12,750'

Cement with: **320 sx (25% excess)**

Top of Cement: **8,875'**
(Proposed: circulated to liner top)

TD @ 13,425'
Permitted Injection Interval 12,750'-13,425'

Side 2

INJECTION WELL DATA SHEET

Tubing Size: **7"** x **5 ½"** Lining Material: **Duoline**
7", P110 UFJ GB to approximately 8,700'
5 1/2", P110 UFJ GB to 12,670'

Type of Packer: **3 ½" x 7 5/8" Model R Packer (Inconel)**

Packer Setting Depth: **+/- 12,670'**

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 (2,900'), Bone Spring (5,450'), Wolfcamp (9,050'), & Morrow (11,180')**

   Underlying producing zone – **N/A**

Chicharron 12 Fed 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 25,000 bwpd.

2. Non-commercial SWD (closed system).

3. Proposed average injection pressure is unknown and the maximum injection pressure is approximately 2,550 psi (0.2 psi/ft x 12,750 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 12,750' to 13,425'. It is estimated that the base of the injection interval should be approximately 400' above the top of the Ellenburger.

Other Projected Formation Tops:

Mississippian	12,190'
Woodford	12,670'
Devonian	12,750'
EST TOTAL DEPTH	**13,425'**
Montoya	13,425'
Simpson	13,700'
Ellenburger	13,825'

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 186', the shallowest water at a depth of 8' and the average water depth at 63'. 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.

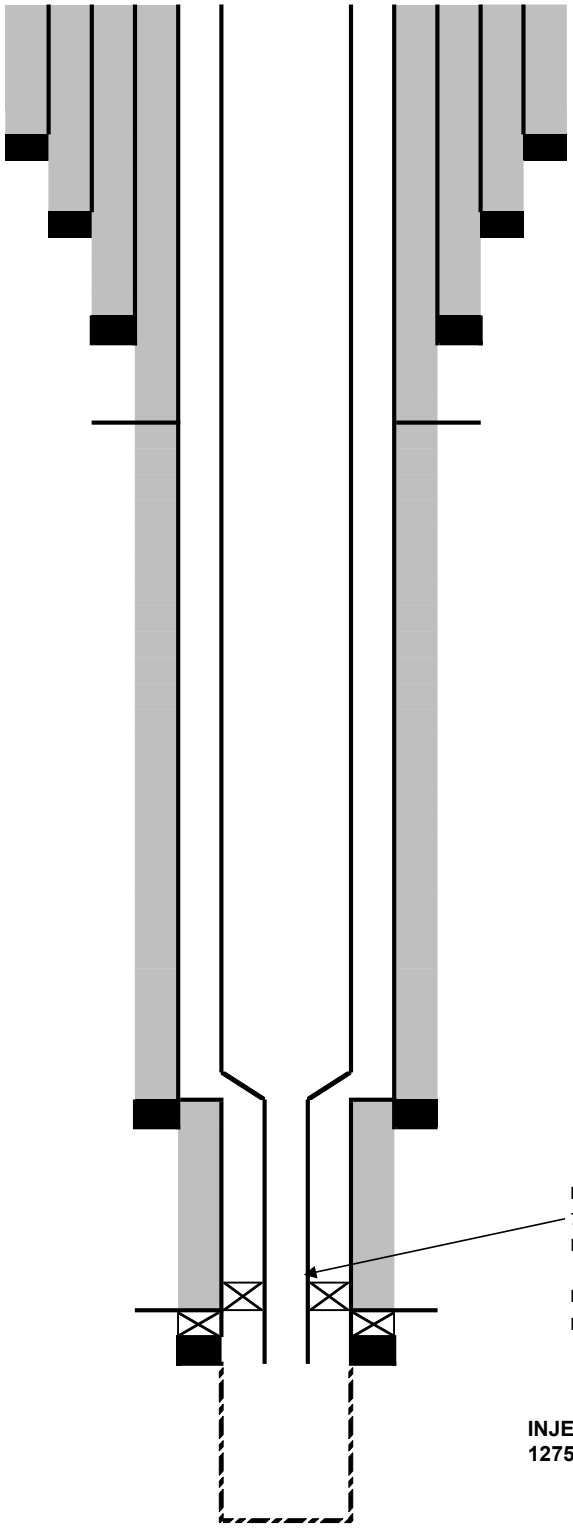
XI. There were 32 wells on record with the NM State Engineers Office within 2 miles of the proposed SWD. Many of these wells could not be located or were inaccessible. A fresh water sample taken from a well located in Section 1, Twp 21S, Rge 27E, and the analysis is attached.

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: Chicharron 12 Fed SWD #1
Spud: 2021



26" 202.3# J-55 BTC
Set @ 320'
Cmt w/ 650 sx

20" 94 &133# J-55 BTC
Set @ 975'
Cmt w/ 730 sx

13 3/8" 61 & 68# J55 & HCL80 STC
Set @ 2825'
Cmt w/ 1800 sx

ECP/DV Tool @ 3800'
Cmt 2nd stg w/ 1115 sx

9 5/8" 40# HCL80 LTC
Set @ 9075'
Cmt 1st stg w/ 1265 sx

Injection String
7" P110 UFJ GB & 5 1/2" P110 UFJ GB
Nickel-Plated Pkr Set @ 12,670'

DV Tool @ 12,690'
External Csg Pkr Set @ 12,730'

7 5/8" 33.7# P-110 UFJ Liner
Set from 8875'-12,750'
Cmt w/ 320 sx

INJECTION ZONE: DEVONIAN
12750' - 13425'

6 1/8" Open Hole
TD @ 13,425'

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name

4 Property Code	5 Property Name	6 Well Number
	CHICHARRON 12 FED SWD	1

7 OGRID NO.	8 Operator Name	9 Elevation
	MEWBOURNE OIL COMPANY	3194'

10 Surface Location

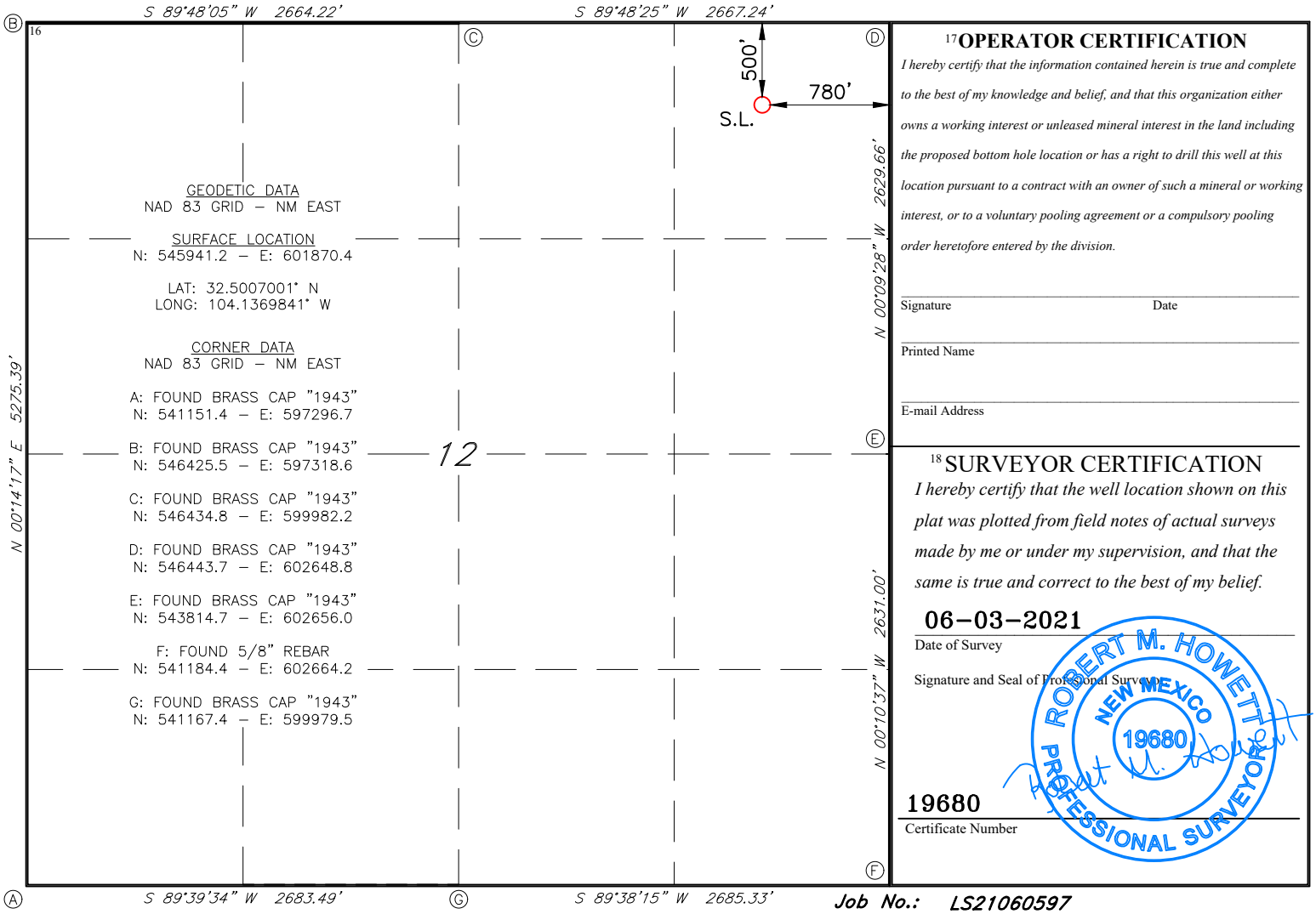
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
A	12	21S	27E		500	NORTH	780	EAST	EDDY

11 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

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.



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

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.

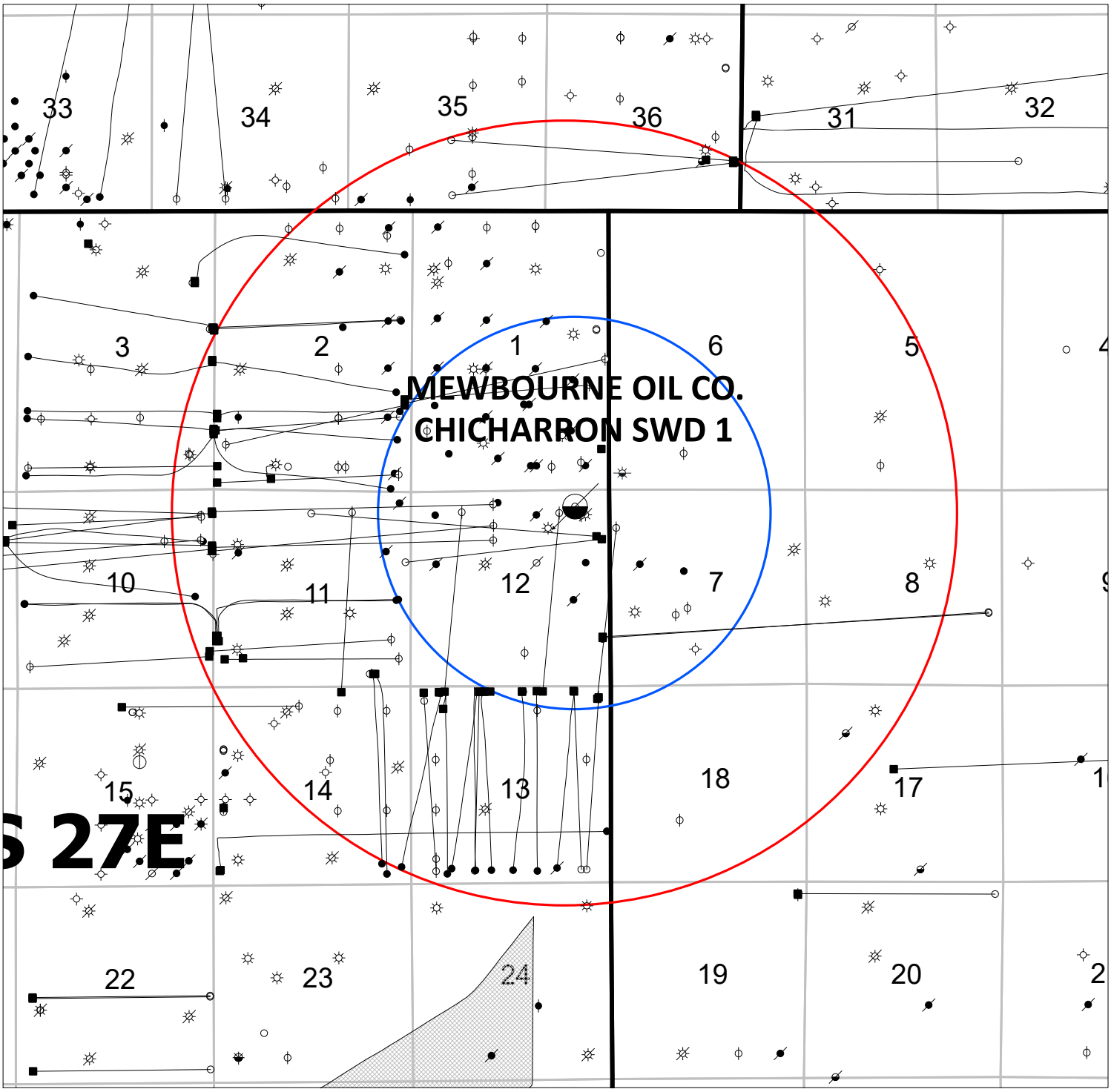
06-03-2021
Date of Survey

Signature and Seal of Professional Surveyor

ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR

19680
Certificate Number

Job No.: LS21060597



1 MILE AREA OF REVIEW

2 MILE AREA OF REVIEW

Mewbourne Oil Company

CHICHARRON 12 SWD #1
500 FNL & 780 FEL 12-21S-27E
EDDY CO., NEW MEXICO

Author: sd		Date: 9 July, 2021

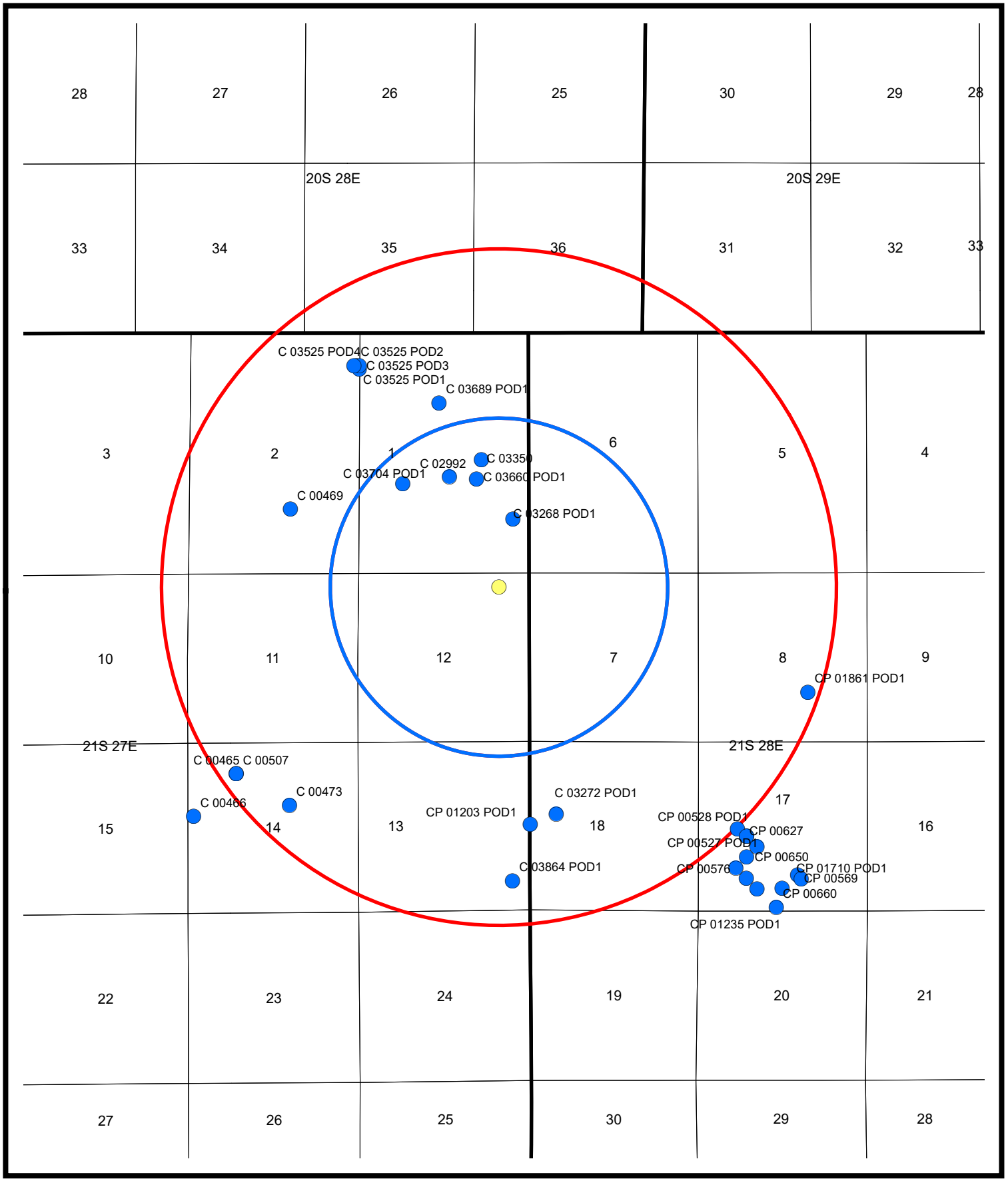
Mewboure Oil Company
Chicharron 12 Fed SWD #1 C-108 Application

1 MILE AOR WELLS

ESTIMATED TOP OF DEVONIAN = 12,750'

API	Lease Name	Well Num	Operator Name	Current Operator	Location	Footage	Field Name	State	County	Play Name	Final Status	Last Activity Date	Driller Td	Form at TD Name	Formation Producing Name	Proj Depth	Proj Form	Permit License Date	Spud Date	Comp Date	Final Drill Date	Latitude	Longitude
30015247070000	BIG EDDY	98	AMMEX PETROLEUM CORP	DAKOTA RESOURCES INC	21S 28E 7	2180 FNL 1980 FWL CONGRESS SECTION	FENTON NORTHWEST	NM	EDDY	DELAWARE	OIL PRODUCER	2021-05-28	9050	WOLFCAMP	DELAWARE	9050	DELAWARE	1984-01-08	1984-01-18	1984-04-06	1984-02-11	32.49590847	-104.1274968
30015250060000	TRIGG FEDERAL	001	EXXON CORP	DAKOTA RESOURCES INC	21S 28E 7 NW SW	1980 FSL 660 FWL CONGRESS SECTION	FENTON NORTHWEST	NM	EDDY	DELAWARE	OIL PRODUCER	2019-06-10	3366	DELAWARE	DELAWARE	3300	DELAWARE	1984-08-31	1984-09-15	1984-10-20	1984-09-26	32.49289596	-104.1317761
30015250060001	TRIGG FEDERAL	001	DAKOTA RESOURCES INC	DAKOTA RESOURCES INC	21S 28E 7 NW SW	1980 FSL 660 FWL CONGRESS SECTION	FENTON NORTHWEST	NM	EDDY	N/A - SALT WATER DISPOSAL	SWDCOM-WO	2017-11-21	3366	DELAWARE			DELAWARE	2002-01-30	2002-02-01	2002-02-20		32.49289596	-104.1317761
30015250510000	WILDERSPIN FEDERAL	2	GAS LIFT SALES & SERVICE INC	SOUTHWEST ROYALTIES INC	21S 27E 11	330 FNL 330 FEL CONGRESS SECTION	FENTON NORTHWEST	NM	EDDY	DELAWARE	OIL PRODUCER	2021-07-30	5579	BONE SPRING	DELAWARE	5600	DELAWARE	1984-10-05	1984-10-15	1984-11-16		32.50098375	-104.1522882
30015250630000	BURTON FLAT `E` FEDERAL	2	EXXON CORP	RANGER 40 PETROLEUM LLC	21S 27E 1	990 FSL 990 FWL CONGRESS SECTION	FENTON NORTHWEST	NM	EDDY	DELAWARE	OIL PRODUCER	2021-06-14	5668	BONE SPRING	DELAWARE	5800	DELAWARE	1985-02-10	1985-02-20	1985-04-12	1985-03-12	32.50461927	-104.1479762
30015250640000	BURTON FLAT `E` FEDERAL	1	EXXON CORP	RANGER 40 PETROLEUM LLC	21S 27E 1	2290 FSL 600 FWL CONGRESS SECTION	AVALON EAST	NM	EDDY	BONE SPRING	OIL PRODUCER	2021-05-20	5597	BONE SPRING	BONE SPRING	5800	BONE SPRING	1984-11-01	1984-11-11	1984-12-14		32.50819183	-104.1492124
30015253020000	GOVERNMENT `D`	5	SUPERIOR OIL CO THE	MATADOR PRODUCTION CO	21S 27E 1 NW NW SE	2310 FSL 2310 FEL CONGRESS SECTION	AVALON EAST	NM	EDDY	BONE SPRING	OIL PRODUCER	2021-06-14	5700	BONE SPRING	BONE SPRING	5800	BONE SPRING	1985-08-01	1985-08-11	1985-10-21	1985-08-26	32.50825719	-104.141429
30015253150000	GOVERNMENT `D`	6	SUPERIOR OIL CO THE	MATADOR PRODUCTION CO	21S 27E 12 N2 SE NE	1950 FNL 660 FEL CONGRESS SECTION	FENTON NORTHWEST	NM	EDDY	DELAWARE	OIL PRODUCER	2021-06-14	5735	BONE SPRING	DELAWARE	5800	DELAWARE	1985-09-17	1985-09-27	1985-11-03	1985-10-10	32.49655158	-104.1360623
30015253450000	GOVERNMENT `D`	9	SUPERIOR OIL CO THE	MATADOR PRODUCTION CO	21S 27E 12 NE NE NW	330 FNL 2310 FWL CONGRESS SECTION	FENTON NORTHWEST	NM	EDDY	DELAWARE	OIL PRODUCER	2021-06-14	3200	DELAWARE	DELAWARE	5800	DELAWARE	1985-09-27	1985-10-07	1985-11-20	1985-10-15	32.50099573	-104.1437226
30015253620000	GOVERMENT `D`	3	SUPERIOR OIL CO THE	MATADOR PRODUCTION CO	21S 27E 12 W2 NW NW	660 FNL 630 FWL CONGRESS SECTION	FENTON NORTHWEST	NM	EDDY	DELAWARE	OIL PRODUCER	2021-06-14	3200	DELAWARE	DELAWARE	3150	DELAWARE	1985-08-21	1985-08-31	1985-11-03	1985-09-11	32.50008109	-104.1491802
30015253620001	GOVERNMENT D	3	MERIT ENERGY CO	MATADOR PRODUCTION CO	21S 27E 12 W2 NW NW	660 FNL 630 FWL CONGRESS SECTION	FENTON NORTHWEST	NM	EDDY	MISC PERMIAN BASIN	OIL-WO	2019-07-01	3200	DELAWARE				1993-05-07	1993-05-17	1993-06-13		32.50008109	-104.1491802
30015329350000	ESPERANZA 12 FEDERAL COM	1	MEWBOURNE OIL CO	MEWBOURNE OIL CO	21S 27E 12 SE NW NE	990 FNL 1650 FEL CONGRESS SECTION	BURTON FLAT	NM	EDDY	PERMIAN CONVENTIONAL	GAS PRODUCER	2021-05-20	11970	BARNETT /SH/	MORROW LOWER	11900	MORROW	2003-08-01	2003-09-19	2003-11-11	2003-10-16	32.49911173	-104.1393357
30015329850000	ESPERANZA 1 FEDERAL COM	2	MEWBOURNE OIL CO	MEWBOURNE OIL CO	21S 27E 1 NW SE SW	1310 FSL 1920 FWL CONGRESS SECTION	BURTON FLAT	NM	EDDY	PERMIAN CONVENTIONAL	GAS PRODUCER	2018-09-26	11830	BARNETT /SH/	MORROW	11850	MORROW	2003-09-04	2004-04-13	2004-06-13	2004-05-25	32.50540272	-104.1449838
30015331690000	ESPERANZA 1 FEDERAL COM	1	MEWBOURNE OIL CO	MEWBOURNE OIL CO	21S 27E 1 SE	1500 FSL 1260 FEL CONGRESS SECTION	BURTON FLAT	NM	EDDY	PERMIAN CONVENTIONAL	GAS PRODUCER	2021-05-20	11910	BARNETT /SH/	MORROW	11900	MORROW	2004-01-07	2004-01-19	2004-03-15	2004-03-02	32.50596333	-104.1380805
30015333820000	JUSTICE FEDERAL COM	2	MEWBOURNE OIL CO	MEWBOURNE OIL CO	21S 27E 1 NE SW	3300 FSL 1650 FWL CONGRESS SECTION	BURTON FLAT	NM	EDDY	PERMIAN CONVENTIONAL	GAS PRODUCER	2021-05-20	11780	BARNETT /SH/	MORROW	11800	MORROW	2004-04-09	2004-10-28	2004-12-29	2004-11-30	32.51086898	-104.1458067
30015335000000	JUSTICE FEDERAL COM	1	MEWBOURNE OIL CO	MEWBOURNE OIL CO	21S 27E 1 NE	4220 FSL 960 FEL CONGRESS SECTION	BURTON FLAT	NM	EDDY	PERMIAN CONVENTIONAL	GAS PRODUCER	2021-05-20	11870	MISSISSIPPIAN	MORROW	11850	MORROW	2004-06-01	2004-07-07	2004-09-09	2004-08-04	32.51344471	-104.1370911
30015405220000	LONE TREE DRAW 13 STATE COM	4H	DEVON ENERGY PRODUCTION CO LP	DEVON ENERGY PRODUCTION CO LP	21S 27E 13 NE	150 FNL 2390 FEL CONGRESS SECTION	CARLSBAD	NM	EDDY	DELAWARE	OIL PRODUCER	2020-03-03	9572	DELAWARE	DELAWARE	9568	DELAWARE	2012-07-25	2012-12-25	2013-03-07	2012-12-31	32.48703001	-104.1416464
30015405227000	LONE TREE DRAW 13 STATE COM	4H	DEVON ENERGY PRODUCTION CO LP	DEVON ENERGY PRODUCTION CO LP	21S 27E 13 NE	150 FNL 2390 FEL CONGRESS SECTION	CARLSBAD	NM	EDDY	PERMIAN CONVENTIONAL	PILOT HOLE	2021-05-20	7950	BONE SPRING		7950	DEVONIAN	2012-12-07	2012-12-13	2012-12-24	2012-12-23	32.48703001	-104.1416464
30015411350000	LONETREE DRAW 13 STATE COM	5H	DEVON ENERGY PRODUCTION CO LP	DEVON ENERGY PRODUCTION CO LP	21S 27E 13	150 FNL 990 FEL CONGRESS SECTION	FENTON NORTHWEST	NM	EDDY	DELAWARE	OIL PRODUCER	2021-05-20	9585	DELAWARE	DELAWARE	9542	DELAWARE	2013-02-20	2013-07-31	2013-10-23	2013-08-14	32.48707741	-104.1371443
30015417380000	LONE TREE DRAW 13 STATE COM	8H	DEVON ENERGY PRODUCTION CO LP	DEVON ENERGY PRODUCTION CO LP	21S 27E 13	150 FNL 1980 FEL CONGRESS SECTION	CARLSBAD EAST	NM	EDDY	BONE SPRING	OIL PRODUCER	2021-05-20	12397	BONE SPRING	BONE SPRING	12300	BONE SPRING	2013-10-17	2015-02-18	2015-05-25	2015-03-07	32.48706496	-104.140354
30015482930000	CHOLULA 12-11 W0PM FED COM	001H	MEWBOURNE OIL CO	MEWBOURNE OIL CO	21S 27E 12 SE	1270 FSL 205 FEL CONGRESS SECTION	ALACRAN HILLS	NM	EDDY	WOLFCAMP DELAWARE	WELL PERMIT	2021-06-03				19651	WOLFCAMP	2021-05-03				32.49098961	-104.1346046
30015483330000	CHOLULA 12-11 W0IL FED COM	002H	MEWBOURNE OIL CO	MEWBOURNE OIL CO	21S 27E 12 SE	1300 FSL 205 FEL CONGRESS SECTION	ALACRAN HILLS	NM	EDDY	WOLFCAMP DELAWARE	WELL PERMIT	2021-06-03				19638	WOLFCAMP	2021-05-03				32.49107211	-104.1346045
30015487430000	CHOLULA 12-11 W0AD FED COM	001H	MEWBOURNE OIL CO	MEWBOURNE OIL CO	21S 27E 12 NE	1300 FNL 205 FEL CONGRESS SECTION	WILDCAT	NM	EDDY	MISC PERMIAN BASIN	WELL PERMIT	2021-07-23				19573	WOLFCAMP	2021-07-19				32.49838536	-104.1346136

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



WATER WELLS

CHICHARRON 12 SWD

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

Mewbourne Oil Company

CHICHARRON 12 SWD #1
500 FNL & 780 FEL 12-21S-27E
EDDY CO., NEW MEXICO

Author: sd		Date: 9 July, 2021

MEWBOURNE OIL COMPANY

CHICHARRON 12 FED SWD #1 APPLICATION

LIST OF NEARBY WATER WELLS (2 MILE AOR)

POD Number	POD Subbasin	County	Source	q64	q16	q4	Sec	Tws	Rng	X	Y	LAT	Long	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller
C 02992	C	EDDY	Shallow	SW	SW	NE	1	21S	27E	580594	3597311	32.510172	-104.141979	09/01/2003	11/11/2003	11/17/2003	250	186	BALLARD, THURMAN F.
C 03350	C	EDDY	Shallow	NW	SW	NE	1	21S	27E	580896	3597476	32.511642	-104.138748	11/01/2007	11/08/2007	02/17/2009	76	8	TAYLOR, CLINTON E.
C 03525 POD1	CUB	EDDY	Shallow	NW	NW	NW	1	21S	27E	579702	3598362	32.519723	-104.151388	11/30/2011	11/30/2011	12/12/2011	31	20	BRYAN, EDWARD O.
C 03525 POD3	CUB	EDDY	Shallow	NW	NW	NW	1	21S	27E	579728	3598332	32.519445	-104.151111	12/01/2011	12/01/2011	12/12/2011	30		BRYAN, EDWARD O.
C 03525 POD4	CUB	EDDY	Shallow	NW	NW	NW	1	21S	27E	579728	3598362	32.519722	-104.151111	12/02/2011	12/02/2011	12/12/2011	29		BRYAN, EDWARD O.
C 03689 POD1	C	EDDY	Shallow	NW	NW	NE	1	21S	27E	580490	3598014	32.516528	-104.143028	10/31/2013	11/01/2013	11/08/2013	95	10	CLINTON E. TAYLOR
C 03268 POD1	CUB	EDDY		SE	NE	SE	1	21S	27E	581201	3596915	32.506555	-104.135553						
C 03660 POD1	C	EDDY		SE	SW	NE	1	21S	27E	580850	3597291	32.509997	-104.13925						
C 03704 POD1	C	EDDY		SW	SE	NW	1	21S	27E	580147	3597242	32.509589	-104.146739						
C 00469	CUB	EDDY			NW	SE	2	21S	27E	579078	3596994	32.507421	-104.158144	08/06/1953	09/07/1953	08/11/1958	767		
C 03525 POD2	CUB	EDDY	Shallow	NE	NE	NE	2	21S	27E	579676	3598362	32.519723	-104.151666	11/30/2011	11/30/2011	12/12/2011	29	20	BRYAN, EDWARD O.
CP 01861 POD1	CP	EDDY		SE	NW	SE	8	21S	28E	584023	3595285	32.491647	-104.105655						
C 03864 POD1	CUB	EDDY	Shallow	NE	SE	SE	13	21S	27E	581218	3593472	32.4755	-104.135666	01/14/2016	01/17/2016	01/17/2016	160	45	JOHN SIRMAN
C 00465	CUB	EDDY		SW	NE	NW	14	21S	27E	578576	3594475	32.484735	-104.163698	08/26/1953	09/15/1953	03/29/1957			BEADLE-YATES
C 00466	CUB	EDDY		SW	SW	NW	14	21S	27E	578173	3594066	32.481074	-104.16802	07/27/1953	08/02/1953	07/08/1958	538		ROBERT W. ATHA
C 00473	CUB	EDDY			SW	NE	14	21S	27E	579087	3594177	32.482011	-104.158285	11/23/1953	12/21/1953	07/03/1958	562		A.M. BRINGINSTOOL
C 00507	C	EDDY	Artesian	SW	NE	NW	14	21S	27E	578576	3594475	32.484735	-104.163698			09/15/1953			BEADLE & YATES
CP 00529 POD1	CP	EDDY	Shallow	NW	NE	SW	17	21S	28E	583446	3593915	32.479329	-104.11192						
CP 00627 POD2	CP	EDDY		NW	NE	SW	17	21S	28E	583360	3593982	32.479944	-104.112833						
CP 00660	CP	EDDY		SE	SE	SW	17	21S	28E	583734	3593237	32.473194	-104.108917						
CP 01235 POD1	CP	EDDY		SW	SW	SE	17	21S	28E	583787	3593419	32.474833	-104.108333						
CP 00527 POD1	CP	EDDY	Shallow	SW	NE	SW	17	21S	28E	583446	3593715	32.477525	-104.111938			01/13/2006	100		ELMER SUMRULD
CP 00528 POD1	CP	EDDY	Shallow	NW	NE	SW	17	21S	28E	583446	3593915	32.479329	-104.11192			01/13/2006			
CP 00569	CP	EDDY	Shallow		SE	SW	17	21S	28E	583549	3593414	32.474802	-104.110868	02/10/1978	02/17/1978	02/23/1978	71	50	TAYLOR, W.H. SR.
CP 00576	CP	EDDY	Shallow	NW	SE	SW	17	21S	28E	583448	3593513	32.475703	-104.111934	01/07/1987	01/29/1987	02/09/1987	295	32	WEST, BILLY GEORGE
CP 00627	CP	EDDY	Shallow		NE	SW	17	21S	28E	583547	3593816	32.478428	-104.110854	05/12/1982	05/15/1982	05/24/1982	154	30	WEST, BILLY GEORGE
CP 00650	CP	EDDY	Shallow			SE	17	21S	28E	583347	3593612	32.476603	-104.113	05/16/1982	05/19/1982	05/24/1982	155	35	WEST, BILLY GEORGE
CP 01710 POD1	CP	EDDY	Shallow	NW	SW	SE	17	21S	28E	583936	3593547	32.475978	-104.106738	09/19/2018	09/22/2018	01/23/2019	160	151	AINSWORTH, RYAN
CP 01710 POD2	CP	EDDY	Shallow	NW	SW	SE	17	21S	28E	583971	3593509	32.475633	-104.106366	09/18/2018	09/19/2018	01/23/2019	160	149	AINSWORTH, RYAN
CP 01744 POD1	CP	EDDY	Shallow	SW	NE	SW	17	21S	28E	583476	3593764	32.477966	-103.111616	09/19/2018	09/20/2018	01/23/2019	90	82	AINSWORTH, RYAN
C 03272 POD1	CUB	EDDY		SE	SW	NW	18	21S	28E	581632	3594114	32.481259	-104.131206						
CP 01203 POD1	CP	EDDY		NW	NW	SW	18	21S	28E	581383	3594015	32.480389	-104.133862						
																AVG	197	63	

Water Lens

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:**	Chicharran 12 Fed SWD#1
Analysis Performed by:	EPD	**API Well Number:**	
Client:	Mewbourne Oil Company	**Well Name:**	Fresh Water
Reader Number:		**Test Number:**	C-03350
Water Lens Batch Number:	B41		

Metals

	Dilution Factor	mg/L	meq/L
Barium	1	**Less than 2**	**Less than 0.029**
Calcium	Calc	**1970**	**98.4**
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	**262.00**	**21.60**
Sodium	Calc	**Less than 410**	**Less than 0.02**
Strontium	n/a	*Test Not Run*	-
Manganese	n/a	*Test Not Run*	-
Boron		*Test Not Run*	-
Potassium	10	**27**	**0.7**

Anions

	Dilution Factor	mg/L	meq/L
Chloride	1	**203**	**6**
Sulfate	10	**Less than 200**	**Less than 4.2**
Nitrate	n/a	*Test Not Run*	-
Phosphate	10	**5.08**	**0.16**
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	**55**	**0.9**
Acetates/Formates (as Acetate)	Calc	**23**	**0.4**
Hydroxide (as OH^-)	Calc	**0**	**0**
Sulfide (Total)	n/a	*Test not run*	**Test not run**

Other

	Dilution Factor		
Hydrogen Sulfide (H_2S)	Calc	**1.0**	mg/L
Turbidity	1	**Less than 7**	NTU's
Total Hardness	1,000.0	**6,000.00**	mg/L $CaCO_3$
Oxidation/Reduction Potential (ORP)		**-6**	millivolts
Temperature		**77**	Fahrenheit
Stiff & Davis Scaling Index (S&DSI)		**0.11**	
Langelier Scaling Index (LSI)		**0.79**	
Larson-Skold Index		**53.09**	
Skillman Index		**1.251**	
Barite Saturation Index		**1.98**	
Gypsum Saturation Index		**0.88**	

	Dilution Factor		
ATP (picograms/mL)	Calc	*Test not run*	
Dissolved CO_2 (ppm)	Calc	**5**	
pH	n/a	**7.49**	
Total Alkalinity	1	**65**	mg/L $CaCO_3$
Total Dissolved Solids (TDS)	Calc	**4,100**	mg/L
Electrical Conductivity	Calc	**Greater than 9800**	uS/cm
Electrical Resistivity	Calc	**Less than 102.3**	Ohm*cm
Manganese/Iron Ratio		*Test Not Run*	
Specific Gravity		**1.0030**	

Comments

Fresh Water

Water Lens

Powered by: Water Lens™

Sample Information

Date of Sample Analysis:	2021/06	**Technician Name:**	vfuentes
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 W0LI 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

	Dilution Factor				Dilution Factor		
Hydrogen Sulfide (H_2S)	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**					
Langelier Scaling Index (LSI)		**-0.54**		**Total Dissolved Solids (TDS)**	Calc	**139,700**	mg/L
Larson-Skold Index		**4579.95**		**Electrical Conductivity**	Calc	**182,800**	uS/cm
Skillman Index		**1.251**		**Electrical Resistivity**	Calc	**5.5**	Ohm*cm
Barite Saturation Index		**1.80**		**Manganese/Iron Ratio**		*Test Not Run*	
Gypsum Saturation Index		**0.18**		**Specific Gravity**		**1.0970**	

Comments

Wolfcamp

Water Lens

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:**	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:	B41		

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**

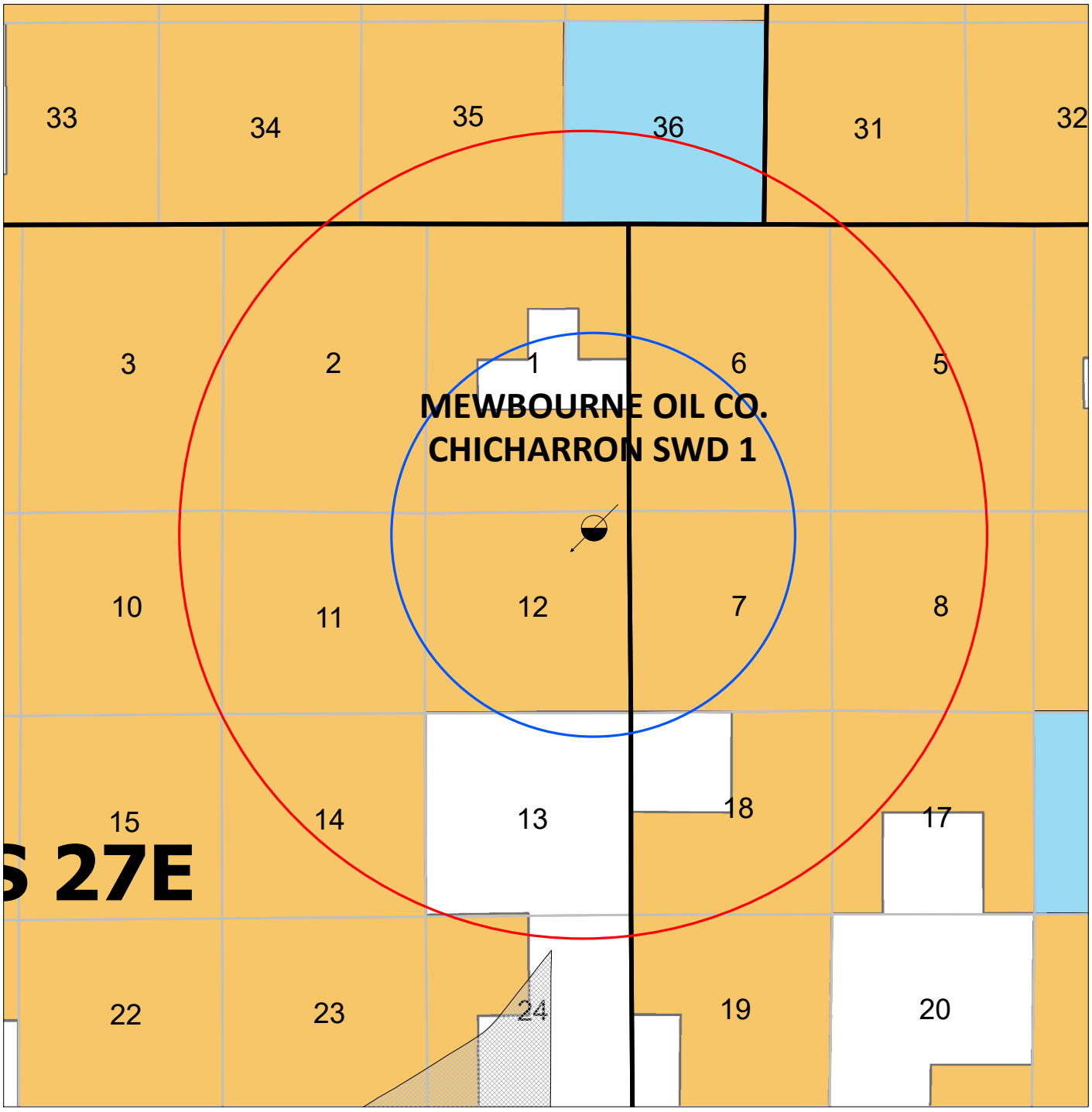
Other

	Dilution Factor		
Hydrogen Sulfide (H_2S)	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**	
Skillman Index		**1.251**	
Barite Saturation Index		**1.65**	
Gypsum Saturation Index		**0.13**	

	Dilution Factor		
ATP (picograms/mL)	Calc	*Test not run*	
Dissolved CO_2 (ppm)	Calc	**210**	
pH	n/a	**5.93**	
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



FEDERAL LANDS

STATE LANDS

PUBLIC LANDS

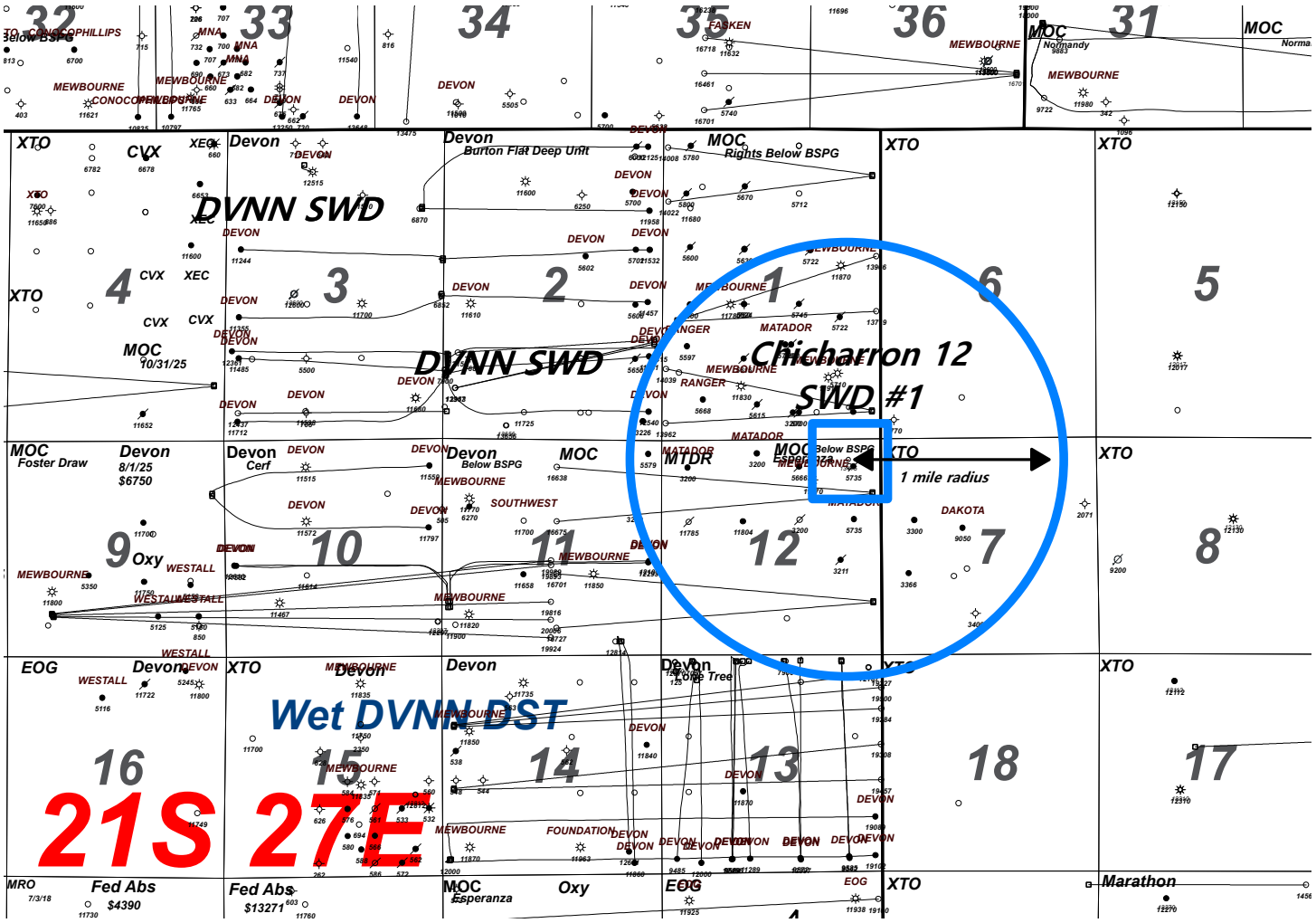
1 MILE AREA OF REVIEW

2 MILE AREA OF REVIEW

Mewbourne Oil Company

CHICHARRON 12 SWD #1
500 FNL & 780 FEL 12-21S-27E
EDDY CO., NEW MEXICO

Author: sd		Date: 9 July, 2021



Mewbourne Oil Company

Chicharron SWD
Offset Operators
12/21S/27E

6/29/2021	*Eddy County*	*New Mexico*
		N.Class

Listing of Notified Persons

Chicharron 12 Fed SWD #1 Application
500' FNL, 780' FEL
Section 12, 21S, 27E, Eddy County, NM

Surface Owner

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

Offsetting Operators Within 1 Mile AOR

Section 1-T21-R27:
Mewbourne Oil Company

Matador Production Company
One Lincoln Center
5400 LBJ Freeway, Suite 1500
Dallas, Texas 75240

Ranger 40 Petroleum, LLC
244 FM 306 STE 120/363
New Braunfels, TX 78130

Section 11-T21-R27:

Southwest Royalties, Inc.
200 N Loraine St. Ste. 400
Midland, TX 79701

Section 12-T21-R27:
Mewbourne Oil Company

Matador Production Company
One Lincoln Center
5400 LBJ Freeway, Suite 1500
Dallas, Texas 75240

Section 13-T21-R27:

Devon Energy Production Company, LP
333 W. Sheridan Ave.
Oklahoma City, OK 73102

Section 7-T21-R28:

Dakota Resources Inc (I)
4914 N Midkiff Rd
Midland, TX 79705

XTO Holdings LLC
22777 Springwoods Village Pkwy
Spring, TX 77389-1425

Section 6-T21-R28:

XTO Holdings LLC
22777 Springwoods Village Pkwy
Spring, TX 77389-1425

Carlsbad Current Argus.
PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0004847087

This is not an invoice

MEWBOURNE OIL COMPAN Y
3901 S BROADWAY AVE

TYLER, TX 75701-8716

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:

07/30/2021

Amy Kolliott
Legal Clerk

Subscribed and sworn before me this July 30, 2021:

Kathleen Allen
State of WI, County of Brown
NOTARY PUBLIC

1-7-25
My commission expires

KATHLEEN ALLEN
Notary Public
State of Wisconsin

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 Chicharron 12 Fed SWD #1 as a salt water disposal well. The Chicharron 12 Fed SWD #1 is located 500' FNL and 780' FEL, Unit Letter A, Section 12, Township 21 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 Devonian formation into an open-hole interval from a depth of 12,750 feet to 13,425 feet. Expected maximum injection rates are 25,000 BWPD at a maximum injection pressure of 2,550 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 8 miles Northeast of Carlsbad, New Mexico.
#04847087, Current Argus, Jul. 30, 2021

Ad # 0004847087
PO #: 04847087
# of Affidavits 1

This is not an invoice

MEWBOURNE
OIL COMPANY

July 29, 2021

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

Re: Chicharron 12 Fed SWD #1
Sec 12, Twp 21S, 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 zanderson@mewbourne.com or call me at (575) 393-5905.

Sincerely,

MEWBOURNE OIL COMPANY

Zane Anderson
Engineer
zanderson@mewbourne.com

Mewbourne Oil Company
Chicharron 12 FED SWD 1
C-108 Attachment
July 2021

STATEMENTS REGARDING SEISMICITY AND WELL SPACING

Historically, the area nearby our proposed Chicharron 12 Fed SWD #1 has not seen a significant amount of seismic activity. There has been one seismic event (per USGS database) in this area in 1974 (magnitude 3.9) that was located 13 miles south of our proposed SWD.

Mewbourne Oil Company does not own 2D or 3D seismic data near our proposed SWD therefore our fault interpretation is based on subsurface mapping and data obtained from public technical sources. Our publicly sourced faults data is from a 2005 paper by Ruppel etal. (map attached). Based off our subsurface mapping of the deep formations, Mewbourne has not interpreted any faults in the immediate area. The closest known mapped "deep" fault, that is documented in public data, is approximately 15.4 miles southwest of our proposed SWD.

A very recent technical paper written by Snee and Zoback , "State of Stress in the Permian, Basin, Texas and New Mexico: Implications for induced seismicity", that was published in the February 2018 edition of The Leading Edge, evaluates the strike-slip probability, using probabilistic FSP analysis, of known Permian Basin faults. This study predicts that the Precambrian fault located on our map has less than a 10% probability of being critically stressed so as to create an induced seismicity event. The main reason for this low probability is due to the relationship of the strike of this fault to the regional Shmax orientation in study area 3 (see Figure #2) is approximately N 35 deg in this area.

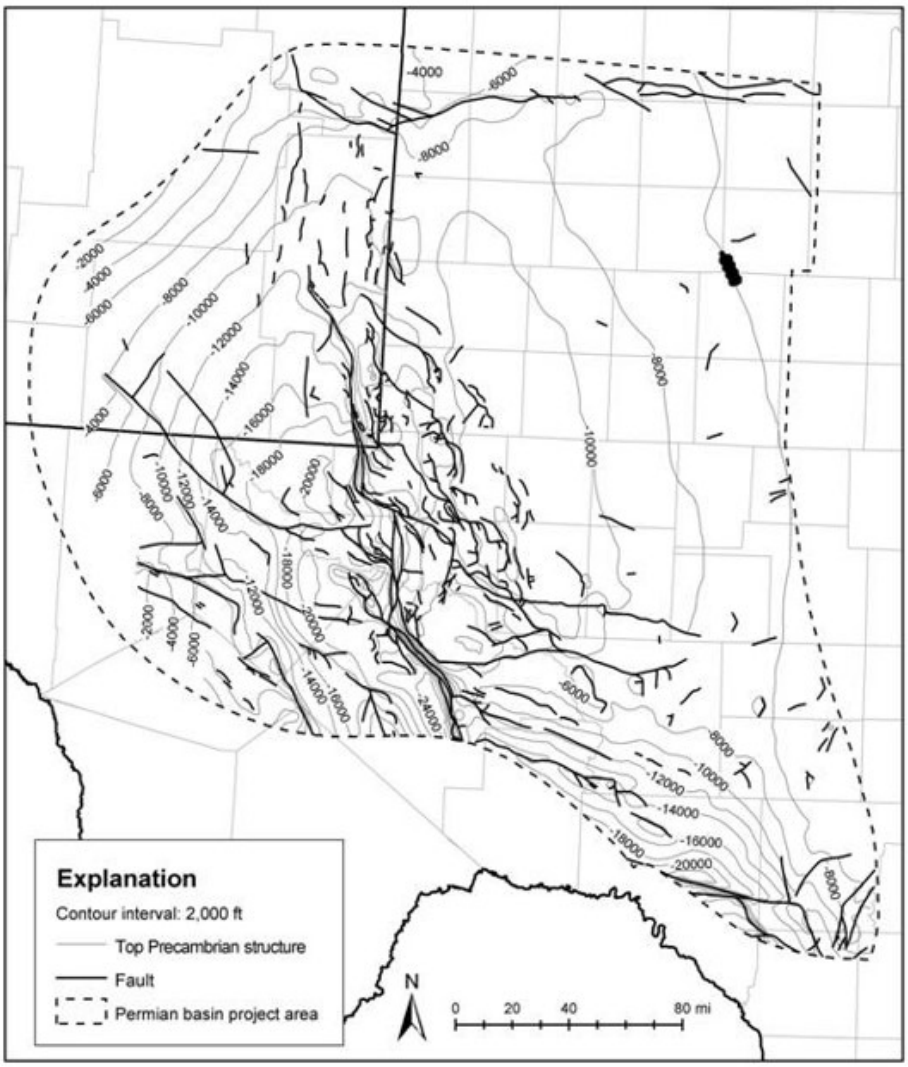
Figure 3 from the Snee and Zoback paper highlights additional faults in this area that trend more in a NE/SW direction. There is a high probability that these mapped faults are actually surface faults as the apparent source of these fault traces is from a Geological Map of New Mexico (see Figure 4).

The Chicharron 12 Fed SWD #1 is located over 1.5 miles away from any active, permitted or pending Devonian SWD application (see map), to meet current OCD and industry recommended practices.

Operator	Well Name	Status	Distance from Chicharron (miles)
Devon Energy Production Company, LP	Burton Flat Deep SWD #001	Active	1.54
Mewbourne Oil Company	Freedom 36 St. SWD #1	Permitted	1.83
San Mateo Stebins Water Management, LLC	Jim Pat SWD #004	Pending	2.62

Zane Anderson

Engineer
zanderson@mewbourne.com
575-393-5905



Precambrian Structure Map In the Permian Basin (Ruppel etal.)

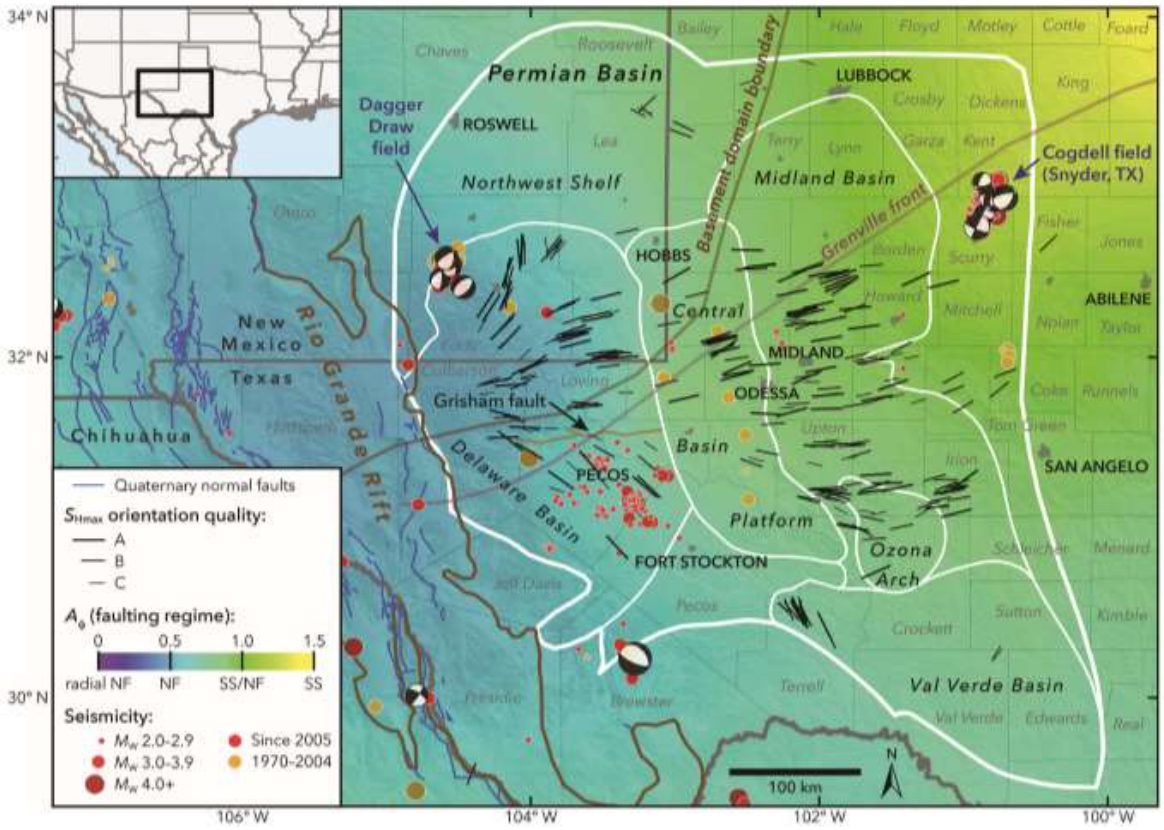


Figure 1. State of stress in the Permian Basin, Texas and New Mexico. Black lines are the measured orientations of S_{Hmax}, with line length scaled by data quality. The colored background is an interpolation of measured relative principal stress magnitudes (faulting regime) expressed using the A_ϕ parameter (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).

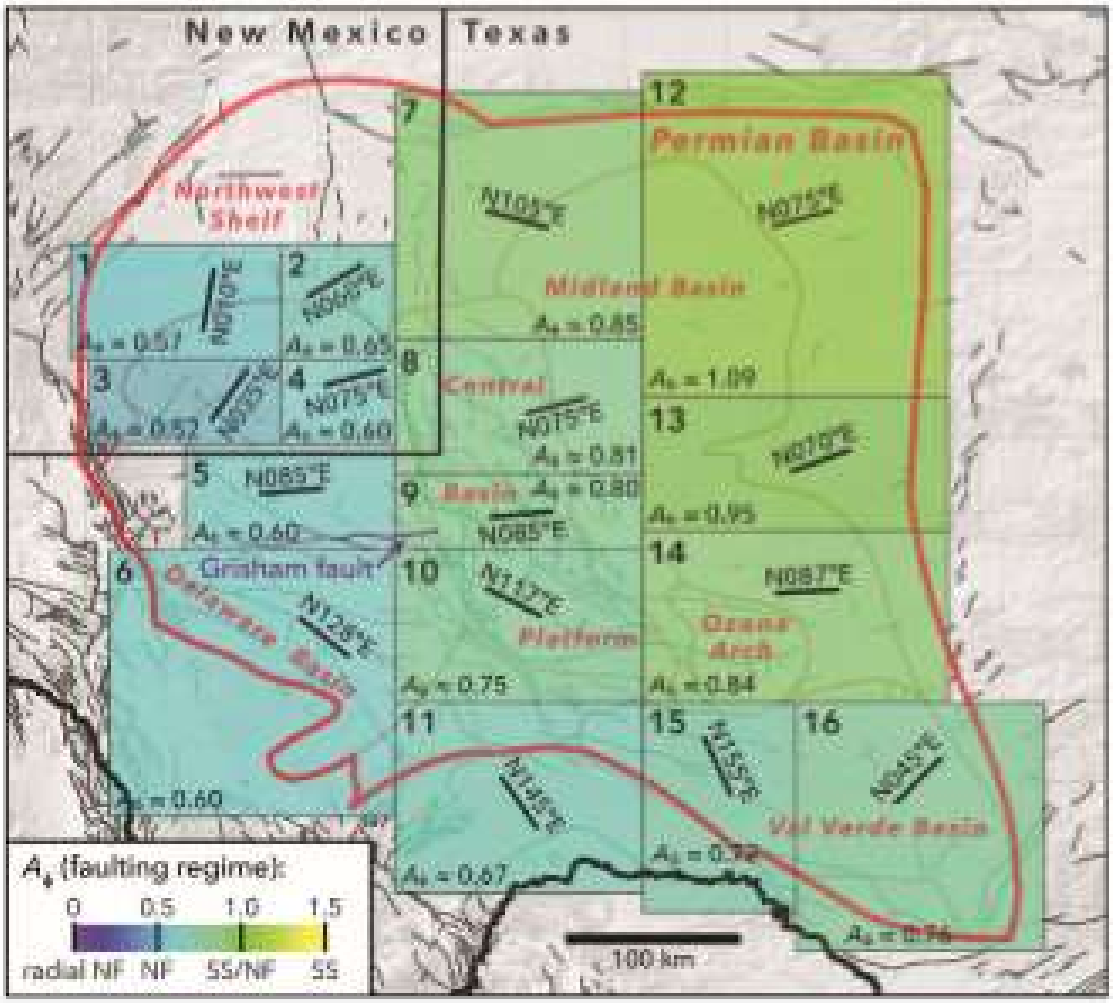


Figure 2. Map of study areas chosen for FSP analysis on the basis of broadly similar stress conditions. Text annotations indicate representative S_{Hmax} orientation and relative principal stress magnitudes (A_ϕ parameter) for each study area based on the data presented in Figure 1. Gray lines in the background indicate fault traces compiled from Ewing et al. (1990), Green and Jones (1997), Ruppel et al. (2005), and the USGS Quaternary Faults and Folds Database (Crone and Wheeler, 2000), to which we apply FSP analysis.

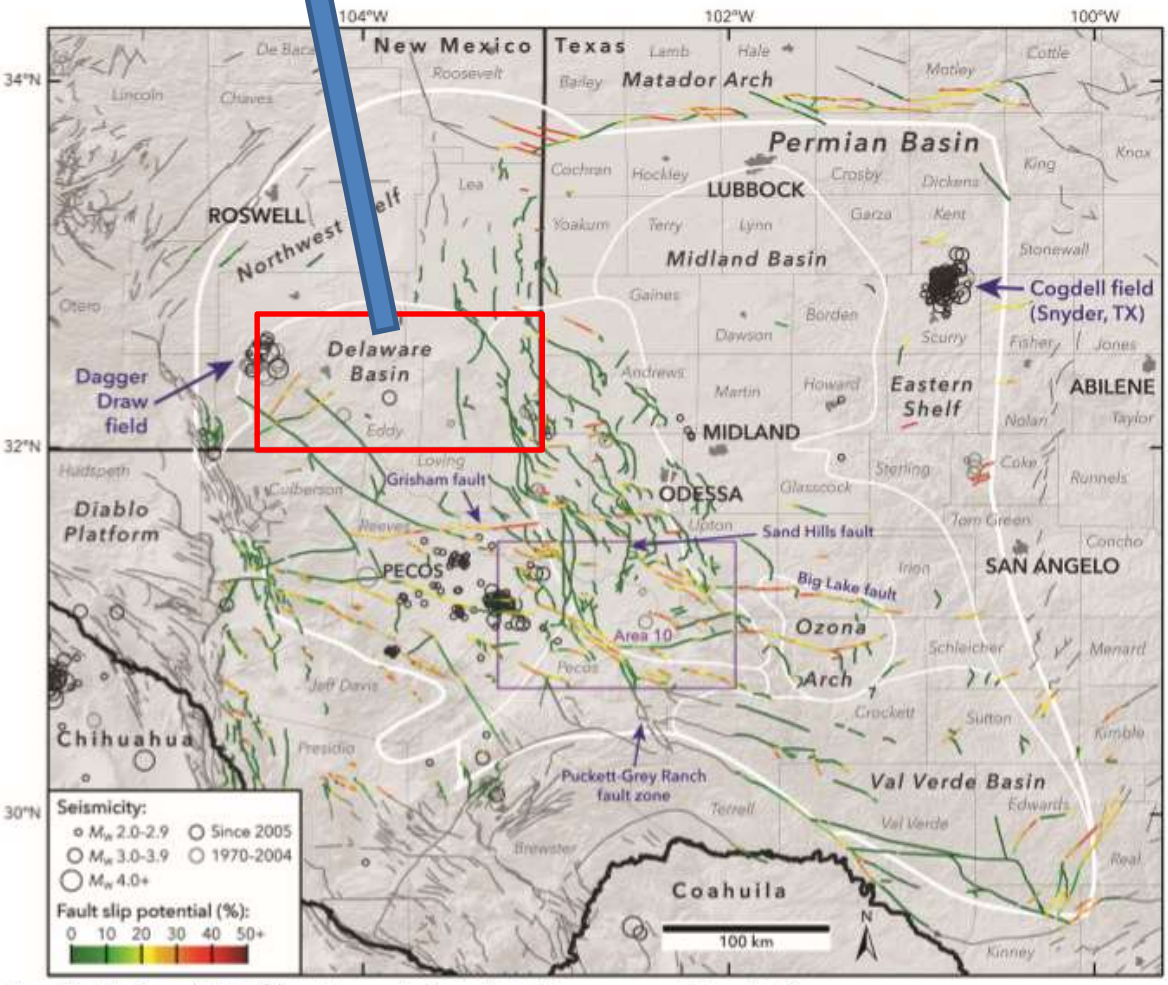


Figure 3. Results of our probabilistic FSP analysis across the Permian Basin. Data sources are as in Figures 1 and 2.

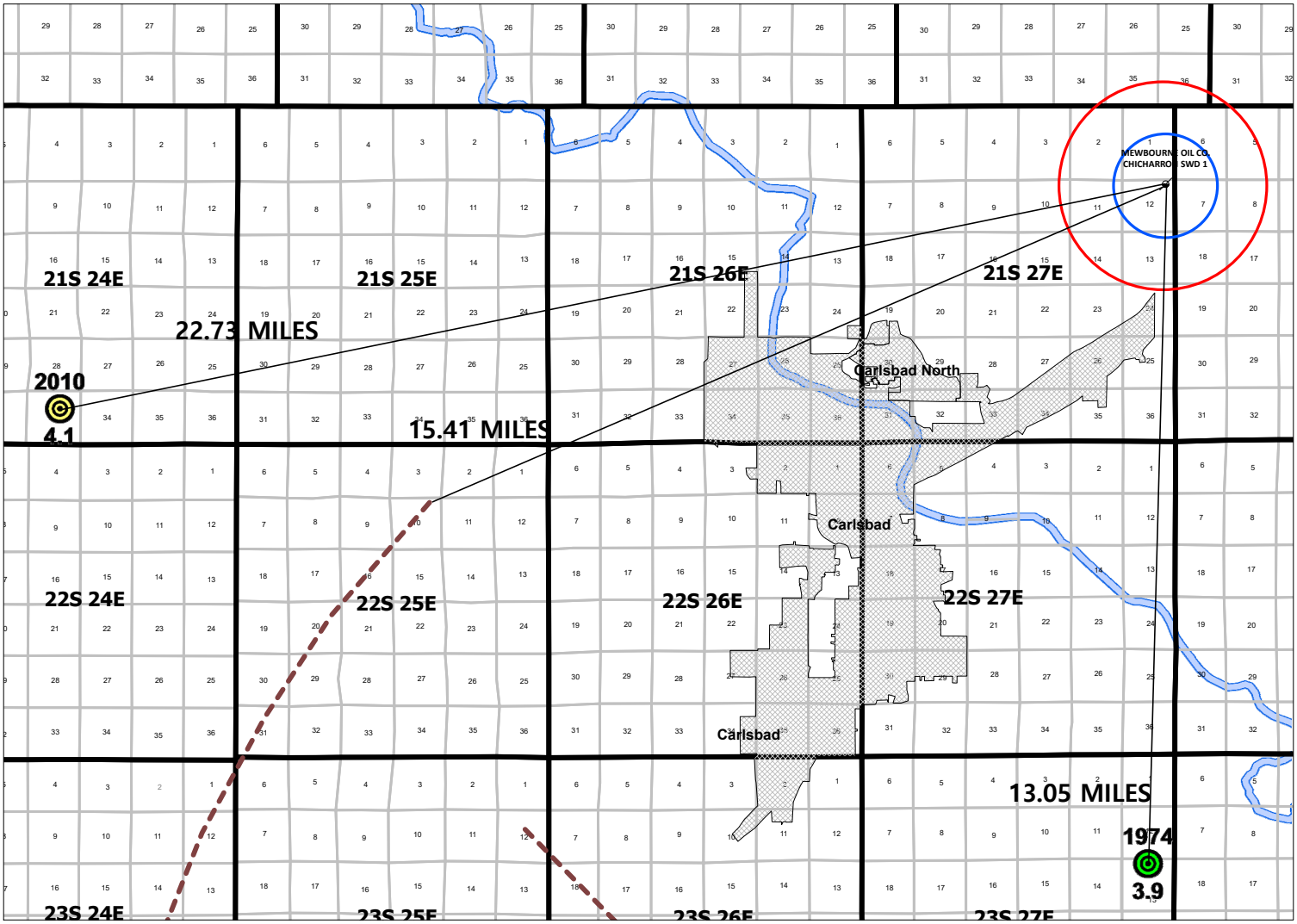
References

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.



1974
3.9

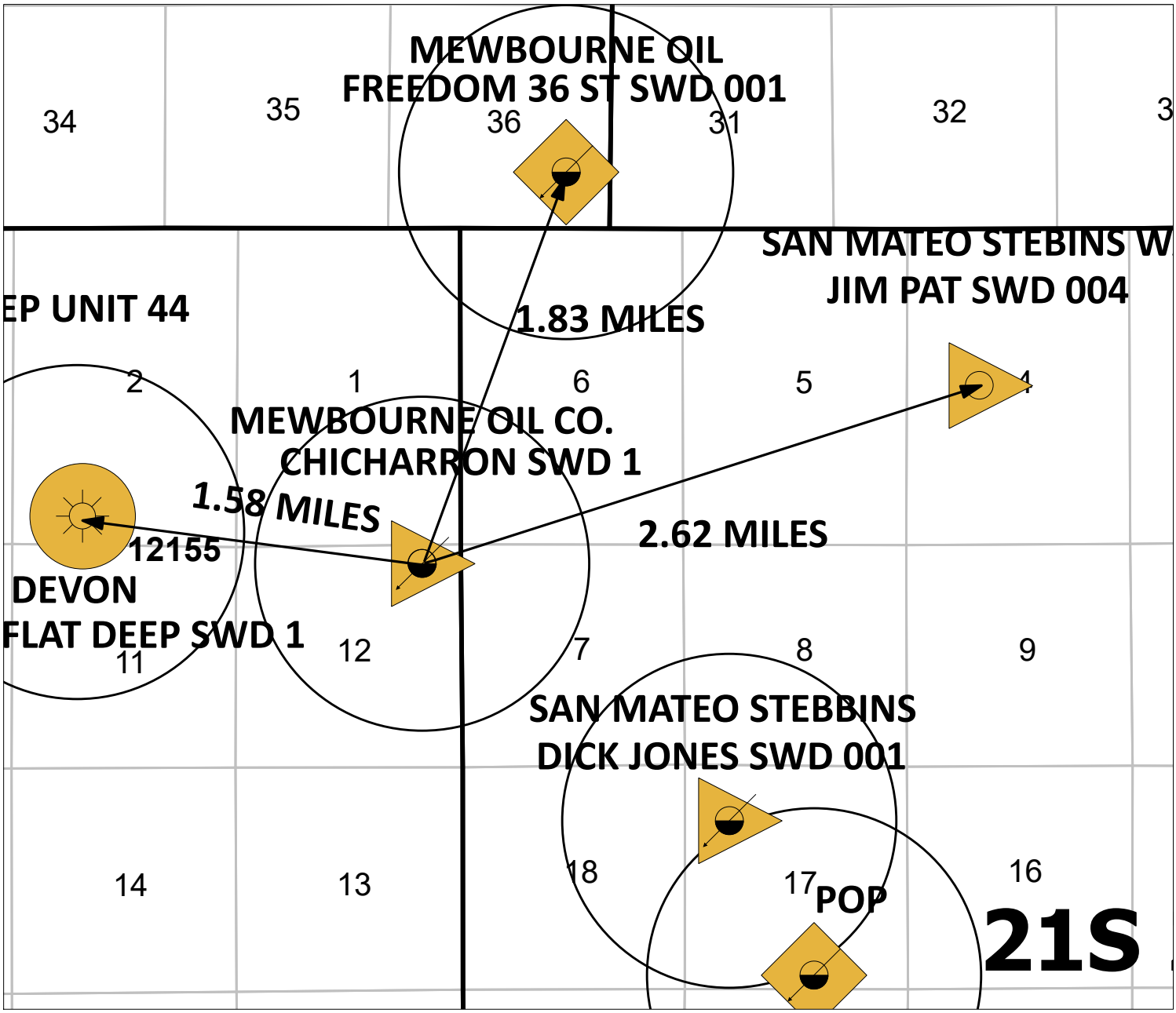
EARTHQUAKE LOCATIONS PROVIDED BY USGS

FAULT LOCATIONS SOURCED FROM THE UNIVERSITY OF TEXAS BUREAU OF ECONOMIC GEOLOGY

Mewbourne Oil Company

CHICHARRON 12 SWD #1
500 FNL & 780 FEL 12-21S-27E
EDDY CO., NEW MEXICO

Author: sd		Date: 9 July, 2021



ACTIVE SWD WELL

SWD WELL APPLICATION PENDING

PERMITTED LOCATIONS

THREE QUARTER MILE RADIUS

Mewbourne Oil Company

CHICHARRON 12 SWD #1
500 FNL & 780 FEL 12-21S-27E
EDDY CO., NEW MEXICO

Author: sd		Date: 9 July, 2021

C — **C'**

300152884100	2.5 miles	300153082800	1.6 miles	300151079400	3.5 miles	CHICHARRON 12 SWD 1	1.6 miles	300154098700	1.2 miles	300153227400
OXY U S A INC GOVERNMENT NBFD 1 Reference=KB Datum=3283.00 660 FSL/330 FWL TWP: 20 S - Range: 28 E - Sec. 11		MEWBOURNE OIL CO DERRINGER FEDERAL S 1 Reference=KB Datum=3265.00 SW TWP: 20 S - Range: 29 E - Sec. 18		YATES HARVEY CO INC STEBBINS FEDERAL DE 1 Reference=KB Datum=3255.00 1980 FNL/990 FEL TWP: 20 S - Range: 29 E - Sec. 30		MOC CHICHARRON 12 SWD 1 Reference=KB Datum=3222.00 500 FN 780 FE TWP: 21 S - Range: 27 E - Sec. 0		DEVON ENERGY PROD BURTON FLAT DEEP SW 1 Reference=GR Datum=3230.00 330 FSL/1550 FWL TWP: 21 S - Range: 27 E - Sec. 2		DEVON ENERGY PROD BURTON FLAT DEEP UN 44 Reference=KB Datum=3220.00 W2 TWP: 21 S - Range: 27 E - Sec. 3

11M/20S/28E
5/1/96 Test DVNN
Pf: 12204-12324. Swb 18 BW
No Show Oil or Gas

18N/20S/29E
4/9/14 DVNN SWD Completion
Open Hole: 12660-13200
SWD Inj Cum: 14 MMBW
Still Active

30H/20S/29E
Wet DVNN DST
Complete Uphole

12A/21S/27E
Proposed Chicharron 12 SWD #1

2V/21S/27E
No Log Available
7/21/13 DVNN SWD Completion
Open Hole 12607-13656
SWD Inj Cum: 13 MMBW
Still Active

3L/21S/27E
10/31/13 DVNN SWD Completion
SWD PF: 12317-12325, 12400-12460
SWD Inj Cum: 3 MMBW
Still Active

500

0

-500

-1000

MSSP

WDFD

DVNN

11684 12108 12772

12059 12543 12617

12449 12626 12709

12190 12670 12750

11783 12504 12574

12250 12307

Wet DVNN Test

Perf 12324 - 12204

TD=12375.00
Cum Oil All Zones: 46 bbls
Cum Gas All Zones: 2.0 BCF
Cum Water All Zones: 9.9 bbls

Approved DVNN Injection Interval

TD=13200.00

Rec. 3000.00 FT MCW
9761.00 FT XWW
3000.00 FT MCW
9761.00 FT XWW
3000.00 FT MCW
9761.00 FT XWW

Wet DVNN Test

TD=13391.00
Cum Oil All Zones: 28 bbls
Cum Gas All Zones: 0.0 BCF
Cum Water All Zones: 126 bbls

RGR(N/A) 0 150
MWD-GR(N/A) 0 150
GR_API(N/A) 0 150
Gamma(N/A) 0 150

Est Top MSSP 12190

Est Top WDFD 12670

Est Top DVNN 12750

Proposed DVNN Injection Interval

TD=13415.00

Est Top Montoya - 13425
Est Top Simpson - 13700
Est Top Ellenburger - 13825

GR_API(N/A) 0 150
Gamma(N/A) 0 150

Approved DVNN Injection Interval

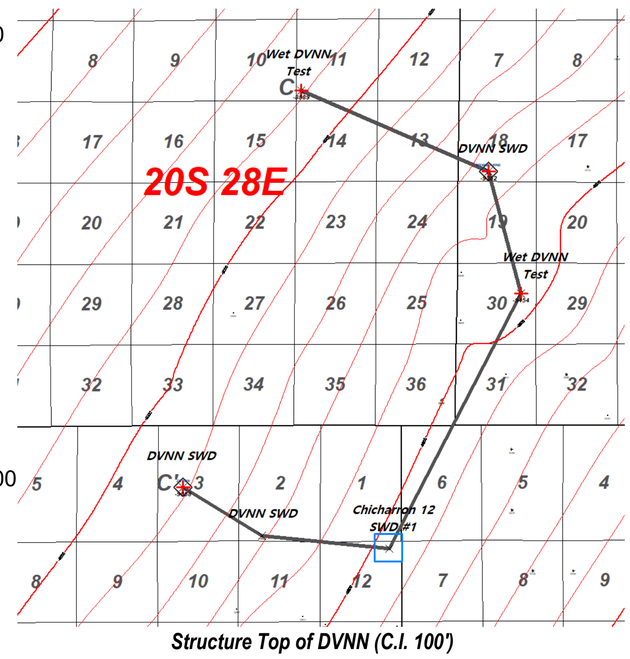
TD=13656.00

Approved DVNN Injection Interval

Perf 12325 - 12317

Perf 12460 - 12400

TD=12600.00
Cum Oil All Zones: 0.1 bbls
Cum Gas All Zones: 0.3 BCF
Cum Water All Zones: 1.4 bbls



Structure Top of DVNN (C.I. 100')

Chicharron 12 SWD C-C'

MEWBOURNE OIL COMPANY
Chicharron 12 Fed SWD #1

PLUGGING RISK ASSESSMENT

5 ½" Flush Joint Injection Tubing Inside of 7 ⅝" Casing

Specs

5 ½" 17# P110 Flush Joint Tubing	OD (in)	ID (in)	Drift (in)	LINED ID (in)	FLARE DRIFT (in)
Coupling	N/A	N/A	N/A	N/A	N/A
Body	5.500	4.892	4.767	4.520	4.275
7 ⅝" 39# P110 Casing	**OD (in)**	**ID (in)**	**Drift (in)**	**Wall Thickness (in)**	**5 ½" Flush Jt. Clearance (in)**
	7.625	6.625	6.500	0.500	0.562

*All fishing procedures are subject to well conditions. Determinations are made onsite on a case by case scenario.

Overshot Fishing Procedure

A 6.625" O.D. Bowen Series 150 overshot (Assembly 8625) with a spiral grapple will be utilized to perform this overshot operation. *NOTE: (The 6.625" O.D. will be turned down to 6.500" O.D. prior to commencing operation). Details on the overshot are noted below.

Series 150 Overshots

Tools are listed in order of maximum catch size.

The following table shows only a partial listing of available NOV Dowhole Bowen® overshots.

NOTE: Nitralloy Grapples are available upon request.

Bowen Series 150 Releasing and Circulation Overshots
Maximum Catch Size 4¾" to 5½" Inclusive

Maximum Catch Size (Spiral)		4¾	4⅝	4¾	4¾	5	5	5½
Maximum Catch Size (Basket)		3⅞	4⅛	4¼	4¼	4¼	4¼	4⅞
Overshot O.D.		5⅝	5⅝	5⅝	5¾	5⅞	6⅝	6⅝
Type		F.S.	S.H.	S.H.	S.F.S.	S.H.	F.S.	S.H.
Complete Assembly	Part No.	5896	5698	C-5168	8975	C-5171	C-4825	8625
(Dressed Spiral Parts)	Weight	130	130	133	138	140	192	165
Replacement Parts								
Top Sub	Part No.	5897	5699	A-5169	8976	A-5172	B-4826	8626
Bowl	Part No.	5898	5700	B-5170	8977	B-5173	B-4827	8617
Packer	Part No.	169	1140	B-2199	6114	L-5950	L-4505	8618
Spiral Grapple	Part No.	165	1135	B-2201	6112	B-4389	M-1071	8619
Spiral Grapple Control	Part No.	186	1137	B-2202	6113	B-4370	M-1072	8620
Standard Guide	Part No.	187	1143	B-2203	6121	B-4371	L-1074	8621
Basket Parts								
Basket Grapple	Part No.	165	1135	B-2201	6112	B-4389	M-1071	8619
Basket Grapple Control	Part No.	186	1137	B-2202	6113	B-4370	M-1072	8620
Mill Control Packer	Part No.	169-R	1140-R	B-2199-R	6114-R	L-5950-R	M-4505	L-8618-R

In the Event of a Connection Break

1. If dressing is needed, trip in hole with a mill and mill connection to allow for (above listed) turned-down overshot to be latched onto the body of the tubing. If no milling is required, trip in hole with (above listed) turned-down overshot and latch onto fish.
2. Once latched onto fish, pick up string weight and straight pull to release Model R packer.
3. Once packer is released, trip out of hole with fish.

In the Event of a Body Break

1. If dressing is needed, trip in hole with a mill and mill tubing to allow for (above listed) turned-down overshot to be latched onto the body of the tubing. If no milling is required, trip in hole with (above listed) turned-down overshot and latch onto fish.
2. Once latched onto fish, pick up string weight and straight pull to release Model R packer.
3. Once packer is released, trip out of hole with fish.

*NOTE: (Wash pipe with a mill may be substituted for dressing off a break instead of a standard mill to ensure pipe stabilization and to ensure that the casing is not damaged due to milling.)

In the Event a Mill Cannot be Used

If an inadequate fishing neck is looking up and a mill cannot be used to dress the fish, a cutting tool may be utilized to cut off the damaged portion of tubing and a spear used to retrieve the cut-off piece. Once the cut-off piece is retrieved, the (above listed) turned-down overshot may be utilized to retrieve the fish and release the packer.

Spear Fishing Procedure

In the event the (above listed) turned-down overshot cannot be used or the fishing neck is inadequate, a spear may be used to spear into the fish. In the case of insert lined pipe, a smaller spear will be utilized to go inside the insert liner and pull out the lining. Once the lining has been removed, trip out of hole with insert liner. Pick up the proper sized spear for the pipe ID. Trip in hole with tubing spear, spear the fish, pick up string weight and straight pull to release the packer. Trip out of hole with fish and packer assembly.

7” Flush Joint Injection Tubing Inside of 9 ⅝” Casing

Specs

7” 26# HCP110 Flush Joint Tubing	OD (in)	ID (in)	Drift (in)	LINED ID (in)	FLARE DRIFT (in)
Coupling	N/A	N/A	N/A	N/A	N/A
Body	7.000	6.276	6.151	6.080	5.815
9 ⅝” 43.5# HCL80 Casing	**OD (in)**	**ID (in)**	**Drift (in)**	**Wall Thickness (in)**	**7” Flush Jt. Clearance (in)**
	9.625	8.755	8.599	0.435	0.877

*All fishing procedures are subject to well conditions. Determinations are made onsite on a case by case scenario.

Overshot Fishing Procedure

A Bowen Series 150 overshot (Assembly 9217) with a spiral grapple will be utilized to perform this overshot operation. Details on the overshot are noted below.

Bowen Series 150 Releasing and Circulation Overshots

Maximum Catch Size 6⅝" to 7¼" Inclusive

Maximum Catch Size (Spiral)		6⅝	6¾	7	7¼
Maximum Catch Size (Basket)		5⅞	6⅛	6⅜	6⅝
Overshot O.D.		8¼	7⅞	8⅛	8⅜
Type		F.S.	S.H.	S.H.	S.H.
Complete Assembly	Part No.	C-3032	C-5222	9217	C-5354
(Dressed Spiral Parts)	Weight	280	243	251	260
Replacement Parts					
Top Sub	Part No.	A-3033	A-5223	9218	A-5355
Bowl	Part No.	B-3034	B-5224	9219	B-5356
Packer	Part No.	A-1814	B-5225	9224	B-5357
Spiral Grapple	Part No.	N-84	B-5227	9222	B-5359
Spiral Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Standard Guide	Part No.	A-1818	A-5229	9226	A-5361
Basket Parts					
Basket Grapple	Part No.	N-84	B-5227	9222	B-5359
Basket Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Mill Control Packer	Part No.	A-1814-R	B-5225-R	9224-R	B-5357-R

In the Event of a Connection Break

1. If dressing is needed, trip in hole with a mill and mill connection to allow for (above listed) overshot to be latched onto the body of the tubing. If no milling is required, trip in hole with (above listed) overshot and latch onto fish.
2. Once latched onto fish, pick up string weight and straight pull to release Model R packer.
3. Once packer is released, trip out of hole with fish.

In the Event of a Body Break

1. If dressing is needed, trip in hole with a mill and mill tubing to allow for (above listed) overshot to be latched onto the body of the tubing. If no milling is required, trip in hole with (above listed) overshot and latch onto fish.
2. Once latched onto fish, pick up string weight and straight pull to release Model R packer.
3. Once packer is released, trip out of hole with fish.

*NOTE: (Wash pipe with a mill may be substituted for dressing off a break instead of a standard mill to ensure pipe stabilization and to ensure that the casing is not damaged due to milling.)

In the Event a Mill Cannot be Used

If an inadequate fishing neck is looking up and a mill cannot be used to dress the fish, a cutting tool may be utilized to cut off the damaged portion of tubing and a spear used to retrieve the cut-off piece. Once the cut-off piece is retrieved, the (above listed) overshot may be utilized to retrieve the fish and release the packer.

Spear Fishing Procedure

In the event the (above listed) overshot cannot be used or the fishing neck is inadequate, a spear may be used to spear into the fish. In the case of insert lined pipe, a smaller spear will be utilized to go inside the insert liner and pull out the lining. Once the lining has been removed, trip out of hole with insert liner. Pick up the proper sized spear for the pipe ID. Trip in hole with tubing spear, spear the fish, pick up string weight and straight pull to release the packer. Trip out of hole with fish and packer assembly.

Abandonment Procedure in-the-Event that Injection Tubing Cannot be Fished

The operator will need to ensure that geological formations are properly isolated to prevent future fluid communication. The operator will first insure that the injection tubing I.D. is open and clear. Once injection tubing I.D. is confirmed to be open and clear, run in hole with a wireline set profile plug and set plug inside of the packer assembly. This plug would allow for cement to fill both the I.D. of the injection tubing and the tubing-to-casing annulus to provide isolation between the different geological formations. Next, run in hole with wireline conveyed perforating guns and shoot perforations at the deepest depth that the injection tubing is still in the wellbore. Trip in hole with a workstring and latch onto the injection tubing with an overshot, spear, cement retainer or any other tool that would ensure a work string-to-injection tubing seal and allow the operator to pump cement down the remaining injection tubing. Rig up cement truck and cement the annulus between the injection tubing and casing to surface.