

# Initial Application Part I

Received 8/6/20

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

B5MY3-200806-C-1080

Revised March 23, 2017

RECEIVED: <b>8/6/20</b>	REVIEWER:	TYPE: <b>SWD</b>	APP NO: <b>pBL2022446240</b>
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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:** Longfellow Energy, LP **OGRID Number:** 372210  
**Well Name:** Ozzy State 18 SWD 1 **API:** 30-015-  
**Pool:** SWD; Canyon **Pool Code:** 96184

**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**SWD-2389**

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 holdersB. ☒ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☒ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ 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.**

Brian Wood

Print or Type Name

Signature

8-6-20

Date

505 466-8120

Phone Number

brian@permitswest.com

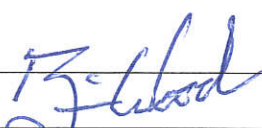
e-mail Address

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 XXX Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? XXX Yes \_\_\_\_\_ No
- II. OPERATOR: LONGFELLOW ENERGY, LP  
ADDRESS: 16803 NORTH DALLAS PARKWAY, ADDISON TX 75001  
CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120
- 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 XXX 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: **OZZY STATE 18 SWD 1**
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: BRIAN WOOD  TITLE: CONSULTANT  
SIGNATURE: \_\_\_\_\_ DATE: JULY 30, 2020  
E-MAIL ADDRESS: brian@permitswest.com
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

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



Side 2

## III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

## XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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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.



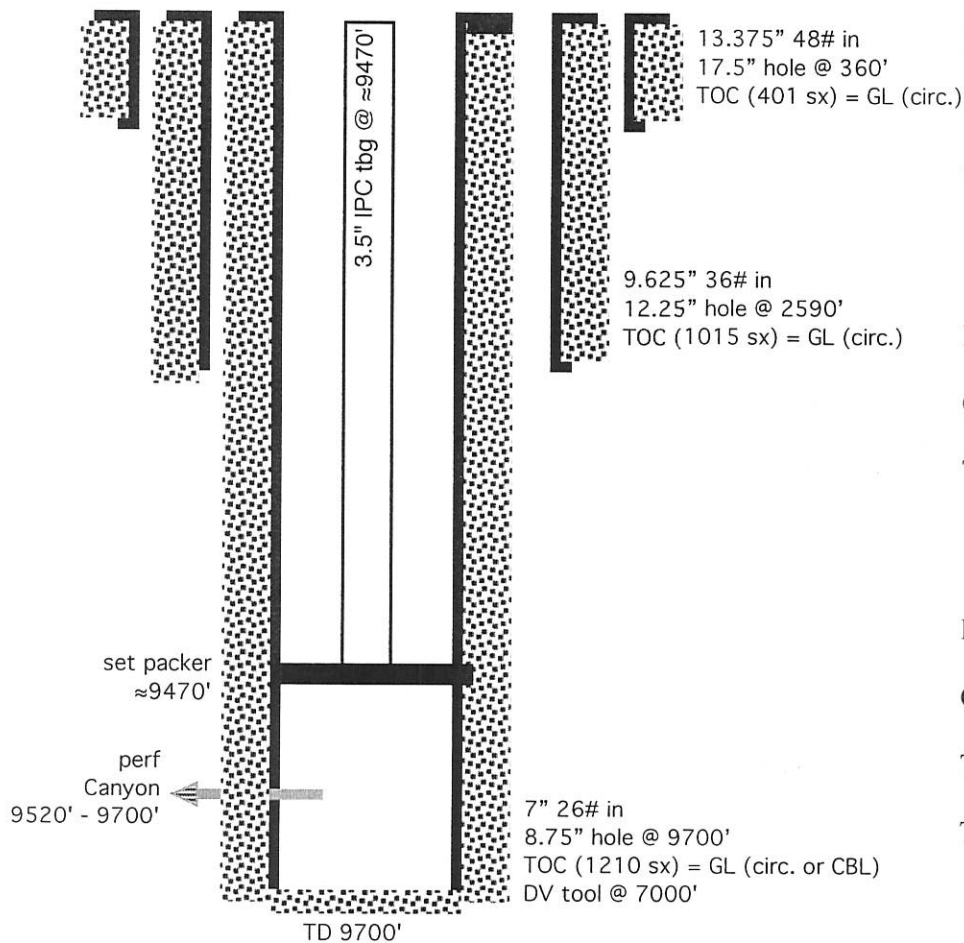
## INJECTION WELL DATA SHEET

OPERATOR: LONGFELLOW ENERGY, LPWELL NAME & NUMBER: OZZYY STATE 18 SWD 1

WELL LOCATION: 2280' FSL & 1972' FEL      J      18      17 S      29 E  
    FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

WELLBORE SCHEMATIC

(not to scale)

WELL CONSTRUCTION DATASurface Casing

Hole Size: 17.5"      Casing Size: 13.375"  
 Cemented with: 401 sx.      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: GL      Method Determined: CIRCULATE

Intermediate Casing

Hole Size: 12.25"      Casing Size: 9.625"  
 Cemented with: 410 sx.      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: 1015      Method Determined: CIRCULATE

Production Casing

Hole Size: 8.75"      Casing Size: 7"  
 Cemented with: 1210 sx.      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement: GL      Method Determined: CIRC. OR CBL  
 Total Depth: 9700'

Injection Interval9520 feet to 9700'

(Perforated or Open Hole; indicate which)

■■■■■■■■■■

INJECTION WELL DATA SHEETTubing Size: 3.5" J-55 9.3# Lining Material: INTERNAL PLASTIC COATType of Packer: ASI-XPacker Setting Depth: ≈9470'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? xxx Yes \_\_\_\_\_ No

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

2. Name of the Injection Formation: CANYON

3. Name of Field or Pool (if applicable): SWD; CANYON (96184)

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO

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

OVER: SAN ANDRES (2382'), GLORIETA (3844;), YESO (3903'),  
BLINEBRY (5337'), & TUBB (5337')

UNDER: MORROW (10186')

LONGFELLOW ENERGY, LP  
OZZY STATE 18 SWD 1  
2280' FSL & 1972' FEL  
SEC. 18, T. 17 S., R. 29 E., EDDY COUNTY, NM

PAGE 1

I. Plan is to drill a 9700' deep SWD; Canyon (96184) saltwater disposal well. Disposal will be from 9520' to 9700' in the Canyon. Well is on NMSLO surface and minerals. See Exhibit A for a USGS map and C-102 form.

II. Operator: Longfellow Energy, LP (OGRID 372210)  
Operator phone number: (972) 590-9900  
Operator address: 16803 North Dallas Parkway, Addison TX 75001  
Contact for Application: Brian Wood (Permits West, Inc.)  
Phone: (505) 466-8120

III. A. (1) Lease: NMSLO lease B0-6846-0003  
Lease Size: 440.00 acres  
Closest Lease Line: 360'  
Lease: N2SE4 Section 18, T. 17 S., R. 29 E. et al

A. (2) Surface casing (13.375", 48#, H-40, LT&C) will be set at 360' in a 17.5" hole and cemented to GL with 401 sacks (100% excess).

Intermediate casing (9.625", 36#, J-55, LT&C) will be set at 2590' in a 12.25" hole and cemented to GL with 1015 sacks (100% excess).

Production casing (7", 26#, L-80, BT&C) will be set at 9700' in an 8.75" hole and cemented to GL with 1210 sacks (30% excess). DV tool will be set at  $\approx$ 7000'. Bottom 320' of casing will be chrome lined.

A. (3) IPC tubing (3.5", 9.3#, J-55, BT&C) will be set @  $\approx$ 9470'. (Disposal interval will be 9520' - 9700' TVD.)

A. (4) A 7" ASI-X packer will be set @  $\approx$ 9470' (or in any event,  $\leq$ 100' above the top perforation (9520')).



LONGFELLOW ENERGY, LP  
OZZY STATE 18 SWD 1  
2280' FSL & 1972' FEL  
SEC. 18, T. 17 S., R. 29 E., EDDY COUNTY, NM

PAGE 2

- B. (1) Disposal zone will be carbonates in the SWD; Canyon (NMOCD pool 96184). Estimated fracture gradient is  $\approx 0.75$  psi per foot.
- B. (2) Disposal interval (9520' to 9700') will be perforated.
- B. (3) This will be a new well drilled as a SWD well.
- B. (4) No perforated intervals are in the well.
- B. (5) Next higher oil or gas zone in the area of review is the Blinebry. Blinebry bottom is at  $\approx 4990'$ , or  $\approx 4523'$  above the Canyon. Morrow is the only producing oil or gas zone in the area of review below the Canyon. Morrow top is at  $\approx 10,186'$ , or  $\approx 339'$  below the bottom of the Canyon. Closest Canyon producer (30-015-44420) is  $\approx 5\frac{1}{2}$  miles east. Closest SWD; Canyon well (Longfellow's 30-015-29260) is 2.29 miles northeast. Closest SWD; Cisco-Canyon well (30-015-32216) is 1.46 miles northwest in H-12-17s-28e.

IV. This is not an expansion of an existing injection project. It is disposal only.

V. Exhibit B shows and tabulates 30 wells (29 producers + 1 P&A) within a half-mile radius. Four of the 30 wells penetrate the Canyon, all are active gas wells. Exhibit C shows 649 existing wells (526 oil or gas + 107 P&A + 15 water injectors or disposers + 1 water) within a 2-mile radius.

Exhibit D maps and tabulates all well operators (regardless of depth), leases, and lessors (only NMSLO & BLM) within a half-mile radius. Exhibit E shows all leases (only NMSLO & BLM) within a 2-mile radius.

VI. Four of the 30 wells within a half-mile penetrated the Canyon (9513' - 9847'). All four (Exhibit F) are active gas or oil wells.

LONGFELLOW ENERGY, LP  
OZZY STATE 18 SWD 1  
2280' FSL & 1972' FEL  
SEC. 18, T. 17 S., R. 29 E., EDDY COUNTY, NM

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- VII. 1. Average injection rate will be  $\approx 15,000$  bwpd.  
Maximum injection rate will be 20,000 bwpd.
2. System will be closed and open.
3. Average injection pressure will be  $\approx 1500$  psi. Maximum injection pressure will be 1904 psi ( $= 0.2$  psi/ft  $\times$  9520' (highest perforation)).
4. Water source will be produced water from Permian Basin wells. Exhibit G tabulates T. 17 S., R. 28 & 29 E. produced water analyses from New Mexico Produced Water Quality Database v.2. No compatibility problems have been reported from the closest (2.29 miles northeast) SWD; Canyon well (30-015-29260). A minimum 13,698,972 barrels have been disposed to date in 20 years of operation.
5. Canyon has not been found productive of oil and gas within a mile. Sample (Exhibit H) from a Canyon; SWD well (30-015-22146) well 11 miles southwest in N-7-19s-28e showed chlorides at 32,000 mg/l.

VIII. The Canyon is a dolomite and is an estimated 335' thick in this well. Closest possible underground source of drinking water above the proposed disposal interval are the red beds from GL to  $\approx 250'$ . Deepest water well within 2-miles is 140'. The  $>1.5$ -mile thick interval between the bottom of the red beds and the top of the Canyon include multiple layers of shale, salt, and anhydrite.

State Engineer records (Exhibit I) show the only water well within 2-miles is 1.69 miles northwest in A-14-17s-28e. It was sampled (Exhibit I) January 7, 2020. Ozzy State 18 SWD 1 is 14 miles northwest of the Capitan and 16 miles southwest of the Ogallala.

No underground source of drinking water is below the proposed disposal zone. Produced water is currently being injected in 47 wells (Abo, Glorieta, Grayburg, Queen, San Andres, Seven Rivers, and Yeso) and disposed in 18 wells (Canyon, Cisco, Glorieta, Penn, Upper Penn, Strawn, and Yeso) within 17s-29e.

LONGFELLOW ENERGY, LP  
OZZY STATE 18 SWD 1  
2280' FSL & 1972' FEL  
SEC. 18, T. 17 S., R. 29 E., EDDY COUNTY, NM

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Formation tops are:

Quaternary = 0'  
Rustler = 150'  
Salado = 375'  
Base Salt = 690'  
Yates = 816'  
Seven Rivers = 1073'  
Queen = 1650'  
Penrose = 1907'  
Grayburg = 2071'  
San Andres = 2382'  
Glorieta = 3844'  
Yeso = 3903'  
Tubb = 5337'  
Abo = 5401'  
Wolfcamp = 7080'  
Cisco = 8740'  
Canyon 9513'  
*Proposed Disposal Zone = 9520' - 9700'*  
TD: 9700'  
Strawn = 9848'

- IX. The well will be stimulated with acid to clean out scale or fill.
- X. CBL will be run if cement does not circulate to surface on the long string.
- XI. No water well is within a mile. A water well 1.69 miles northwest was sampled (Exhibit I) on January 7, 2020.



LONGFELLOW ENERGY, LP  
OZZY STATE 18 SWD 1  
2280' FSL & 1972' FEL  
SEC. 18, T. 17 S., R. 29 E., EDDY COUNTY, NM

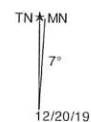
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XII. Longfellow Energy, LP is not aware of any geologic or engineering data (Exhibit J) that may indicate the Canyon is in hydrologic connection with any underground source of water. Twelve SWD; Canyon wells are active in New Mexico.

XIII. Legal ad (Exhibit K) was published in the Artesia newspaper on July ??, 2020. Notice (this application) is being sent (Exhibit L) to the surface owner (NMSLO), lessors, lessees of record, operating right holders, and well operators within a half-mile.



EXHIBIT A





## 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 &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

EXHIBIT A

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-</b>	<sup>2</sup> Pool Code <b>96184</b>	<sup>3</sup> Pool Name <b>SWD; CANYON</b>
<sup>4</sup> Property Code	<sup>5</sup> Property Name <b>OZZY STATE 18 SWD</b>	<sup>6</sup> Well Number <b>1</b>
<sup>7</sup> OGRID No. <b>372210</b>	<sup>8</sup> Operator Name <b>LONGFELLOW ENERGY, LP</b>	<sup>9</sup> Elevation <b>3654.0</b>

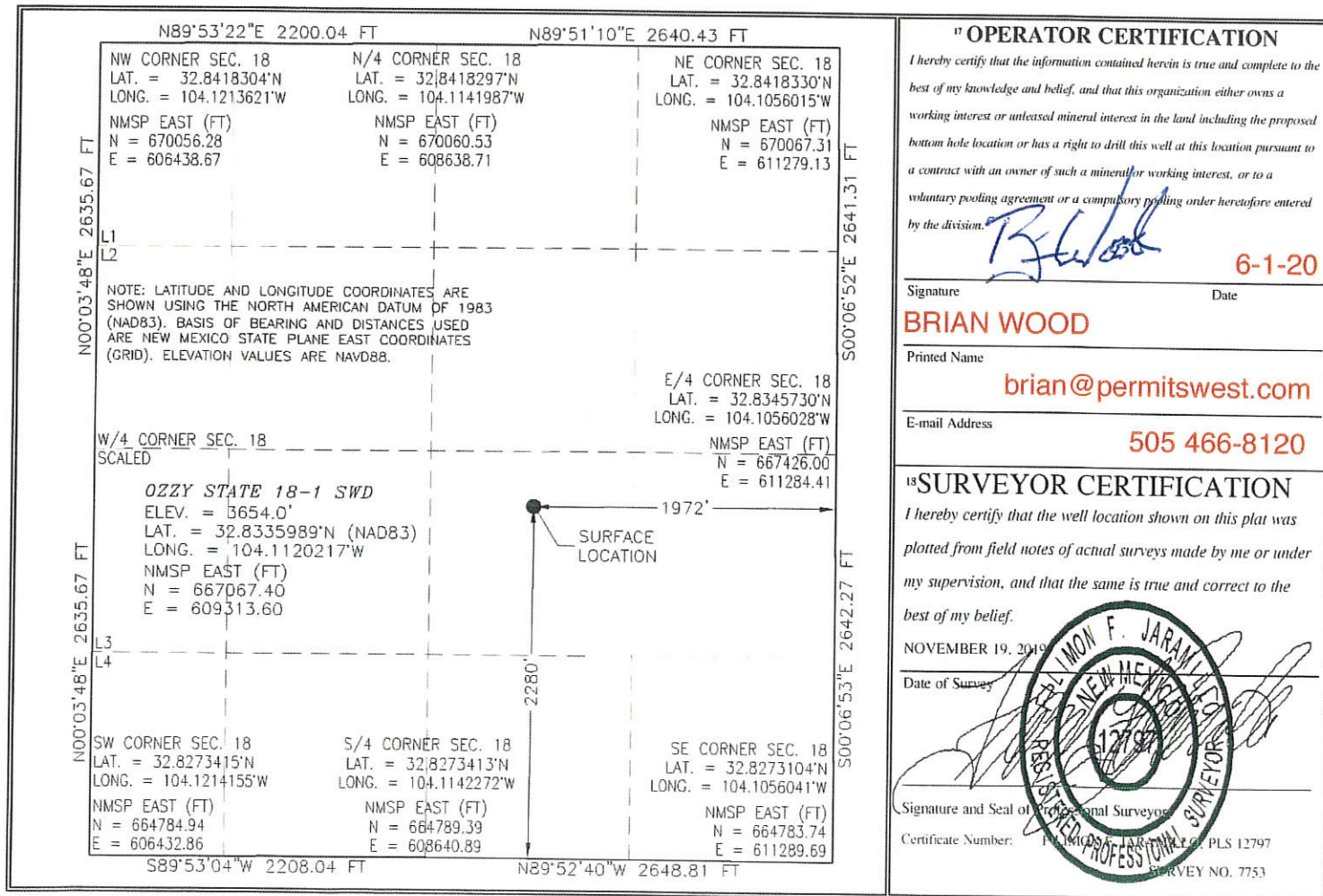
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>J</b>	<b>18</b>	<b>17 S</b>	<b>29 E</b>		<b>2280</b>	<b>SOUTH</b>	<b>1972</b>	<b>EAST</b>	<b>EDDY</b>

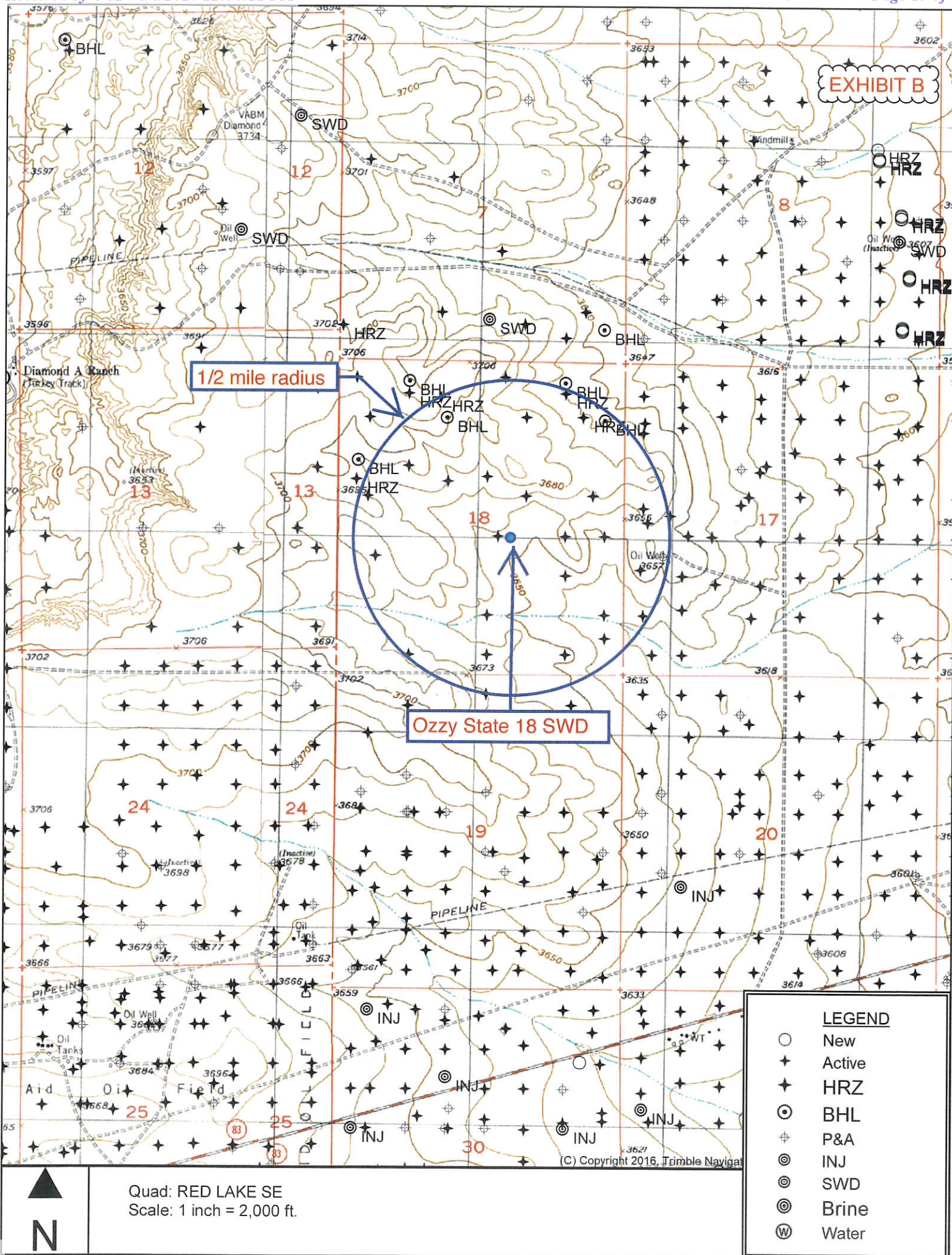
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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









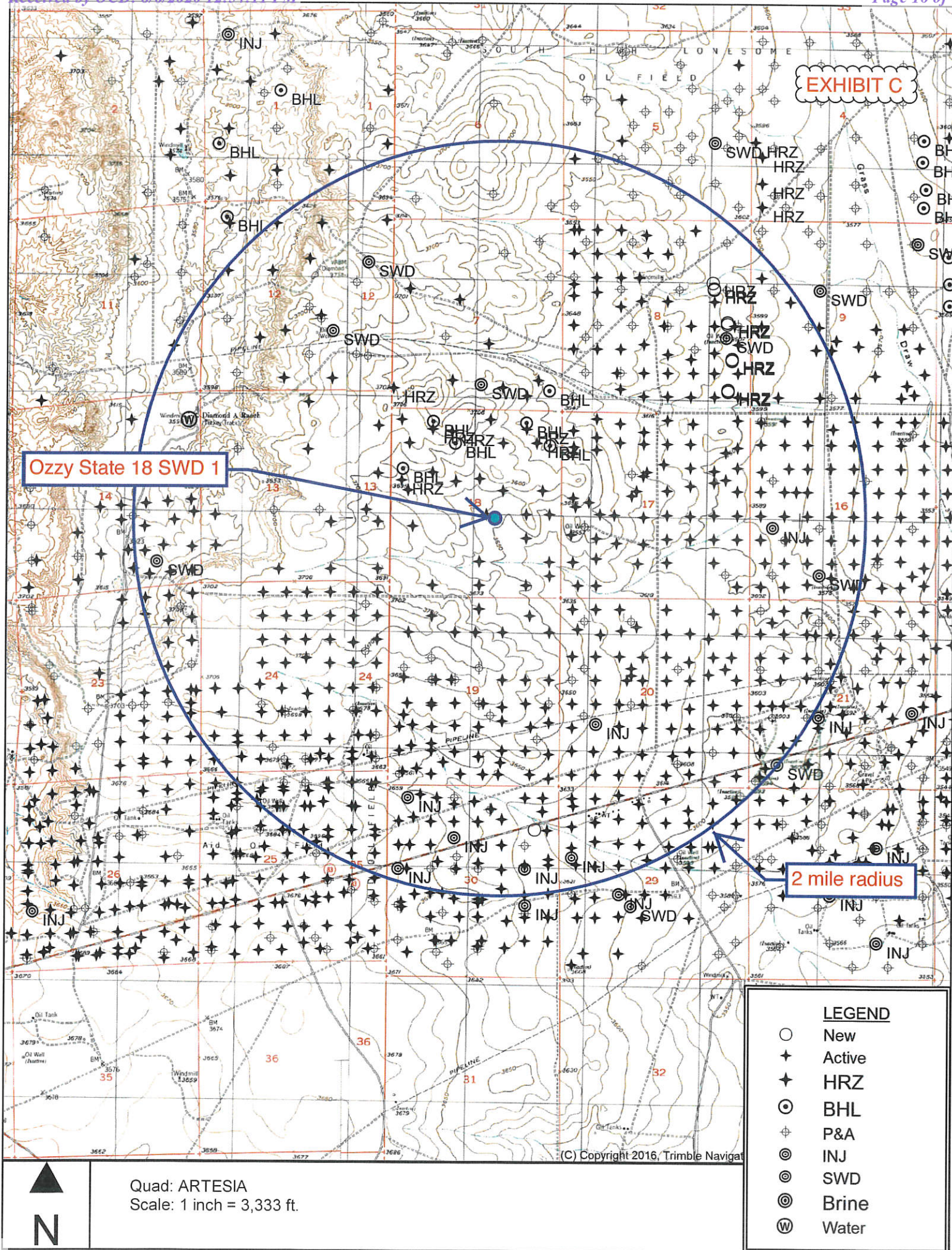
## SORTED BY DISTANCE FROM OZZY STATE 18 SWD 1

API	OPERATOR	WELL	STATUS	UNIT- SECTION T17S R29E	TVD	ZONE @ TD	FEET FROM OZZY STATE 18 SWD 1
3001533771	Longfellow	Empire 18 State 008	O	J-18	4500	Yeso	184
3001531661	Longfellow	Phillips 18 Federal 006	O	G-18	4500	Yeso	782
3001533769	Longfellow	Empire 18 State 007	O	I-18	4500	Yeso	969
3001523209	ConocoPhillips	Green B Federal 010	G	G-18	10720	Morrow	1110
3001530692	Mewbourne	Empire 18 State Com 001	G	I-18	10799	Morrow	1146
3001523747	Southwest Royalties	Green B Federal 012	O	O-18	10740	Morrow	1321
3001539056	Spur	Pere Marquette 18 Federal 011	O	F-18	4674	Yeso	1395
3001531660	Longfellow	Phillips 18 Federal 002	O	H-18	4500	Yeso	1601
3001536735	Longfellow	Empire 18 State 010	O	I-18	4702	Yeso	1632
3001531458	Longfellow	Empire 18 Federal 004	O	O-18	4305	Yeso	1964
3001539052	Spur	Pere Marquette 18 Federal 006	O	B-18	5268	Tubb	2063
3001533773	Longfellow	Empire 18 State 006	O	P-18	4500	Yeso	2070
3001538998	Spur	Pere Marquette 18 Federal 010	O	F-18	5282	Tubb	2073
3001531353	Longfellow	Empire 18 State 003	O	P-18	4486	Yeso	2162
3001531399	Mewbourne	Empire 18 Federal Com 002	G	L-18	10800	Barnett	2243
3001540201	Spur	Folk Federal 040	O	L-17	5017	Yeso	2303
3001536699	Longfellow	Empire 18 State 009	O	P-18	5010	Yeso	2330
3001539273	Spur	Folk Federal 025	O	E-17	5502	Yeso	2352

## SORTED BY DISTANCE FROM OZZY STATE 18 SWD 1

API	OPERATOR	WELL	STATUS	UNIT- SECTION T17S R29E	TVD	ZONE @ TD	FEET FROM OZZY STATE 18 SWD 1
3001537413	Spur	Folk Federal 041	O	L-17	5476	Tubb	2381
3001539051	Spur	Pere Marquette 18 Federal 005H	O	A-18	4850	Yeso	2397
3001539059	Spur	Pere Marquette 18 Federal 012	O	E-18	5242	Tubb	2463
3001531449	Longfellow	Empire 18 Federal 005	O	N-18	4305	Yeso	2544
3001539032	Spur	Pere Marquette 18 Federal 004H	O	A-18	4851	Yeso	2615
3001531448	Longfellow	Phillips 19 Federal 007	O	B-19	4500	Yeso	2617
3001539053	Spur	Pere Marquette 18 Federal 007H	O	C-18	4830	Yeso	2622
3001538088	Spur	Folk State 003	O	M-17	5115	Blindbry	2625
3001503000	Marbob	Folk Fed 001	P&A	L-17	2463	San Andres	2642
3001539031	Spur	Pere Marquette 18 Federal 003	O	B-18	4850	Yeso	2701









## New Mexico State Land Office

## Oil, Gas, and Minerals Leases and Wells

## Legend

- Townships
- Sections
- Subdivisions

EXHIBIT D

## Active Wells

- Water Storage
- Miscellaneous
- ▲ Salt Water Disposal
- ↗ Injection
- ☼ Carbon Dioxide
- ☼ Gas
- Oil

## Inactive Wells

- ⊕ Plugged / Dry / Abandoned
- Cancelled / Not Drilled
- Highway Mileposts

## Detailed Roads

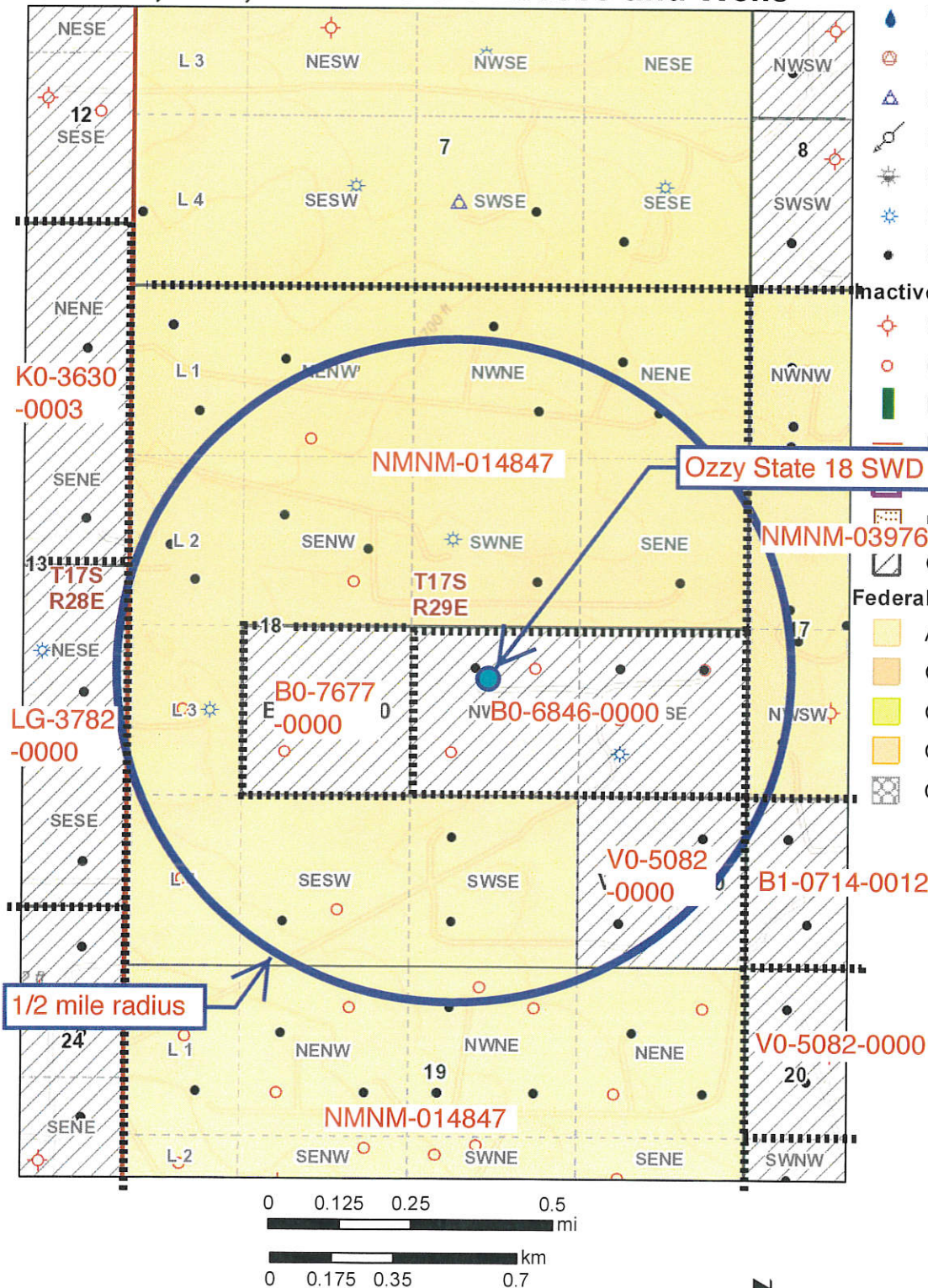
## Unit Agreement Boundaries

## Participating Areas in Units

## Oil and Gas Leases

## Federal Minerals Ownership

- All Minerals
- Coal Only
- Oil and Gas Only
- Oil, Gas and Coal Only
- Other Minerals



## Disclaimer:

The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.





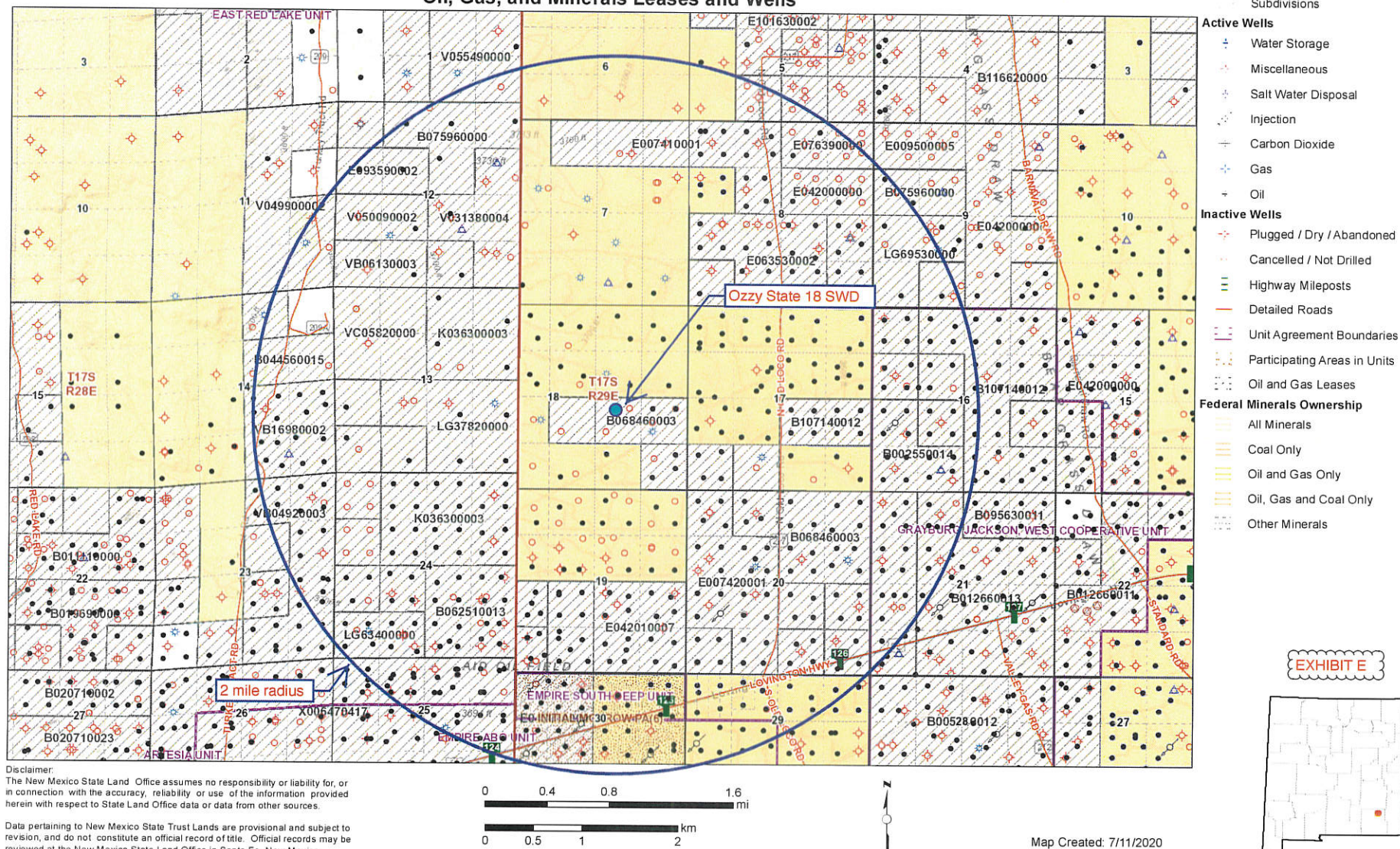
## OZZY STATE 18 SWD 1 AREA OF REVIEW LEASES

Aliquot Parts in Area of Review	Lessor	Lease	Lessee of Record	Well Operators (none Canyon)
T. 17 S., R. 28 E.				
SENE Sec. 13	NMSLO	K0-3630-0003	Fasken	Longfellow
E2SE4 Sec. 13	NMSLO	LG-3782-0000	MRC Delaware	Longfellow, Matador
T. 17 S., R. 29 E.				
SWNW & NWSW Sec. 17	BLM	NMNM-0397623	SEP Permian	ConocoPhillips, Spur
SWSW Sec. 17	NMSLO	B1-0714-0012	COG	ConocoPhillips, Spur
NE4, E2NW4, Lots 1-4, SESW, & SWSE Sec. 18	BLM	NMNM-014847	ConocoPhillips	ConocoPhillips, Longfellow, Mewbourne, Southwest Royalties, Spur
N2SE4 Sec. 18	NMSLO	B0-6846-0000	Longfellow	Longfellow, Mewbourne
NESW Sec. 18	NMSLO	B0-7677-0000	ConocoPhillips	Mewbourne
N2NE4 & NENW Sec. 19	BLM	NMNM-014847	ConocoPhillips	Longfellow





## Oil, Gas, and Minerals Leases and Wells



Map Created: 7/11/2020



Wells sorted by distance from Ozzy St 18 SWD 1

WELL	SPUD	TVD	ZONE @ TD	CURRENT STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
Green B Federal 010	4/23/80	10720	Morrow	G	17.5	13.375	328	325 sx	Surface	Circ
3001523209					11	8.625	2646	1325 sx	Surface	Circ
G-18-17S-29E					7.875	5.5	10720	700 sx	No report	No report
Empire 18 State Com 001	12/7/99	10799	Morrow	G	17.5	13.375	435	580 sx	Surface	Circ
3001530692					12.25	8.625	2617	1810 sx	Surface	Circ 85 sx
I-18-17S-29E					7.875	5.5	10799	1800 sx	2450	Estimated
Green B Federal 012	11/18/81	10740	Morrow	O	17.5	13.375	460	500 sx	Surface	Circ 75 sx
3001523747					11	8.625	2615	700 sx	Surface	Circ
O-18-17S-29E					7.875	5.5	10740	1300 sx	4400	CBL

Wells sorted by distance from Ozzy St 18 SWD 1

WELL	SPUD	TVD	ZONE @ TD	CURRENT STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
Empire 18 Federal Com 002	12/11/00	10800	Barnett	G	17.5	13.375	408	360 sx	Surface	Circ 50 sx
3001531399					12.25	8.625	2630	1150 sx	Surface	Circ 125 sx
L-18-17S-29E					7.875	5.5	10800	1760 sx	2000	Estimated



## PRODUCED WATER ANALYSES (in mg/l) T. 17 S., R. 28 and 29 E.

API	Section	Township	Range	Formation	TDS	Chloride	Bicarbonate	Sulfate
3001501583	27	17S	28E	Abo	224062	135900	378	699
3001501673	32	17S	28E	Abo	34958	19380	2217	1980
3001503083	25	17S	29E	Abo	59305	28980	1677	6934
3001503083	25	17S	29E	Abo	65091	38030	995	2069
3001503183	29	17S	29E	Abo	29400	13700	2520	2800
3001501595	28	17S	28E	Artesia	237482	147300	46	1044
3001501595	28	17S	28E	Artesia	230189	143300	35	925
3001501595	28	17S	28E	Artesia	217219	133800	137	1030
3001501595	28	17S	28E	Artesia	241926	149300	35	1162
3001501595	28	17S	28E	Artesia	30400	12800	2320	4500
3001501595	28	17S	28E	Artesia	222174	137000	109	922
3001501652	31	17S	28E	Artesia	187566	109300	575	4910
3001530889	32	17S	28E	Artesia	163842	111692	836	44
3001530889	32	17S	28E	Artesia	97568	61161	245	2111
3001530299	33	17S	28E	Artesia	194617	129205	674	4405
3001502886	4	17S	29E	Artesia	38560	21670	668	2157
3001502891	4	17S	29E	Artesia	227185	140700	47	900
3001502912	7	17S	29E	Artesia	267895	166300	47	625
3001502996	16	17S	29E	Artesia	102782	57400	450	5600
3001502996	16	17S	29E	Artesia	120438	71800	989	653
3001502996	16	17S	29E	Artesia	1751	799	200	210
3001502996	16	17S	29E	Artesia	138560	75600	1200	9000
3001503019	21	17S	29E	Artesia	237424			
3001503019	21	17S	29E	Artesia	68550	39100	850	2500
3001503019	21	17S	29E	Artesia	69875	41200	485	1800
3001503019	21	17S	29E	Artesia	132353	78840	332	2628
3001503019	21	17S	29E	Artesia	37260	17200	1610	4800
3001503042	22	17S	29E	Artesia	178711	104425	402	4600
3001503034	22	17S	29E	Artesia	56179	31824	716	2350
3001503042	22	17S	29E	Artesia	146796	88400	69	2030
3001503170	28	17S	29E	Artesia	195904	129855	587	4825
3001531125	28	17S	29E	Artesia	240561	176450	91	1054
3001531125	28	17S	29E	Artesia	174045	120583	433	2087
3001503172	28	17S	29E	Artesia	29210	12500	2370	3950
3001503172	28	17S	29E	Artesia	29961	13360	1387	4284
3001503196	33	17S	29E	Artesia	277375	172900	194	1384
3001530334	33	17S	28E	Glorieta/Yeso	206471	137940	504	4742
3001502866	2	17S	29E	Grayburg/San Andres	1406	780	10	550
3001502873	3	17S	29E	Grayburg/San Andres	109000	63070	339	3538

## PRODUCED WATER ANALYSES (in mg/l) T. 17 S., R. 28 and 29 E.

API	Section	Township	Range	Formation	TDS	Chloride	Bicarbonate	Sulfate
3001521279	31	17S	29E	Morrow	35148	19800	1510	450
3001521279	31	17S	29E	Morrow	33627	19300	900	540
3001502933	9	17S	29E	Permo-Penn	310744	192950	179	1259
3001537329	5	17S	28E	Wolfcamp	92636	54800	207	0
3001537429	5	17S	28E	Wolfcamp	84981	50400	171	0
3001538084	5	17S	28E	Wolfcamp	84923	49800	635	0
3001537429	5	17S	28E	Wolfcamp	91974	55168	439	0
3001538084	5	17S	28E	Wolfcamp	93671	54565	427	0
3001538084	5	17S	28E	Wolfcamp	67849	39804	98	2172
3001530915	19	17S	29E	Yeso	192637	130436	822	2724
3001530916	19	17S	29E	Yeso	212361	142111	945	4613
3001530944	19	17S	29E	Yeso	215197	144157	409	4785
3001530917	19	17S	29E	Yeso	213384	142829	448	4903
3001530307	29	17S	29E	Yeso	208172	140286	612	3456
3001530451	29	17S	29E	Yeso	182240	121966	933	3445
3001530307	29	17S	29E	Yeso	200501	133638	822	4560
3001530931	29	17S	29E	Yeso	207695	138951	495	4750
3001530305	29	17S	29E	Yeso	207078	137913	660	5163
3001530694	29	17S	29E	Yeso	194357	152244	1112	5958
3001530575	30	17S	29E	Yeso	9557	3819	806	1616
3001530575	30	17S	29E	Yeso	8483	3308	448	1711



## HALLIBURTON DIVISION LABORATORY

## HALLIBURTON SERVICES

## ARTESIA DISTRICT

## LABORATORY REPORT

EXHIBIT H

No. W38-92

TO Mr. Harvey Apple

Date February 14, 1992

Yates Petroleum Corporation

105 South Fourth Street

Artesia, NM 88210

This report is the property of Halliburton Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the express written approval of laboratory management. It may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Services.

Submitted by \_\_\_\_\_ Date Rec. February 14, 1992

Well No. \_\_\_\_\_ State HU #1 from SWD-841  
30-105-22146

Depth \_\_\_\_\_

Formation Upper Penn

Field \_\_\_\_\_ County \_\_\_\_\_ Source Swab

Resistivity ..... \_\_\_\_\_

Specific Gravity .. \_\_\_\_\_

pH ..... 7.5

Calcium ..... 3,643

Magnesium ..... 1,588

Chlorides ..... 32,000

Sulfates ..... 1,500

Bicarbonates ..... 854

Soluble Iron ..... 0

Remarks:

Disposal Zone Formation Water

Respectfully submitted

VII. 5.

Analyst: Eric Jacobson - Operations Engineer

HALLIBURTON SERVICES



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

EXHIBIT I

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

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">RA 12307 POD1</a>		RA	ED	4	2	2	14	17S	28E	580495	3633981	2730	140	58	82

Average Depth to Water: **58 feet**

Minimum Depth: **58 feet**

Maximum Depth: **58 feet**

**Record Count:** 1

**UTM NAD83 Radius Search (in meters):**

**Easting (X):** 583108

**Northing (Y):** 3633188

**Radius:** 3220

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

12/20/19 4:15 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Analytical Report

EXHIBIT I

Lab Order 2001225

Date Reported: 1/16/2020

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Permits West**Client Sample ID:** RA-12307-POD1**Project:** Ozzy State 18 SWD 1**Collection Date:** 1/7/2020 9:30:00 AM**Lab ID:** 2001225-001**Matrix:** AQUEOUS**Received Date:** 1/8/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 1664B</b>							Analyst: <b>KMN</b>
N-Hexane Extractable Material	ND	9.49		mg/L	1	1/15/2020 11:43:00 AM	49757
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	830	50	*	mg/L	100	1/9/2020 8:22:55 PM	R65669
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>JMT</b>
Total Dissolved Solids	3650	20.0	*	mg/L	1	1/13/2020 7:58:00 AM	49723

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Analytical Re

EXHIBIT I

Lab Order 2001225

**Hall Environmental Analysis Laboratory, Inc.**

Date Reported: 1/16/2020

**CLIENT:** Permits West**Client Sample ID:** Trough 32.84964 104.08036**Project:** Ozzy State 18 SWD 1**Collection Date:** 1/7/2020 4:10:00 PM**Lab ID:** 2001225-002**Matrix:** AQUEOUS**Received Date:** 1/8/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 1664B</b>							Analyst: <b>KMN</b>
N-Hexane Extractable Material	ND	9.59		mg/L	1	1/15/2020 11:43:00 AM	49757
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	39	5.0		mg/L	10	1/10/2020 2:21:55 PM	R65713
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>JMT</b>
Total Dissolved Solids	330	20.0		mg/L	1	1/14/2020 12:58:00 PM	49762

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.****EXHIBIT I**

WO#: 2001225

16-Jan-20

**Client:** Permits West**Project:** Ozzy State 18 SWD I

Sample ID: <b>MB-49757</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 1664B</b>								
Client ID: <b>PBW</b>	Batch ID: <b>49757</b>	RunNo: <b>65794</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2259838</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10.0								

Sample ID: <b>LCS-49757</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 1664B</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>49757</b>	RunNo: <b>65794</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2259839</b>	Units: <b>mg/L</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	35.0	10.0	40.00	0	87.5	78	114			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

EXHIBIT I

  
 WO#: 2001225

16-Jan-20

**Client:** Permits West  
**Project:** Ozzy State 18 SWD 1

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R65669</b>	RunNo: <b>65669</b>								
Prep Date:	Analysis Date: <b>1/9/2020</b>	SeqNo: <b>2256403</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R65669</b>	RunNo: <b>65669</b>								
Prep Date:	Analysis Date: <b>1/9/2020</b>	SeqNo: <b>2256404</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.3	90	110			

Sample ID: <b>MB</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBW</b>	Batch ID: <b>R65713</b>	RunNo: <b>65713</b>								
Prep Date:	Analysis Date: <b>1/10/2020</b>	SeqNo: <b>2257113</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID: <b>LCS</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>R65713</b>	RunNo: <b>65713</b>								
Prep Date:	Analysis Date: <b>1/10/2020</b>	SeqNo: <b>2257114</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.3	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit





WO#: 2001225

16-Jan-20

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

**Client:** Permits West  
**Project:** Ozzy State 18 SWD 1

Sample ID: <b>MB-49723</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>49723</b>	RunNo: <b>65715</b>								
Prep Date: <b>1/9/2020</b>	Analysis Date: <b>1/13/2020</b>	SeqNo: <b>2257238</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-49723</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>49723</b>	RunNo: <b>65715</b>								
Prep Date: <b>1/9/2020</b>	Analysis Date: <b>1/13/2020</b>	SeqNo: <b>2257239</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Sample ID: <b>MB-49762</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>PBW</b>	Batch ID: <b>49762</b>	RunNo: <b>65765</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/14/2020</b>	SeqNo: <b>2258758</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID: <b>LCS-49762</b>	SampType: <b>LCS</b>	TestCode: <b>SM2540C MOD: Total Dissolved Solids</b>								
Client ID: <b>LCSW</b>	Batch ID: <b>49762</b>	RunNo: <b>65765</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/14/2020</b>	SeqNo: <b>2258759</b> Units: <b>mg/L</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit



EXHIBIT J

NM Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 8705

July 15, 2020

**Re: Hydrology Statement  
Longfellow Energy L.P.  
Ozzy State 18 SWD No. 1  
Section 18, T. 17S, R. 29E  
Eddy County, New Mexico**

To whom it may concern:

Publicly available geologic and engineering data related to the proposed well have been thoroughly reviewed, and no evidence for open faults or any other hydrologic connection between the proposed Canyon Formation injection zone and any underground sources of drinking water has been found. Please see the attached geologic assessment for additional information.

Sincerely,

Cory Walk  
Geologist



EXHIBIT J

**Geologic Assessment**  
**Longfellow Energy L.P.**  
**Ozzy State 18 SWD No. 1**  
**Section 18, Township 17 South, Range 29 East**  
**Eddy County, New Mexico**

**Cory Walk**



**B.S., M.S.**

**Geologist**

**Permits West Inc.**

**July 15, 2020**



## **General Information**

Longfellow Energy proposes to drill a salt water disposal (SWD) well in the SE 1/4, section 18, T17S, R29E, about 16 miles east of Artesia, NM in the Permian Basin. The proposed injection zone is within the Canyon Formation from 9,520'-9,700' below ground surface. This report assesses any potential concerns relating to the connection between the injection zone and known underground potable water sources.

## **Groundwater Sources**

Quaternary Alluvium acts as the principal aquifer used for potable ground water near the Ozzy State 18 SWD #1 location (Hendrickson and Jones, 1952). Nicholson and Clebsch (1961) state, "Potable ground water is not available below the Permian and Triassic unconformity but, because this boundary is not easily defined, the top of the Rustler anhydrite formation is regarded as the effective lower limit of 'potable' ground water." Around the Ozzy State 18 SWD #1, the Rustler Formation lies at a depth of ~350 feet bgs.

## **Faults and Fractures**

The Geologic Map of New Mexico (2003) shows the nearest fault to the SWD location is found 17 miles to the northwest (Figure 1). A large accumulation of northwest trending Basin and Range style normal faults lie ~65 miles from the proposed water injection well. This fault zone is interpreted to be a southeastern extension of the Rio Grande Rift zone (Muehlberger et al., 1978) and is the only area in which deeply penetrating faults exist throughout the region.

A structure contour map of the Precambrian Basement shows the Ozzy State 18 SWD well is approximately 12 miles to the nearest Precambrian basement fault (Figure 1; Modified from Ruppel et al., 2009). However, Montgomery (1997) shows that these faults remain deep below the surface and do not act as conduits between the Pennsylvanian Canyon Formation and aquifers near the surface (Figure 2).

## **Stratigraphy**

Well data indicates ~9,170 ft of rock separating the top of the injection zone within the Canyon Formation from the previously stated lower limit of potable water at the top of the Rustler anhydrite formation. Within the separating ~9,170 feet of strata include several horizons of impermeable formations including the Rustler anhydrite and Salado halite formations.

## **Concluding Statement**

After examination of publically available geologic and engineering data, there is no evidence of open faults or any other hydrologic connection between the proposed injection zone and any underground sources of drinking water.



EXHIBIT J

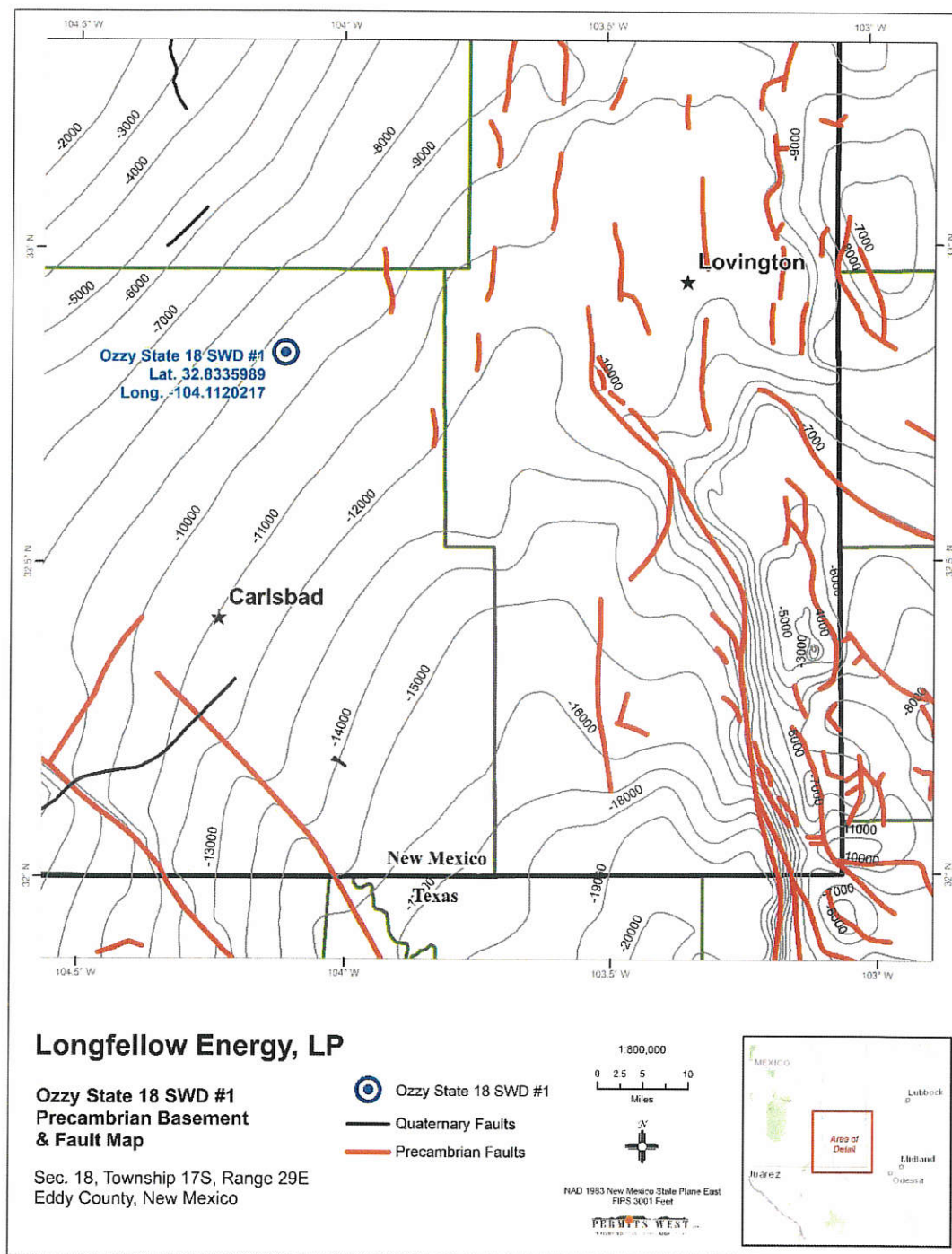


Figure 1. Structural contour map of the Precambrian Basement. Thick red lines represent the locations of deep Precambrian basement faults and black lines represent Quaternary surface faults.

## EXHIBIT J

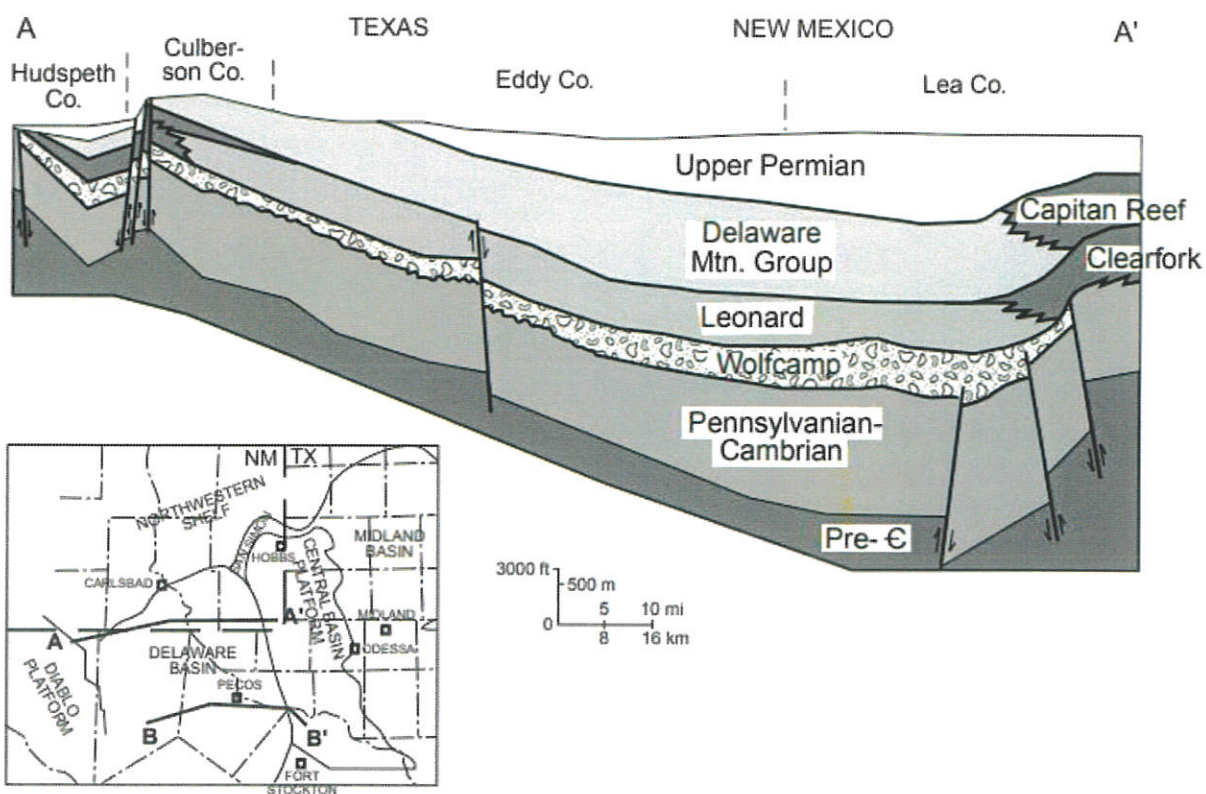


Figure 2. Cross section of the Permian Basin from Montgomery (1997). Notice the basement faults within the basin do not reach the surface and therefore do not act as conduits to near surface aquifers.





## References Cited

- Geologic Map of New Mexico, New Mexico Bureau of Geology and Mineral Resources, 2003, Scale 1:500,000.
- Hendrickson, G. E., and Jones, R. S., 1952, Geology and Ground-Water Resources of Eddy County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Ground-Water Report 3, 179 pp., 6 plates.
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**Affidavit of Publication**

No. 25499

State of New Mexico

Publisher

County of Eddy:

**Danny Scott**

being duly sworn says that he is the

Publisher

of the Artesia Daily Press, a daily newspaper of General  
circulation, published in English at Artesia, said county  
and state, and that the hereto attached

**Legal Ad**

was published in a regular and entire issue of the said  
Artesia Daily Press, a daily newspaper duly qualified  
for that purpose within the meaning of Chapter 167 of  
the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication July 23, 2020

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

23rd day of July 2020



OFFICIAL SEAL

Latisha Romine

NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2023

*Latisha Romine*

Latisha Romine

Notary Public, Eddy County, New Mexico

**Copy of Publication:**

EXHIBIT K

**Legal Notice**

Longfellow Energy, LP will apply to drill the Ozzy State 18 State SWD 1 as a saltwater disposal well. The well will dispose into the Canyon formation from 9,520' to 9,700'. It is staked 8 miles west of Loco Hills and 16 miles east of Artesia, NM at 2280 FSL & 1972 FEL Sec. 18, T. 17 S., R. 29 E., Eddy County, NM. Maximum disposal rate will be 20,000 bwpd. Maximum injection pressure will be 1,904 psi. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting: Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.

Published in the Artesia Daily Press, Artesia, N.M., July 23, 2020 Legal No. 25499.





July 30, 2020

NM State Land Office  
PO Box 1148  
Santa Fe NM 87504

Longfellow Energy, LP is applying (see attached application) to drill the Ozzy State 18 SWD 1 as a saltwater disposal well. As required by NM Oil Conservation Division (NMOCD) rules, I am notifying you of the following proposal. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Ozzy State 18 SWD 1    ID = 9700'

Proposed Disposal Zone: Canyon (9520' - 9700')

Location: 2280' FSL & 1972' FEL Sec. 18, T. 17 S., R. 29 E., Eddy County, NM

Approximate Location: 16 miles of Artesia, NM

Applicant Name: Longfellow Energy, LP    (972) 242-8851

Applicant's Address: 16803 North Dallas Parkway, Addison TX 75001

Submittal Information: Application for a saltwater disposal well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "B. Wood".

Brian Wood



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Sent To **Alice & John Sharp**  
 Street and Apt. No., or PO Box **Northwind Loop**  
**Roswell, NM 88201**  
 City, State, ZIP+4® **Longfellow-Ozzy St 18 SWD 1**

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Sent To **Buckhorn Enterprises**  
 Street and Apt. No., or PO Box **201 W Runyan**  
**Artesia, NM 88210**  
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Sent To **ConocoPhillips c/o Lakeiva Noel**  
 Street and Apt. No., or PO Box **Box 2197**  
**Houston, TX 77252**  
 City, State, ZIP+4® **Longfellow-Ozzy St 18 SWD 1**

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Sent To **Billy W Chase**  
 Street and Apt. No., or PO Box **Box 515**  
**Artesia, NM 88211**  
 City, State, ZIP+4® **Longfellow-Ozzy St 18 SWD 1**

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Sent To **Chase Oil Corp**  
 Street and Apt. No., or PO Box **Box 1767**  
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Sent To **Deb E Chase**  
 Street and Apt. No., or PO Box **Box Sierra Vista Dr**  
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 Street and Apt. No., or PO Box **Box 600 At Marlenfeld St, Suite 600**  
**Midland, TX 79701**  
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Sent To **Endurance Properties, Inc**  
 Street and Apt. No., or PO Box **Box 15456 Dallas Pkwy, Suite 1050**  
**Addison, TX 75001**  
 City, State, ZIP+4® **Longfellow-Ozzy St 18 SWD 1**

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**Midland, TX 79701**  
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City, State, ZIP+4® **Houston, TX 77210**  
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Sent To **EOG Resources, LLC**  
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Sent To **Gerene D C Crouch**  
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Sent To **Gerene D C Crouch**  
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Sent To **Jim & Patricia Ikard**  
Street and Apt. No., or PO Box **Box 331**  
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Sent To **Karla Chase**  
Street and Apt. No., or PO Box **Box 276**  
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Sent To **Lenna Chase**  
Street and Apt. No., or PO Box **Box 276**  
City, State, ZIP+4® **Artesia, NM 88211**  
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Sent To **Longfellow LH, LLC**  
Street and Apt. No., or PO Box **Box 1803 Dallas Pkwy**  
City, State, ZIP+4® **Addison, TX 75002**  
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Sent To **Mack C Chase Trust & Trustee**  
Street and Apt. No., or PO Box **Box 693**  
City, State, ZIP+4® **Artesia, NM 88211**  
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**P.O. Box 990**  
**Artesia, NM 88211**  
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**800 N. Marlenfeld St, Ste 600**  
**Midland, TX 79701**  
**Longfellow-Ozzy St 18 SWD 1**  
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**1008 South 4th St**  
**Artesia, NM 88210**  
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☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Magnum Hunter Prod. Inc**  
**202 S. Choyenne Ave, Ste 1000**  
**Tulsa, OK 74103**  
**Longfellow-Ozzy St 18 SWD 1**  
 City, State, ZIP+4®  
 PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Magnum Hunter c/o Blue Ridge**  
**182 W. John Carpenter Frwy, Ste 300**  
**Irving, TX 75039**  
**Longfellow-Ozzy St 18 SWD 1**  
 City, State, ZIP+4®  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **MRC Delaware Resources, LLC**  
**5400 LBJ Freeway, Ste 1500**  
**Dallas, TX 75240**  
**Longfellow-Ozzy St 18 SWD 1**  
 City, State, ZIP+4®  
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☐ Return Receipt (electronic) \$  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Marilyn Y Chase Trust**  
**PO Box 693**  
**Artesia, NM 88210**  
**Longfellow-Ozzy St 18 SWD 1**  
 City, State, ZIP+4®  
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☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Marilyn Chase**  
**PO Box 693**  
**Artesia, NM 88211**  
**Longfellow-Ozzy St 18 SWD 1**  
 City, State, ZIP+4®  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **NMSLO**  
**PO Box 1148**  
**Santa Fe, NM 87504**  
**Longfellow-Ozzy St 18 SWD 1**  
 City, State, ZIP+4®  
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 Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Magnum Hunter Prod. Inc**  
**800 N. Marlenfeld St, Ste 600**  
**Midland, TX 79701**  
**Longfellow-Ozzy St 18 SWD 1**  
 City, State, ZIP+4®  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Mewbourne Oil Co.**  
**PO Box 5270**  
**Hobbs, NM 88241**  
**Longfellow-Ozzy St 18 SWD 1**  
 City, State, ZIP+4®  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
 Postage \$  
 Total Postage and Fees \$

Sent To **Noble Energy c/o Chevron**  
**891 Deauville Blvd**  
**Midland, TX 79706**  
**Longfellow-Ozzy St 18 SWD 1**  
 City, State, ZIP+4®  
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EXHIBIT L



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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Noble Energy Inc  
1001 Noble Energy Way  
Houston, TX 77070  
City, State, ZIP+4®  
Longfellow-Ozzy St 18 SWD 1

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Patricia Ikard  
PO Box 331  
Carlsbad, NM 88220  
City, State, ZIP+4®  
Longfellow-Ozzy St 18 SWD 1

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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Raven Resources, LLC  
13220 N MacArthur Blvd  
Tulsa, OK 73142  
City, State, ZIP+4®  
Longfellow-Ozzy St 18 SWD 1

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☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Richard L Chase  
PO Box 1767  
Artesia, NM 88211  
City, State, ZIP+4®  
Longfellow-Ozzy St 18 SWD 1

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Richard L Chase  
PO Box 359  
Artesia, NM 88211  
City, State, ZIP+4®  
Longfellow-Ozzy St 18 SWD 1

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Richard L Chase  
805 S Bolton Rd  
Artesia, NM 88210  
City, State, ZIP+4®  
Longfellow-Ozzy St 18 SWD 1

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Robert C Chase  
2809 Sierra Vista Dr  
Artesia, NM 88210  
City, State, ZIP+4®  
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☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Robert C Chase  
PO Box 297  
Artesia, NM 88211  
City, State, ZIP+4®  
Longfellow-Ozzy St 18 SWD 1

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Rover Operating Co  
1304 Preston Rd, Ste 740  
Dallas, TX 75252  
City, State, ZIP+4®  
Longfellow-Ozzy St 18 SWD 1

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Rover Operating Co  
1304 Preston Rd, Ste 300  
Dallas, TX 75252  
City, State, ZIP+4®  
Longfellow-Ozzy St 18 SWD 1

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
Sellers & Fulton, LLC  
PO Box 1176  
Artesia, NM 88211  
City, State, ZIP+4®  
Longfellow-Ozzy St 18 SWD 1

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To  
SEP Permian LLC  
2200 Memorial City Way, Ste 1000  
Houston, TX 77024  
City, State, ZIP+4®  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **Siete Oil and Gas, Corp**  
Street and Apt. No., or P.O. Box 2523  
Roswell, NM 80202  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
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☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **St. Devote LLC**  
Street and Apt. No., or P.O. Box 2475  
Houston, TX 77002  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **Viersen OG Co**  
Street and Apt. No., or P.O. Box 459  
Tulsa, OK 74136  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **Southwest Royalties, Inc.**  
Street and Apt. No., or P.O. Box 53570  
Midland, TX 79710  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **SWN Production Co, LLC**  
Street and Apt. No., or P.O. Box 12359  
Spring, TX 77391  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **Warren Hanson**  
Street and Apt. No., or P.O. Box 8  
Glencoe, NM 88324  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **Southwest Royalties, Inc**  
Street and Apt. No., or P.O. Box 53570  
Midland, TX 79705  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **Thomas & Nona Brewer**  
Street and Apt. No., or P.O. Box 278  
Artesia, NM 88211  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
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Extra Services & Fees (check box, add fee as appropriate)  
☐ Return Receipt (hardcopy) \$  
☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **Westall Oil and Gas, LLC**  
Street and Apt. No., or P.O. Box 4  
Loco Hills, NM 88255  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **Spur Energy Partners, LLC**  
Street and Apt. No., or P.O. Box 980  
Houston, TX 77024  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
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☐ Return Receipt (electronic) \$  
☐ Certified Mail Restricted Delivery \$  
☐ Adult Signature Required \$  
☐ Adult Signature Restricted Delivery \$  
Postage \$  
Total Postage and Fees \$

Sent To: **Tritex Energy A LP**  
Street and Apt. No., or P.O. Box 16456  
Addison, TX 75001  
City, State, ZIP+4® Longfellow-Ozzy St 18 SWD 1  
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

EXHIBIT L