

RECEIVED: <u>7/24/2017</u>	REVIEWER: <u>M Ann</u>	TYPE: <u>WFX</u>	APP NO: <u>2 MAY 17 20556699</u>
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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

<b>Applicant:</b> <u>Apache Corporation</u>	<b>OGRID Number:</b> <u>873</u>
<b>Well Name:</b> <u>West Blinbry Drinkard Unit 183</u>	<b>API:</b> <u>30-025-43780</u>
<b>Pool:</b> <u>Eunice; BLI-TU-DR, North</u>	<b>Pool Code:</b> <u>22900</u>

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

WFX-970

- 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

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

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

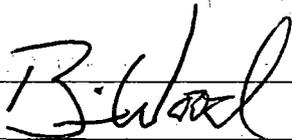
Brian Wood  
 Signature

7-24-17  
 Date

505 466-8120  
 Phone Number

brian@permitswest.com  
 e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: XXX Secondary Recovery \_\_\_\_\_ Pressure Maintenance \_\_\_\_\_ Disposal \_\_\_\_\_ Storage \_\_\_\_\_  
Application qualifies for administrative approval? \_\_\_\_\_ Yes \_\_\_\_\_ No
- II. OPERATOR: APACHE CORPORATION  
ADDRESS: 303 VETERANS AIRPARK LANE, SUITE 3000, MIDLAND, TX 79705  
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: R-12981 et al
- 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. WEST BLINEBRY DRINKARD UNIT  
#183 (30-025-43780)
- VII. Attach data on the proposed operation, including:
- Proposed average and maximum daily rate and volume of fluids to be injected;
  - Whether the system is open or closed;
  - Proposed average and maximum injection pressure;
  - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  - 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 5, 2017  
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: \_\_\_\_\_

### 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**Tubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COATType of Packer: LOCK SET INJECTIONPacker Setting Depth: ≈5696'

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:
- BLINEBRY, TUBB, & DRINKARD

3. Name of Field or Pool (if applicable):
- EUNICE; BLI-TU-DR, NORTH (POOL CODE 22900)

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: GRAYBURG (3714')UNDER: ABO (6857')

APACHE CORPORATION  
WEST BLINEBRY DRINKARD UNIT 183  
730' FSL & 2215' FWL  
SEC. 8, T. 21 S., R. 37 E., LEA COUNTY, NM

PAGE 1

30-025-43780

I. Goal is to complete a recently (spud = 5-7-17) drilled 6961' well as a water injection well to increase oil recovery. The well will inject (5746' - 6849') into the Blinebry, Tubb, and Drinkard, which are part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900).

Well and zones are part of the West Blinebry Drinkard Unit (Unit Number 300341, Case Numbers 14125 and 14126, both Order Number R-12981) that was established in 2008 by Apache. There have been 18 subsequent WFX approvals. This is an active water flood. Forty-six water injectors are active or new in the Unit.

II. Operator: Apache Corporation (OGRID #873)  
Operator phone number: (432) 818-1167  
Operator address: 303 Veterans Airpark Lane, Suite 3000  
Midland, TX 79705  
Contact for Application: Brian Wood (Permits West, Inc.)  
Phone: (505) 466-8120

III. A. (1) Lease: BLM NMNM-090161  
Lease Size: 640 acres (see Exhibit A for maps and C-102)  
Closest Lease Line: 730'  
Lease Area: E2SW4 & SE4 of Section 8, T. 21 S., R. 37 E. et al  
Unit Size: 2,480 acres  
Closest Unit Line: 730'  
Unit Area: T. 21 S., R. 37 E.  
Section 4: Lot 15, S2SW4, & SE4  
Section 8: E2, NENW, & E2SW  
Sections 9 & 16: all  
Section 17: E2 & E2SW4  
Section 21: E2NE4

A. (2) Surface casing (8.625", J-55, 24#) is set at 1348' in an 11" hole and cemented with 575 sacks, of which 121 sacks circulated to GL.

Production casing (5.5", 17#, L-80) is set at 6961' in a 7.875" hole and cemented with 1350 sacks, of which 31 sacks circulated to GL.

Casing was hydraulically pressure tested to 500 psi.

- A. (3) Tubing specifications are 2.375", J-55, 4.7#, and internally plastic coated. Setting depth will be  $\approx$ 5696'. (Disposal interval will be from 5746' to 6849'.)
- A. (4) A lock set injection packer will be set at  $\approx$ 5696' ( $\approx$ 50' above the highest proposed perforation of 5746').
- B. (1) Injection zone will be the Blinebry - Drinkard interval. The interval is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool. Estimated fracture gradient is  $\approx$ 0.56 psi per foot.
- B. (2) Injection interval will be from 5746' to 6849' in a cased hole. See attached C-108 well profile for more perforation information.
- B. (3) Well was drilled as a water injection well.
- B. (4) Well will be perforated from 5746' to 6849' with 2 shots per foot. Shot diameter = 0.40".
- B. (5) Next higher oil or gas zone in the area of review is the Grayburg. Its bottom is at 3951'. Injection will occur in the Blinebry and deeper. Blinebry top is at 5746'.

Next lower oil or gas zone in the area of review is the Abo. Its top is at 6857'. Deepest perforation will be 6849'.

IV. This is not a horizontal or vertical expansion of an existing injection project. The case file for the unit approval (R-12981) includes a discussion of the water flood. There have been 18 subsequent WFX approvals.

APACHE CORPORATION  
 WEST BLINEBRY DRINKARD UNIT 183  
 730' FSL & 2215' FWL  
 SEC. 8, T. 21 S., R. 37 E., LEA COUNTY, NM

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V. Exhibit B shows and tabulates all 43 existing wells (32 oil wells + 6 P&A wells + 4 water injectors + 1 water supply well) within a half-mile radius, regardless of depth. Exhibit C shows all 546 existing wells (403 oil or gas wells + 61 injection or disposal wells + 68 P & A wells + 14 water supply wells) within a two-mile radius.

Exhibit D shows all leases (only BLM and fee) within a half-mile radius. Exhibit E shows all lessors (BLM, fee, and state) within a two-mile radius. Details on the leases within a half-mile are:

Aliquot Parts in Area of Review (T 21 S, R 37 E)	Lessor	Lease	Lessee(s) of Record	Blinebry, Tubb, or Drinkard Operator
NESE Sec. 7	fee	M L Goins	J R Oil	none now, J R in Drinkard until PB
SESE Sec. 7	fee	H T Mattern NCT C	Chevron	none now, Chevron in Drinkard until PB
SWNW Sec. 8	fee	H T Mattern NCT C	Chevron	none now, Chevron in Blinebry until P&A
SENE Sec. 8	fee	H T Mattern NCT C	Chevron	none now, Chevron in Drinkard until PB
SWNE Sec. 8	BLM	NMLC-031741A	Apache, Chevron, ConocoPhillips	Apache
SE4 & E2SW4 Sec. 8	BLM	NMNM-090161	Apache, Chevron	Apache
NWSW Sec. 8	fee	H T Mattern NCT C	Chevron	none
SWSW Sec. 8	fee	H T Mattern NCT C	Chevron	none now, Chevron in Blinebry until P&A
NENE Sec. 17	BLM	NMLC-032096A	Apache, Chevron	Apache

NWNE Sec. 17	fee	Weatherly	Apache	Apache
NENW Sec. 17	fee	Mittie Weatherly	Chevron	none now, Texaco (Chevron) in Drinkard until PB
NWNW Sec. 17	fee	Mittie Weatherly	Chevron	none
SWNW Sec. 17	fee	Mittie Weatherly	Chevron	none now, Chevron in Drinkard until P&A
SENE Sec. 17	fee	Mittie Weatherly	Chevron	none now, Texaco (Chevron) in Blinebry & Drinkard until PB
SWNE Sec. 17	fee	W W Weatherly	Apache	Apache
NENE Sec. 18	fee	H T Mattern NCT C	Chevron	none now, Chevron in Blinebry until P&A

VI. Forty-three existing wells are within a half-mile radius. Twenty-seven of the wells penetrated the Blinebry (5746'). The penetrators include 20 oil wells, 2 P&A wells, 4 water injectors, and 1 water supply well (plugged back from the Drinkard to the San Andres). A table abstracting the well construction details and histories of the penetrators is in Exhibit F. Diagrams of the P&A wells are also in Exhibit F.

- VII. 1. Average injection rate will be  $\approx$ 2500 bwpd.  
 Maximum injection rate will be 3000 bwpd.
2. System will be closed. The well will tie into the existing Unit pipeline system. It consists of a branched injection system with centrifugal injection pumps.

3. Average injection pressure will be  $\approx$ 1100 psi. Maximum injection pressure will be 1120 psi (see item (13) of Order R-12981).
4. Water source will be water pumped from two existing  $\approx$ 4000' deep San Andres water supply wells, plus produced water from Blinebry, Tubb, and Drinkard zones. The source water and produced water are collected in separate skim tanks. The two water streams (source and produced) are commingled in a tank before being piped to the injection wells. A comparison of nearby analyses and San Andres follows. No compatibility problems have reported from the 46,768,543 barrels that have been injected in the unit to date.

	<u>NEDU Injection Pump Discharge</u>	<u>San Andres 919-S</u>
Anion/Cation Ratio	1.0	N/A
Barium	0.1 mg/l	0.38 mg/l
Bicarbonate	671.0 mg/l	562.0 mg/l
Calcium	1,099.0 mg/l	608.0 mg/l
Carbon Dioxide	80.0 ppm	80.0 ppm
Chloride	10,086.0 mg/l	6,200.0 mg/l
Hydrogen Sulfide	90.0 ppm	408.0 ppm
Iron	0.3 mg/l	0.0 mg/l
Magnesium	439.0 mg/l	244.0 mg/l
Manganese	N/A	0.01 mg/l
pH	7.5	6.49
Potassium	115.0 mg/l	N/A
Sodium	5,799.5 mg/l	3,909.0 mg/l
Strontium	28.0 mg/l	19.0 mg/l
Sulfate	2,465.0 mg/l	1,750.0 mg/l
Total Dissolved Solids	20,702.9 mg/l	13,273.0 mg/l

5. There are 121 active or new oil wells in the Unit. It is the goal of the project to increase production.

VIII. The Unit is on the north end of a north-northwest to south-southeast trending anticline. It is part of the Penrose Skelly trend and parallels the west edge of the Central Basin Platform. Dips are 1° to 2°. The injection interval is Leonardian in age, 1103' thick, and consists of tan to dark gray shallow marine carbonates, many of which have been dolomitized. Core filling and replacement anhydrite are common in the limestone. Nodular anhydrite is common in the dolomite. Five per cent porosity cut off is used to determine pay zones. Impermeable shale and carbonates vertically confine the interval.

There are currently 107 Blinebry injectors, 125 Tubb injectors, and 153 Drinkard injectors in the state. The West Blinebry Drinkard Unit shares its east border with Apache's Northeast Drinkard Unit. Three other similar water floods (East Blinebry Drinkard Units, Central Drinkard Unit, and Warren Blinebry Unit) are within a mile of the West Blinebry Drinkard Unit. The Central Drinkard Unit has been under water flood since the 1960s.

Estimated formation depths are:

Quaternary = 0'  
Rustler = 1279'  
Tansill = 2520'  
Yates = 2652'  
Seven Rivers = 2902'  
Queen = 3433'  
Grayburg = 3714'  
San Andres = 3952'  
Glorieta = 5205'  
Paddock = 5282'  
Blinebry = 5746'  
*Injection interval = 5746' - 6849'*  
Tubb = 6239'  
Drinkard = 6581'  
Abo = 6857'  
TVD = 6961'

Office of the State Engineer records (Exhibit G) show one fresh water well (CP 01026 PD1) is within a mile radius. It, and a second well (CP 00447 POD 1)

1.06 miles southwest, were sampled on May 19, 2017. The Ogallala is 1.8 miles northeast.

No existing underground drinking water sources are below the injection interval within a mile radius. (The 8015' deep well shown by the State Engineer (Exhibit G) was an oil well converted to produce water from the San Andres. San Andres perforations were from 4016' - 4941'. The well was P&A in 2011.)

There will be >5,000' of vertical separation and hundreds of feet of salt and anhydrite between the bottom of the only likely underground fresh water source and the top of the injection interval.

Produced water is currently being injected (205 wells) or disposed (8 wells) into the Blinebry-Tubb-Drinkard, San Andres, Grayburg, Queen, Seven Rivers, and Yates within T. 21 S., R. 37 E.

IX. The well will be stimulated with acid to clean out scale or fill.

X. DLL micro guard, spectral gamma dual spaced neutron spectral density, bore hole compensated sonic array, and annular hole volume logs were submitted to NMOCD. Gamma ray and bond logs were run on June 12 and will be submitted to NMOCD.

XI. One fresh water well is within a mile. Analyses from it and a second well just beyond a mile are in Exhibit G.

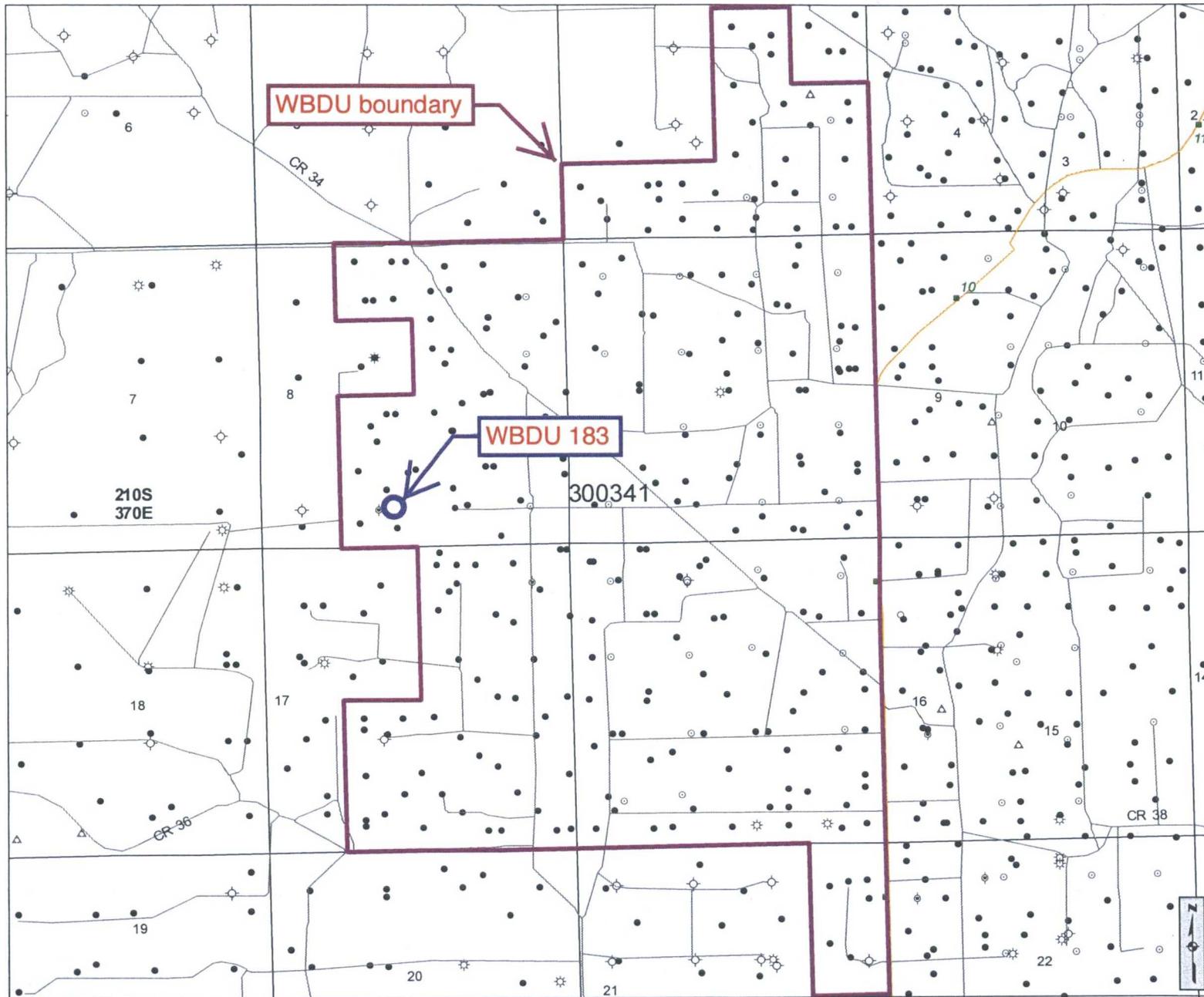
XII. Apache is not aware of any geologic or engineering data that may indicate the injection interval is in hydrologic connection with any underground sources of water. Closest Quaternary faults are  $\approx$ 109 miles southwest (Exhibit H). There are currently 107 Blinebry injectors, 125 Tubb injectors, and 153 Drinkard injectors in the state. Previously approved water flood expansions (WFX-) in the Unit include 854, 857, 913, 921, 922, 923, 924, 948, 952, 954, 955, 958, 959, 960, 962, 964, 965, and 967.

APACHE CORPORATION  
WEST BLINEBRY DRINKARD UNIT 183  
730' FSL & 2215' FWL  
SEC. 8, T. 21 S., R. 37 E., LEA COUNTY, NM

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XIII. A legal ad (see Exhibit I) was published on May 5, 2017. Notice (this application) has been sent (Exhibit J) to the surface owner (Millard Deck Estate), lessor (BLM), offset Blinebry, Tubb, or Drinkard operators (Chevron and J R Oil), lessees (Chevron, ConocoPhillips, and J R Oil), operators of other zones (Chevron, J R Oil, and Lanexco), and operating rights holders (Chevron USA Inc., Chevron USA Prod. Co., ConocoPhillips, Barbara Hannifin, Mark Hannifin, Patrick Hannifin, Robert Hannifin, John H. Hendrix Corp., Lanexco, Robert Lansford, NM Co. Inc., Oxy USA WTP, Penroc Oil Corp., Tommy Phipps, and Six Aeches Co.).



- Cartographic Features**
- County Boundaries
  - County Seats
  - City, Town or Village
  - SLO District Offices
  - SLO District Boundary
  - Hwy Mileposts
  - Interstate
  - NM Hwy
  - Continental Divide
  - US Hwy
  - Local Road
- Federal Minerals Ownership**
- All Minerals
  - Coal Only
  - Oil and Gas Only
  - Oil, Gas and Coal Only
  - Other Minerals
- State Trust Lands**
- Surface Estate
  - Subsurface Estate
  - Surface and Subsurface Estate
- State Leases**
- Oil and Gas Leases
  - Agricultural Leases
  - Commercial Leases
  - Minerals Leases
  - Not Available for Oil and Gas Leasing
  - Oil and Gas Leasing Influenced by Restriction
- Oil and Gas Related Features**
- Oil and Gas Unit Boundary
  - Participating Areas in Units
  - Geologic Regions
  - Volcanic Vents
  - NMOC Order R-111-P Potash Enclave Outline
- NMOC Oil and Gas Wells**
- CO<sub>2</sub>
  - Injection
  - Oil
  - Water
  - Gas
  - Miscellaneous
  - Salt Water Disposal
  - DA or PA

**New Mexico State Land Office  
Oil, Gas and Minerals**

0 0.1 0.2 0.4 0.6 0.8 Miles  
 Universal Transverse Mercator Projection, Zone 13  
 1983 North American Datum

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 here, in State Land Office data layers or any other data layer.  
 Land Office Geographic Information Center  
 logic@slo.state.nm.us

Created On: 5/19/2017 9:07:32 AM

**EXHIBIT A**

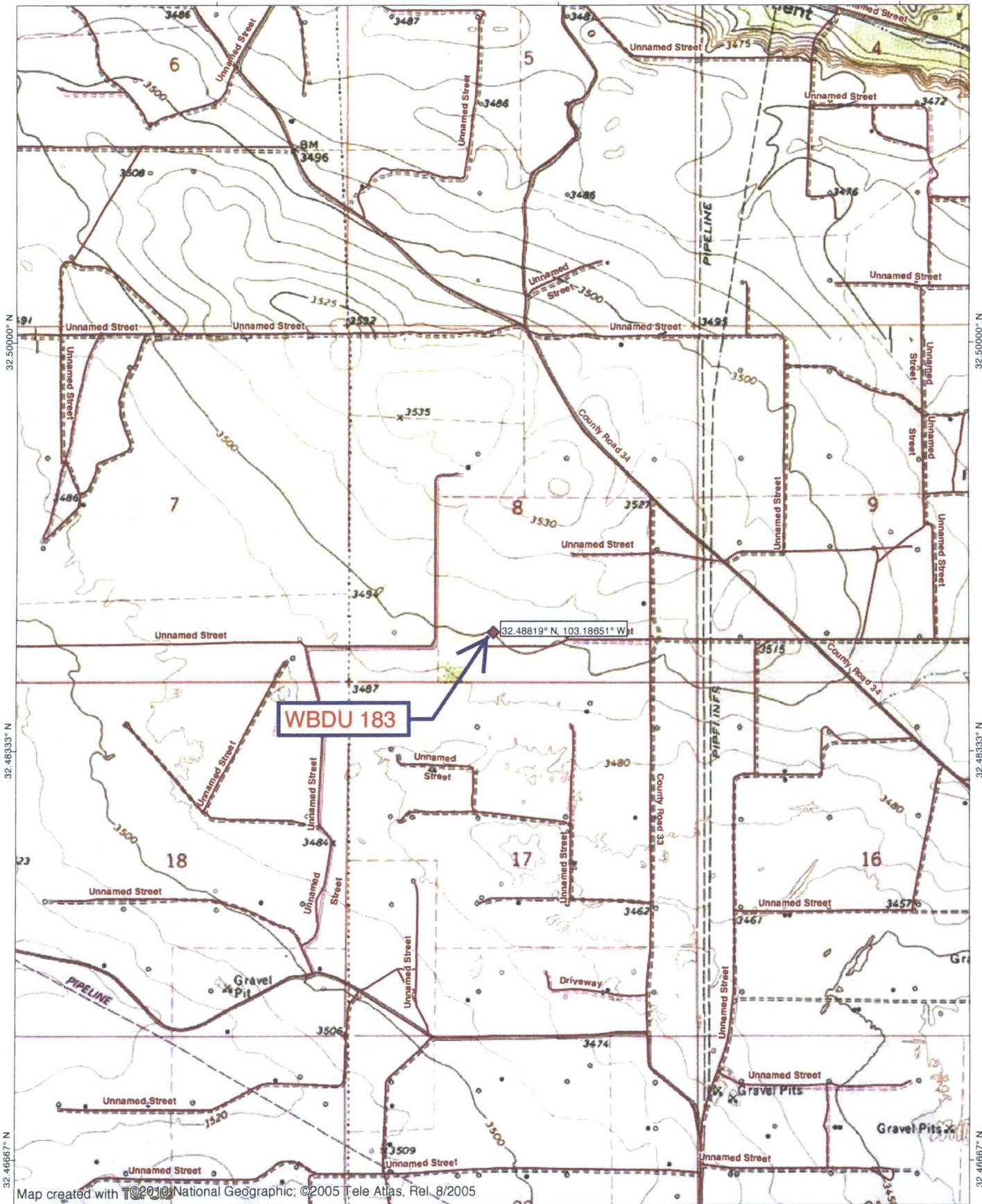


www.nmstatelands.org

103.20000° W

103.18333° W

WGS84 103.16667° W

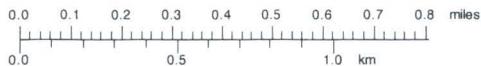


Map created with ©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005

103.20000° W

103.18333° W

WGS84 103.16667° W



**EXHIBIT A**

TN MN

6.5°

05/07/17

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

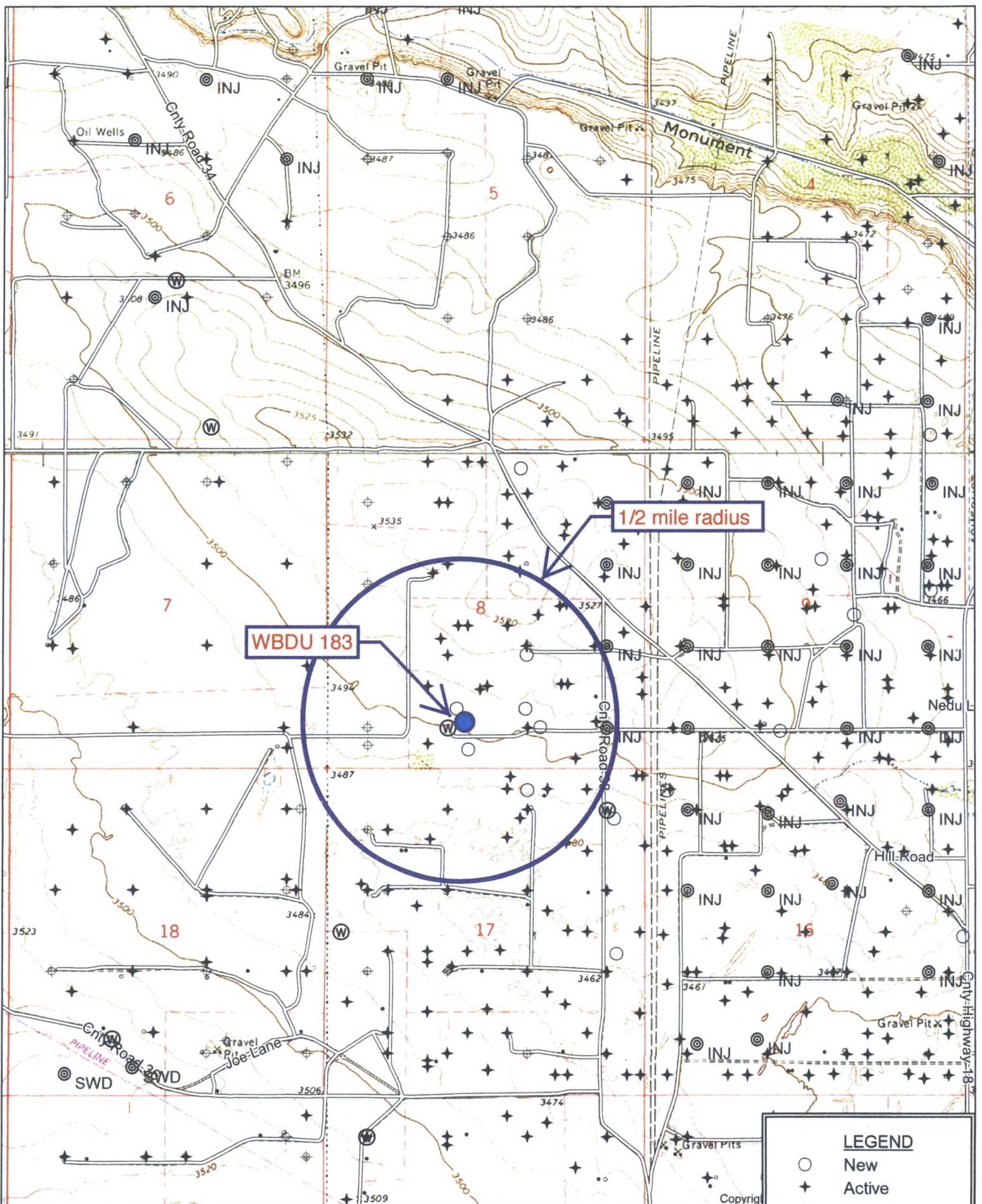
<sup>1</sup> API Number 30-025- <b>47780</b>		<sup>2</sup> Pool Code 22900		<sup>3</sup> Pool Name EUNICE; BLI-TU-DR, NORTH					
<sup>4</sup> Property Code 37346		<sup>5</sup> Property Name WEST BLINEBRY DRINKARD UNIT				<sup>6</sup> Well Number 183			
<sup>7</sup> OGRID NO. 873		<sup>8</sup> Operator Name APACHE CORPORATION				<sup>9</sup> Elevation 3501'			
<sup>10</sup> Surface Location									
UL or lot no. N	Section 8	Township 21S	Range 37E	Lot Idn	Feet from the 730	North/South line SOUTH	Feet From the 2215	East/West line WEST	County LEA
<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 40		<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 interest have been consolidated or a non-standard unit has been approved by the division.

	<p style="text-align: center;"><b>17 OPERATOR CERTIFICATION</b></p> <p><i>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.</i></p> <p style="text-align: right;"><i>Sorina L Flores</i> 1/13/2017</p> <p>Signature _____ Date _____ <b>SORINA L. FLORES</b> Printed Name _____ sorina.flores@apachecorp.com E-mail Address _____</p>
	<p style="text-align: center;"><b>18 SURVEYOR CERTIFICATION</b></p> <p><i>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.</i></p> <p style="text-align: center;"><b>12-06-2018</b></p> <p>Date of Survey _____ Signature and Seal of Professional Surveyor _____ <b>19880</b> Certificate Number</p>

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1611394

EXHIBIT A



**WBDU 183**

**1/2 mile radius**

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊗	SWD
⊙	Water



Quad: EUNICE  
Scale: 1 inch = 2,000 ft.

**EXHIBIT B**

Copyright

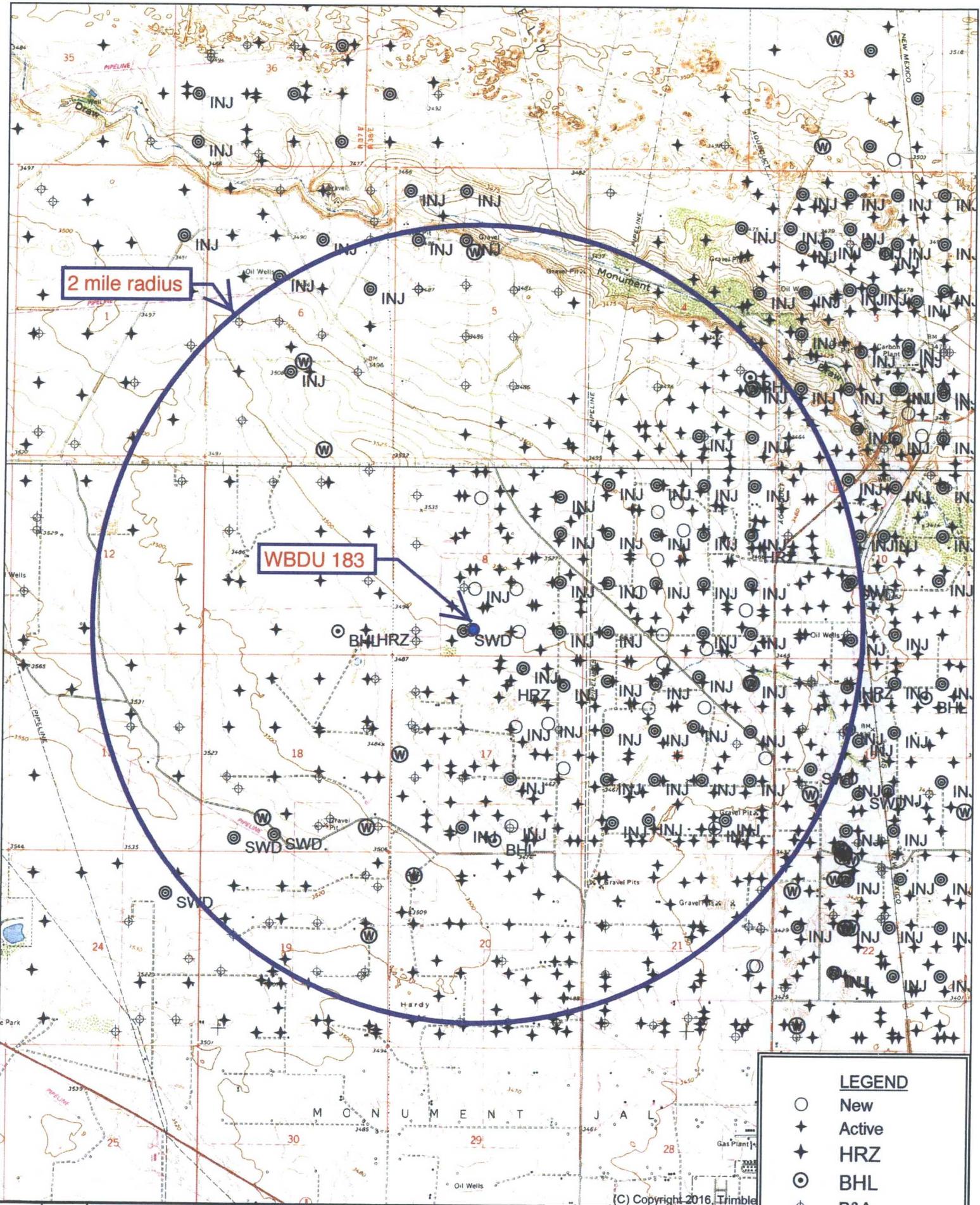
API	WHO	WELL	TYPE WELL	UNIT-SECTION-T21S-R37E	TVD	CURRENT ZONE	FEET FROM WBDU 183
3002526601	Apache	WBDU 043	W	N-8	6825	WSW; San Andres	224
3002537997	Apache	Hawk Federal B 1 051	O	N-8	4405	Penrose Skelly; Grayburg	643
3002540276	Apache	WBDU 135	O	N-8	7125	Eunice; Bli-Tu-Dr, N	647
3002537741	Apache	WBDU 047	O	K-8	6950	Eunice; Bli-Tu-Dr, N	748
3002540273	Apache	WBDU 108	O	K-8	7265	Eunice; Bli-Tu-Dr, N	829
3002506435	Apache	Hawk Federal B 1 012	O	O-8	6722	Penrose Skelly; Grayburg	1087
3002535807	Apache	Hawk Federal B 1 029	P&A	K-8	4200	Penrose Skelly; Grayburg	1112
3002539733	Apache	WBDU 109	O	B-17	7200	Eunice; Bli-Tu-Dr, N	1133
3002542493	Apache	WBDU 185	I	O-8	6945	Eunice; Bli-Tu-Dr, N	1258
3002538377	Apache	W W Weatherly 012	O	B-17	4150	Penrose Skelly; Grayburg	1261
3002526266	Apache	WBDU 044	O	K-8	6936	Eunice; Bli-Tu-Dr, N	1393
3002506649	Chevron	Mittie Weatherly 003	O	C-17	6651	Penrose Skelly; Grayburg	1414
3002524060	Sohio	Alves A 002	P&A	M-8	4446	Penrose Skelly; Grayburg	1538
3002542494	Apache	WBDU 192	I	J-8	6974	Eunice; Bli-Tu-Dr, N	1548
3002525500	Chevron	H T Mattern NCT C 011	P&A	M-8	7125	Wantz; Abo	1578
3002540678	Apache	Hawk Federal B 1 070	O	K-8	7300	Wantz; Abo	1594
3002539511	Apache	Hawk Federal B 1 055	O	K-8	4507	Penrose Skelly; Grayburg	1597
3002535878	Apache	Hawk Federal B 1 022	O	J-8	4215	Penrose Skelly; Grayburg	1632
3002522859	Conoco	Hawk B 1 014	P&A	J-8	6836	Eunice; Bli-Tu-Dr, N	1645
3002539407	Apache	WBDU 106	O	J-8	7027	Eunice; Bli-Tu-Dr, N	1746

EXHIBIT B

3002537020	Apache	WBDU 046	O	J-8	7383	Eunice; Bli-Tu-Dr, N	1760
3002540429	Apache	WBDU 144H	O	B-17	6673	Eunice; Bli-Tu-Dr, N	1772
3002523717	Apache	W W Weatherly 005	O	B-17	3875	Penrose Skelly; Grayburg	1773
3002506642	Apache	WBDU 065	I	B-17	6684	Eunice; Bli-Tu-Dr, N	1777
3002536158	Apache	Hawk Federal B 1 032	O	I-8	4200	Penrose Skelly; Grayburg	1864
3002540274	Apache	WBDU 124	O	P-8	7300	Eunice; Bli-Tu-Dr, N	1917
3002537188	Chevron	Mittie Weatherly 008	O	C-17	4326	Penrose Skelly; Grayburg	1944
3002539278	Apache	WBDU 117	O	B-17	7000	Eunice; Bli-Tu-Dr, N	1964
3002535745	Chevron	Mittie Weatherly 007	O	D-17	7600	Penrose Skelly; Grayburg	2105
3002540458	Apache	Hawk Federal B 1 069	O	J-8	7500	Wantz; Abo	2146
3002535795	Apache	Hawk Federal B 1 018	O	P-8	4200	Penrose Skelly; Grayburg	2230
3002537379	Apache	Lockhart A 17 010	O	A-17	4360	Penrose Skelly; Grayburg	2283
3002506651	Chevron	Mittie Weatherly 005	P&A	D-17	3824	Penrose Skelly; Grayburg	2310
3002506433	Apache	WBDU 040	I	P-8	6758	Eunice; Bli-Tu-Dr, N	2364
3002538195	Apache	WBDU 030	O	G-8	7005	Eunice; Bli-Tu-Dr, N	2413
3002525411	Chevron	H T Mattern NCT C 010	O	F-8	7201	Wantz; Abo	2461
3002538493	Apache	Hawk Federal B 1 058	O	J-8	4193	Penrose Skelly; Grayburg	2481
3002535877	Apache	Hawk Federal B 1 021	O	I-8	4212	Penrose Skelly; Grayburg	2527
3002539987	Apache	WBDU 125	O	B-17	6951	Eunice; Bli-Tu-Dr, N	2550
3002506436	Lanexo	Alves B 001	P&A	F-8	3679	Penrose Skelly; Grayburg	2575
3002521621	Apache	WBDU 024	O	G-8	6819	Eunice; Bli-Tu-Dr, N	2575
3002540677	Apache	Hawk A 037	O	G-8	7500	Eunice; Bli-Tu-Dr, N	2601

EXHIBIT B

3002535803	Apache	Hawk A 010	O	G-8	4200	Penrose Skelly; Grayburg	2625
3002527439	JR Oil	M L Goins 004	O	I-7	6974	Eumont; Yates-7 Rivers-Queen (Oil)	2693



2 mile radius

WBDU 183

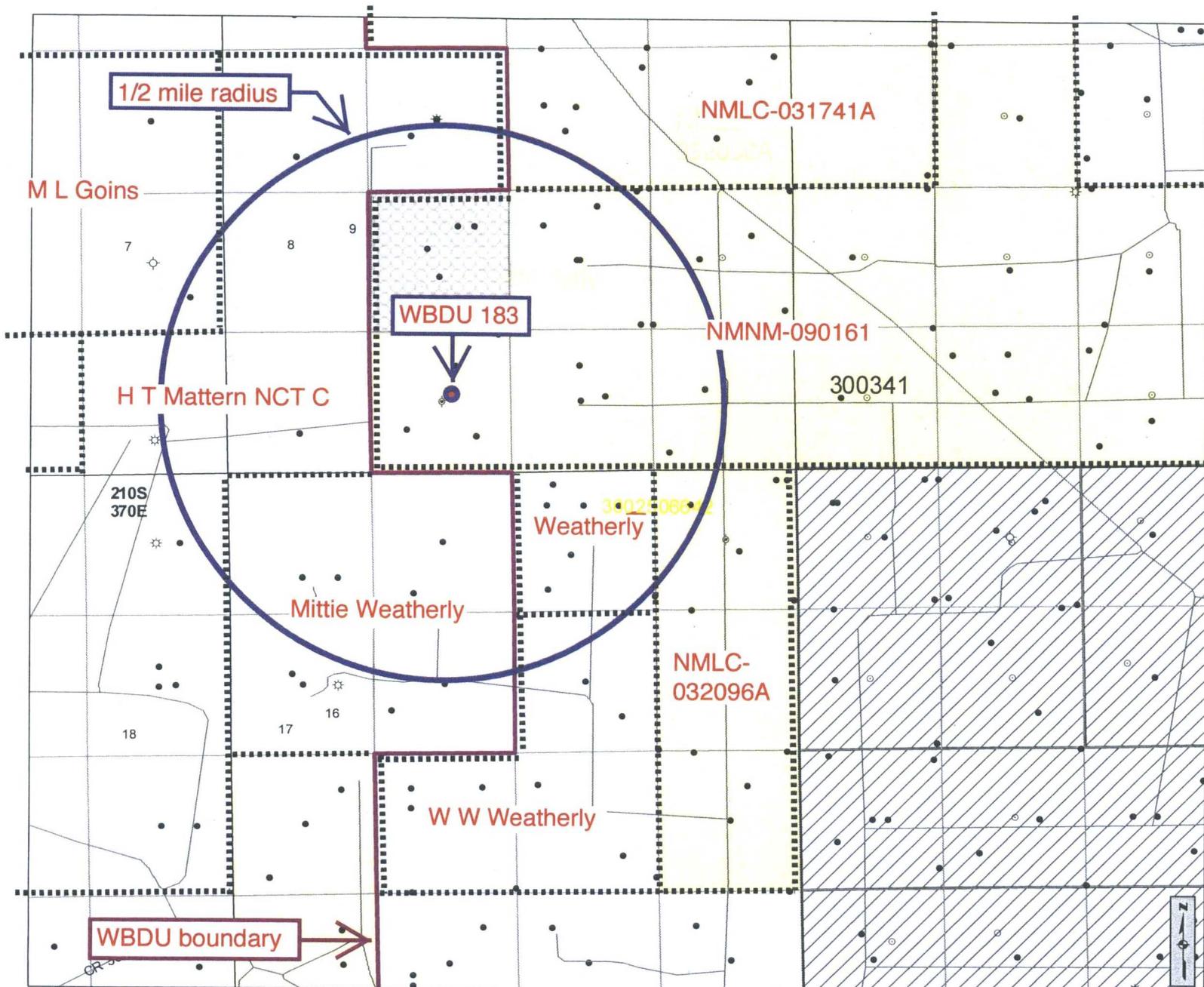
LEGEND	
○	New
+	Active
✦	HRZ
⊙	BHL
⊕	P&A
⊗	INJ
⊙	SWD
⊖	Water



Quad: EUNICE  
Scale: 1 inch = 3,333 ft.

EXHIBIT C

(C) Copyright 2016, Trimble



**Cartographic Features**

- County Boundaries
- County Seats
- City, Town or Village
- SLO District Offices
- SLO District Boundary
- Hwy Mileposts
- Interstate
- NM Hwy
- US Hwy
- Local Road
- Continental Divide

**Federal Minerals Ownership**

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

**State Trust Lands**

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

**State Leases**

- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

**Oil and Gas Related Features**

- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Volcanic Vents
- NMOC Order R-111-P
- Potash Enclave Outline

**NMOC Oil and Gas Wells**

- CO<sub>2</sub>
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA

**New Mexico State Land Office  
Oil, Gas and Minerals**



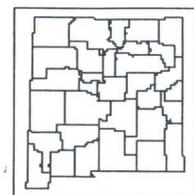
Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

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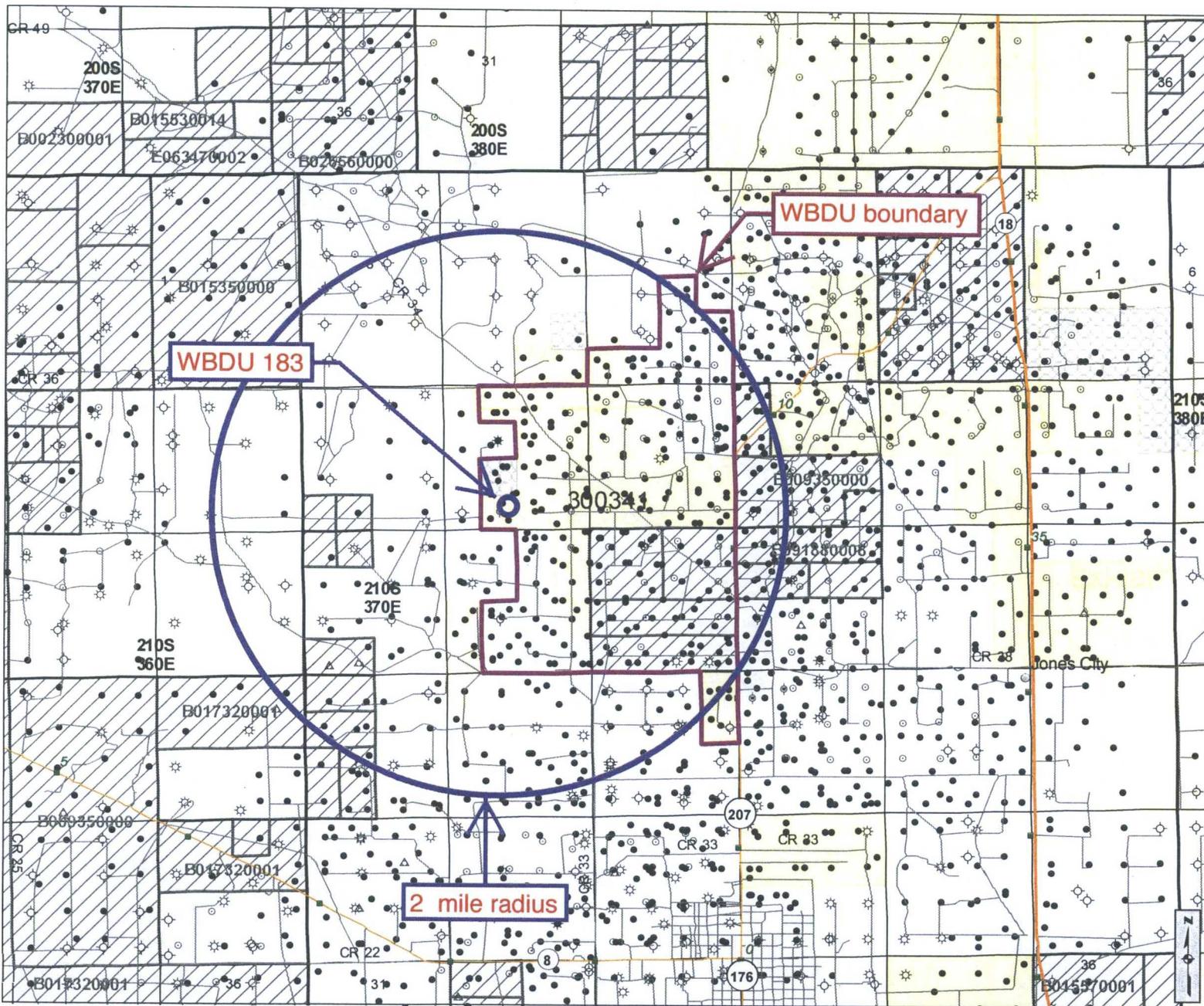
Land Office Geographic Information Center  
logic@slo.state.nm.us

Created On: 1/1/2017 1:19:15 PM

**EXHIBIT D**



www.nmstatelands.org



### Cartographic Features

- County Boundaries
- County Seats
- City, Town or Village
- SLO District Offices
- SLO District Boundary
- Hwy Mileposts
- Interstate
- US Hwy
- NM Hwy
- Local Road
- Continental Divide

### Federal Minerals Ownership

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

### State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

### State Leases

- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

### Oil and Gas Related Features

- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Volcanic Vents
- NMOCD Order R-111-P Potash Enclave Outline

### NMOCD Oil and Gas Wells

- CO<sub>2</sub>
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA

## New Mexico State Land Office Oil, Gas and Minerals

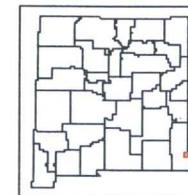
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 Universal Transverse Mercator Projection, Zone 13  
 1983 North American Datum

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Land Office Geographic Information Center  
 logic@slo.state.nm.us

Created On: 1/1/2017 11:56:21 AM

**EXHIBIT E**



www.nmstatelands.org

Sorted by distance from WBDU 183

WELL	SPUD	TVD	CURRENT ZONE	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 043	5/15/80	6825	WSW; San Andres	W	12.25	9.625	1350	485 sx	GL	Circ 200 sx
30-025-26601					8.75	7	6825	1750 sx	GL	Circ 200 sx
N-8-21S-37E										
WBDU 135	11/11/11	7125	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1317	710 sx	GL	Circ 163 sx
30-025-40276					7.875	5.5	7125	960 sx	GL	Circ 3 bbl
N-8-21S-37E										
WBDU 047	7/8/06	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1318	550 sx	GL	Circ 122 sx
30-025-37741					7.875	5.5	6950	1150 sx	170	CBL
K-8-21S-37E										
WBDU 108	10/16/11	7265	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1330	730 sx	GL	Circ 231 sx
30-025-40273					7.875	5.5	7265	1200 sx	210	Circ 114 sx
K-8-21S-37E										

Sorted by distance from WBDU 183

Hawk Fed B 1 012	4/4/52	6722	Penrose Skelly; Grayburg	O	17	13.375	238	260 sx	GL	Circ
30-025-06435					12.25	9.625	2856	1360 sx	GL	Circ
O-8-21S-37E					8.75	7	6659	625 sx	2836	Temp Survey
WBDU 109	4/25/10	7200	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1270	725 sx	GL	Circ
30-025-39733					7.875	5.5	7200	1175 sx	GL	Circ
B-17-21S-37E										
WBDU 185	2/27/17	6945	Eunice; Bli-Tu-Dri, N	I	11	8.625	1393	575 sx	GL	Circ 202 sx
30-025-42493					7.875	5.5	6942	1350 sx	1390	Temp Survey
O-8-21S-37E										
WBDU 044	5/26/79	6936	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1340	692 sx	GL	Circ 100 sx
30-025-26266					7.875	5.5	6880	1760 sx	1478	No report
K-8-21S-37E										

Sorted by distance from WBDU 183

Mittie Weatherly 003	10/13/52	6651	Penrose Skelly; Grayburg	O	17.5	13.375	314	325 sx	GL	Circ
30-025-06649					11	8.625	2812	1500 sx	GL	Circ
C-17-21S-37E					7.875	5.5	6650	350 sx	3200	CBL
WBDU 192	3/11/17	6974	Eunice; Bli-Tu-Dr, N	I	11	8.625	1421	575 sx	GL	Circ 128 sx
30-025-42494					7.875	5.5	6974	1450 sx	190	CBL
J-8-21S-37E										
H T Mattern NCT C 011	4/7/77	7125	Wantz; Abo	P&A	12.25	8.625	1312	350 sx	GL	Circ
30-025-25500					7.875	5.5	6800	2185 sx	GL	Circ
M-8-21S-37E										
Hawk Fed B 1 070	9/18/12	7300	Wantz; Abo	O	12.25	8.625	1380	500 sx	GL	Circ 80 sx
30-025-40678					7.875	5.5	7300	1450 sx	GL	Circ 224 sx
K-8-21S-37E										

Sorted by distance from WBDU 183

Hawk B 1 014	11/25/68	6836	Eunice; Bli-Tu-Dr, N	P&A	12.25	8.625	1322	650 sx	GL	Circ
30-025-22859					7.875	5.5	6836	625 sx	2900	No report
J-8-21S-37E										
WBDU 106	1/18/11	7027	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1399	665 sx	GL	Circ 80 sx
30-025-39407					7.875	5.5	7027	1410 sx	GL	Circ 120 sx
J-8-21S-37E										
WBDU 046	6/10/05	7383	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1420	650 sx	GL	Circ 87 sx
30-025-37020					7.875	5.5	7383	1300 sx	160	CBL
J-8-21S-37E										
WBDU 144H	4/4/12	6673	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	1235	1230 sx	GL	Circ 160 sx
30-025-40429					11	8.625	5741	910 sx	GL	Circ 42 bbl
B-17-21S-37E					7.875	5.5	10657	515 sx	GL	Circ

Sorted by distance from WBDU 183

WBDU 065	11/16/51	6684	Eunice; Bli-Tu-Dr, N	I	12.5	10.75	282	250 sx	GL	Circ
30-025-06642					8.75	7.625	2759	1200 sx	1300	est.
B-17-21S-37E					6.625	5.5	6582	300 sx	3475	Temp Survey
WBDU 124	10/24/11	7300	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1352	710 sx	GL	Circ 102 sx
30-025-40274					7.875	5.5	7300	1225 sx	278	CBL
P-8-21S-37E										
WBDU 117	1/2/11	7000	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1298	670 sx	GL	Circ 80 sx
30-025-39278					7.875	5.5	7000	985 sx	300	CBL
B-17-21S-37E										
Mittie Weatherly 007	7/28/71	3600	Penrose Skelly; Grayburg	O	12.75	8.625	1179	700 sx	GL	Circ 72 bbl
30-025-35745					7.875	5.5	7600	1735 sx	No report	No report
D-17-21S-37E										

Sorted by distance from WBDU 183

Hawk Fed B 1 069	5/25/12	7500	Wantz; Abo	O	12.25	8.625	1389	725 sx	GL	Circ 26 bbl
30-025-40458					7.875	5.5	7500	1400 sx	86	CBL
J-8-21S-37E										
WBDU 040	11/12/49	6758	Eunice; Bli-Tu-Dr, N	I	17	13.375	229	250 sx	GL	Circ
30-025-06433					12.25	9.625	2818	1100 sx	1375	Temp Survey
P-8-21S-37E					8.75	7	6753	625 sx	2321	Temp Survey
WBDU 030	3/17/07	7005	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1307	575 sx	GL	Circ
30-025-38195					7.875	5.5	7005	1250 sx	100	CBL
G-8-21S-37E										
WBDU 125	1/22/11	6951	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1317	665 sx	GL	Circ 222 sx
30-025-39987					7.875	5.5	6951	1300 sx	GL	Circ 137 sx
B-17-21S-37E										

Sorted by distance from WBDU 183

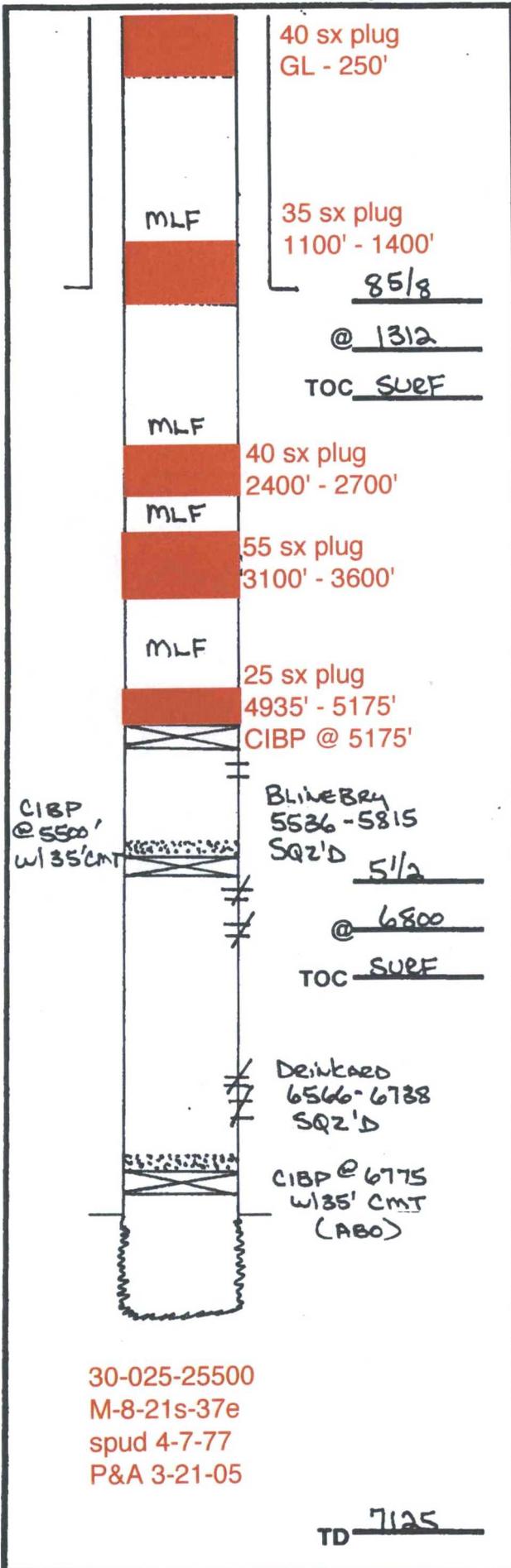
WBDU 024	2/7/66	6819	Eunice; Bli-Tu-Dr, N	O	11	8.625	1330	600 sx	GL	Circ
30-025-21621					6.75	5.5	6819	640 sx	3125	Temp Survey
G-8-21S-37E										
Hawk A 037	12/1/12	7500	Eunice; Bli-Tu-Dr, N	O	11	8.625	1418	505 sx	GL	Circ 120 sx
30-025-40677					7.875	5.5	7500	1250 sx	210	Circ 124 sx
G-8-21S-37E										
M L Goins 004	8/9/91	6974	Eumont; Yates-7 Rivers-Queen (Oil)	O	12.25	8.625	1312	900 sx	No report	Circ
30-025-27439					7.875	4.5	6974	2300 sx	No report	Circ
I-7-21S-37E										

# PLUGGING & ABANDONMENT WORKSHEET

(2 STRING CSNG)

OPERATOR CHEVEON USA INC.  
 LEASE NAME H.T. MATTEEN NCT (C)  
 WELL # 11

SECT 8 TWN 21-S RNG 37-E  
 FROM 410 N/S/L 660 E/W/L       
 TD 7125 FORMATION @ TD Drinkard  
 PBTD      FORMATION @ PBTD Paddock



30-025-25500  
 M-8-21s-37e  
 spud 4-7-77  
 P&A 3-21-05

TD 7125

	SIZE	SET @	TOC	TOC DETERMINED BY
SURFACE	8 5/8	1312	SURF	Circ.
INTMED 1				
INTMED 2				
PROD	5 1/2	6800	SURF	Circ.

	SIZE	TOP	BOT	TOC	DETERMINED BY
LINER 1					
LINER 2					

	CUT & PULL	TOP - BOTTOM
INTMED 1		PERFS 5228 - 5294
INTMED 2		OPENHOLE
PROD		

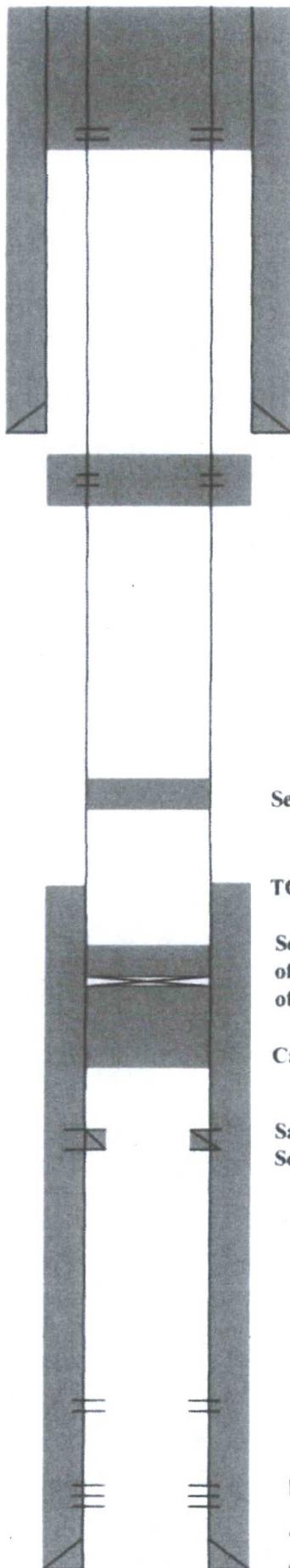
\*REQUIRED PLUGS DISTRICT

	PLUG	TYPE PLUG	SACKS CEMENT	DEPTH
RUSTLER (ANHYD)	1	CIBP	25	5175
YATES	2	Queen	40	3500
QUEEN	3	B-SALT	30	2700
GRAYBURG	4	8 5/8 S	30	1400
SAN ANDRES	5	SURF	25	250
CAPITAN REEF				
DELAWARE				
BELL CANYON				
CHERRY CANYON				
BRUSHY CANYON				
BONE SPRING				
GLORIETA				
BLINBRY				
TUBB				
DRINKARD				
ABO				
WC				
PENN				
STRAWN				
ATOKA				
MORROW				
MISS				
DEVONIAN				

EXHIBIT F

Conoco, Inc.  
 Hawk B-1 No. 14  
 API No. 30-025-22859  
 1980' FSL & 1980' FEL, Unit J  
 Section 8, T-21S, R-37E  
 Type Well: Producer

Date Drilled: 11/68  
 Date PA'd: 10/97



Perforate 5 1/2" csg. @ 350'.  
 Squeeze cmt. to surface w/175 sx.

12 1/4" Hole; 8 5/8" csg. set @ 1,322'  
 Cemented w/650 sx.  
 Cement circulated to surface

Perforate 5 1/2" csg. @ 1,372'. Set 25 sx.  
 cmt. plug @ 1,372'

Set 25 sx. cmt. plug @ 2,567'

TOC @ 2,900' (Well File)

Set cement retainer @ 3,400'. Pump 67 Bbls  
 of Class C cmt. through retainer. Sting out  
 of retainer & set 6 sx. cmt. on tool.

Casing collapsed @ 3,553'

San Andres Perforations: 4,151'-4,196'  
 Squeezed w/100 Sx. cmt.

Blinebry Perforations: 5,666'-5,876'

Drinkard Perforations: 6,660'-6,700'

7 7/8" Hole; 5 1/2" csg. set @ 6,836'  
 Cemented w/625 Sx. TOC @ 2,900' by Well File

T.D. 6,836'

EXHIBIT F

Apache Corporation  
 Form C-108: 8 Wells-WBDU  
 PA Schematic-Hawk B-1 No. 14



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water Column	Water
CP 01026 POD1			LE	1	1	3	17	21S	37E	669809	3594958	1192	167	95	72
1 mile =															
CP 00447 POD1	CP		LE	2	4	4	18	21S	37E	669647	3594451*	1717	95		
1610 meters															
CP 00448 POD1	CP		LE	2	4	4	18	21S	37E	669647	3594451*	1717	100		
CP 00676			LE		4	4	18	21S	37E	669548	3594352*	1850	140	106	34
CP 00986 POD1			LE	4	3	4	06	21S	37E	669110	3597437	1926	154		
CP 00895			LE		1	1	20	21S	37E	669957	3593956*	2088	163		
CP 01245 POD1	CP		LE			4	18	21S	37E	668676	3594411	2338	220		
CP 00554			LE		2	2	16	21S	37E	672744	3595610*	2383	80	70	10
CP 00877			LE				06	21S	37E	668920	3598153*	2608	150	73	77
CP 00985 POD1			LE	4	4	2	19	21S	37E	669595	3593453	2667	160		
CP 00446 POD1	CP		LE	1	4	4	13	21S	36E	667871	3594424*	2972	185	148	37
CP 00446 POD2	CP		LE	1	4	4	13	21S	36E	667871	3594424*	2972	200	151	49
CP 00552			LE		2	4	04	21S	37E	672700	3598022*	3069	90	75	15
CP 00553			LE		2	4	04	21S	37E	672700	3598022*	3069	90	75	15
CP 01486 POD1	CP		LE	4	2	1	05	21S	37E	670333	3599085	3086	140	52	88
CP 00729 POD1	CP		LE	4	1	3	15	21S	37E	673259	3594711*	3143	8015		

Average Depth to Water: **93 feet**  
 Minimum Depth: **52 feet**  
 Maximum Depth: **151 feet**

Record Count: 16

**UTMNAD83 Radius Search (in meters):**

Easting (X): 670392

Northing (Y): 3595999

Radius: 3220



\*UTM location was derived from PLSS - see Help

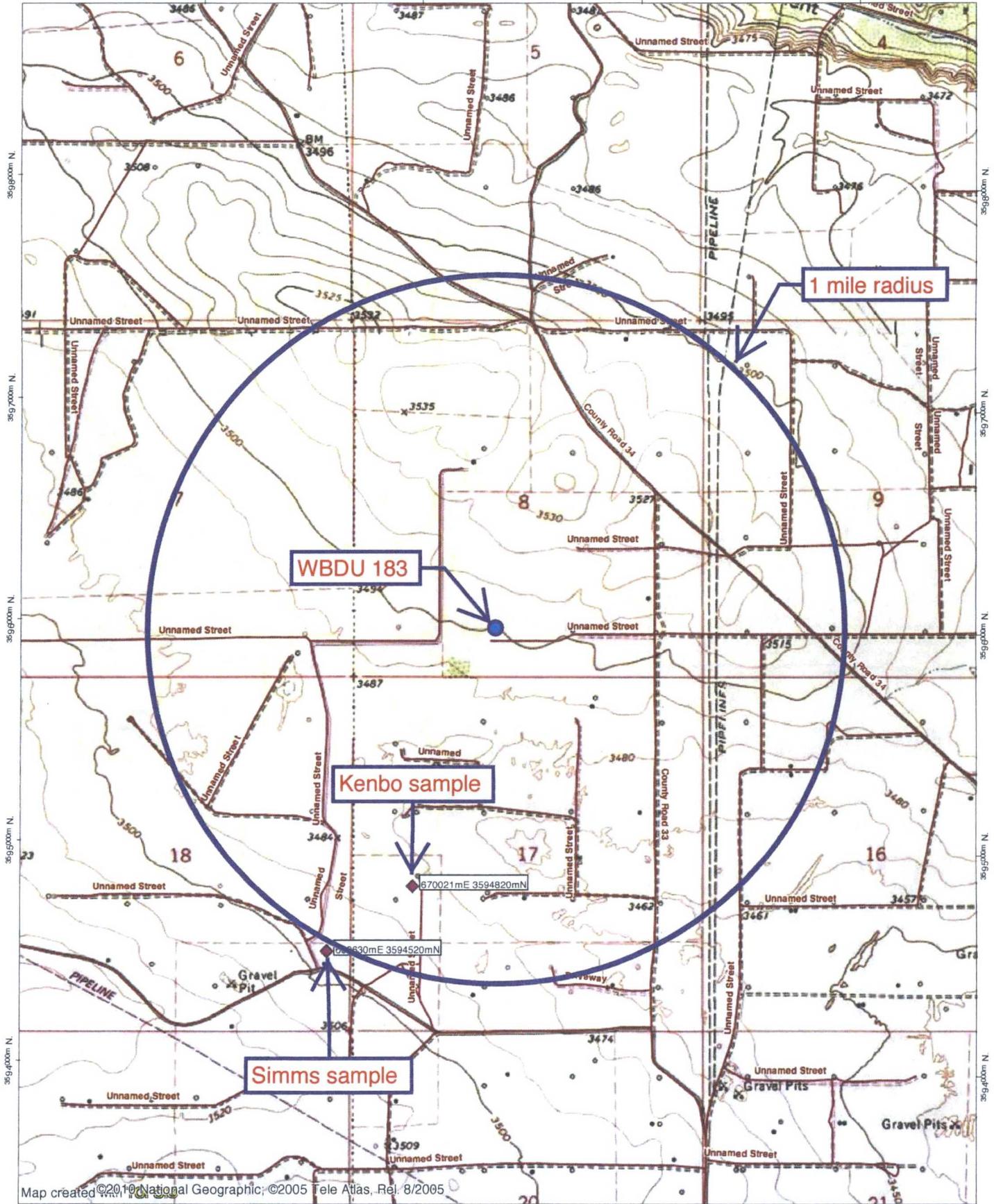
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

669000m E.

670000m E.

671000m E.

WGS84 Zone 13S 672000m E.



Map created with TOPO! ©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005



EXHIBIT G

TN MN 6.5° 07/03/17

Analytical Report

Lab Order 1705755

Date Reported: 5/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: Kenbo Well

Project: Apache WBDU 221,183

Collection Date: 5/9/2017 10:12:00 AM

Lab ID: 1705755-001

Matrix: AQUEOUS

Received Date: 5/15/2017 1:20:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 1664B</b>							Analyst: <b>SMS</b>
N-Hexane Extractable Material	ND	10.4		mg/L	1	5/17/2017	31792
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	57	10		mg/L	20	5/16/2017 6:49:50 PM	R42844
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	480	20.0		mg/L	1	5/17/2017 5:54:00 PM	31769

EXHIBIT G

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
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1705755

Date Reported: 5/23/2017

CLIENT: Permits West

Client Sample ID: Simms Pond

Project: Apache WBDU 221,183

Collection Date: 5/9/2017 11:16:00 AM

Lab ID: 1705755-002

Matrix: AQUEOUS

Received Date: 5/15/2017 1:20:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 1664B</b>							Analyst: SMS
N-Hexane Extractable Material	ND	9.75		mg/L	1	5/17/2017	31792
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	130	10		mg/L	20	5/16/2017 7:14:40 PM	R42844
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: KS
Total Dissolved Solids	680	20.0	*	mg/L	1	5/17/2017 5:54:00 PM	31769

**EXHIBIT G**

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
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Permits West

**Client Sample ID:** Decley Pond

**Project:** Apache WBDU 221,183

**Collection Date:** 5/9/2017 1:12:00 PM

**Lab ID:** 1705755-003

**Matrix:** AQUEOUS

**Received Date:** 5/15/2017 1:20:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 1664B</b>							Analyst: <b>SMS</b>
N-Hexane Extractable Material	ND	10.9		mg/L	1	5/17/2017	31792
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	370	10	*	mg/L	20	5/16/2017 8:04:19 PM	R42844
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	970	20.0	*	mg/L	1	5/17/2017 5:54:00 PM	31769



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	Page 3 of 7
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Analytical Report

Lab Order 1705755

Date Reported: 5/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Project: Apache WBDU 221,183

Lab ID: 1705755-004

Client Sample ID: McCasland Tank

Collection Date: 5/10/2017 11:15:00 AM

Received Date: 5/15/2017 1:20:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 1664B</b>							Analyst: SMS
N-Hexane Extractable Material	ND	11.4		mg/L	1	5/17/2017	31792
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	48	10		mg/L	20	5/16/2017 8:29:09 PM	R42844
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: KS
Total Dissolved Solids	402	20.0		mg/L	1	5/17/2017 5:54:00 PM	31769



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
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705755

23-May-17

Client: Permits West  
Project: Apache WBDU 221,183

Sample ID	MB-31792	SampType:	MBLK	TestCode:	EPA Method 1664B					
Client ID:	PBW	Batch ID:	31792	RunNo:	42900					
Prep Date:	5/17/2017	Analysis Date:	5/17/2017	SeqNo:	1350672	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10.0								
Silica Gel Treated N-Hexane Extrac	ND	10.0								

Sample ID	LCS-31792	SampType:	LCS	TestCode:	EPA Method 1664B					
Client ID:	LCSW	Batch ID:	31792	RunNo:	42900					
Prep Date:	5/17/2017	Analysis Date:	5/17/2017	SeqNo:	1350673	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	35.6	10.0	40.00	0	89.0	78	114			
Silica Gel Treated N-Hexane Extrac	16.0	10.0	20.00	0	80.0	64	132			

### 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
- R RPD outside accepted recovery limits
- 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 Detection Limit
- W Sample container temperature is out of limit as specified

**EXHIBIT G**

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705755

23-May-17

Client: Permits West  
Project: Apache WBDU 221,183

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R42844	RunNo:	42844					
Prep Date:		Analysis Date:	5/16/2017	SeqNo:	1347914	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R42844	RunNo:	42844					
Prep Date:		Analysis Date:	5/16/2017	SeqNo:	1347915	Units:	mg/L			
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
- R RPD outside accepted recovery limits
- 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 Detection Limit
- W Sample container temperature is out of limit as specified

**EXHIBIT G**

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1705755

23-May-17

**Client:** Permits West  
**Project:** Apache WBDU 221,183

Sample ID	MB-31769	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	31769	RunNo:	42866					
Prep Date:	5/16/2017	Analysis Date:	5/17/2017	SeqNo:	1348678	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-31769	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	31769	RunNo:	42866					
Prep Date:	5/16/2017	Analysis Date:	5/17/2017	SeqNo:	1348679	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	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
- R RPD outside accepted recovery limits
- 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 Detection Limit
- W Sample container temperature is out of limit as specified

**EXHIBIT G**

Ogallala boundary



WBDU 183



32.47391, -103.17395

18

EXHIBIT G

Google earth

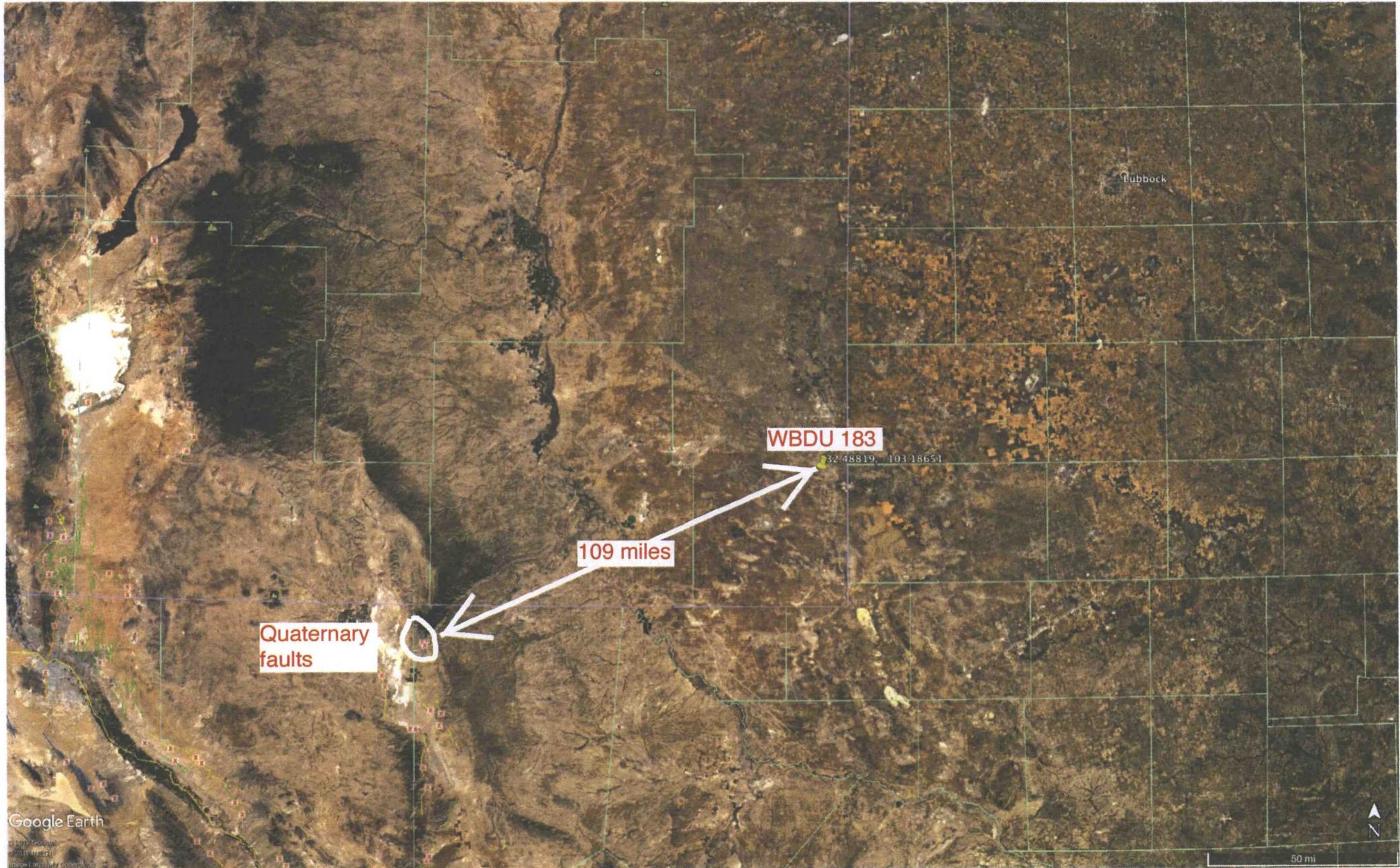
Survey

6388 ft

2013 Google

© 1997

Imagery Date: 11/14/2011 lat 32.491976° lon -103.151997° elev 3459 ft eye alt 31166 ft



Quaternary faults

WBDU 183

109 miles

Lubbock

32.48819, -103.18651

Google Earth

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50 mi

EXHIBIT H

From: **Oldani, Martin** Martin.Oldani@apachecorp.com  
Subject: FW: shallow faulting in the vicinity of WBDU  
Date: January 11, 2016 at 4:27 PM  
To: brian@permitswest.com  
Cc: Shapot, Bret Bret.Shapot@apachecorp.com

OM

Brian,

As per Mark's comments below, our G&G staff has taken a look at the potential issue of shallow faulting in the WBDU area and have concluded there is none present across the area and no danger of shallow faulting as a conduit to groundwater contamination.

Regards,

**MARTIN J. OLDANI**  
PERMIAN REGION EXPLORATION & EXPLOITATION MANAGER  
Apache main (432) 818 1000 | fax (432) 818 1982  
office 6100A | direct (432) 818 1030 | mobile (432) 234-1925  
[martin.oldani@apachecorp.com](mailto:martin.oldani@apachecorp.com)

**APACHE CORPORATION - PERMIAN REGION**  
303 Veterans Airway Park  
Midland, TX 79705

---

From: Pasley, Mark  
Sent: Monday, January 11, 2016 4:48 PM  
To: Oldani, Martin <Martin.Oldani@apachecorp.com>  
Cc: O'Shay, Justin <Justin.O'Shay@apachecorp.com>; Riley, Brent <Brent.Riley@apachecorp.com>; Shapot, Bret <Bret.Shapot@apachecorp.com>; Piggott, Fiona <fiona.piggott@apachecorp.com>  
Subject: shallow faulting in the vicinity of WBDU

Martin:

In reference to the meeting this morning where we discussed the possibility of shallow faulting in the WBDU area and its potential impact on the permitting of the injection well(s) into the Drinkard, I submit to you the attached slide set from me and Justin. You will see that we have done several extractions on the seismic data and there is no indication of faulting above the Glorieta which is well above the Drinkard and below the younger evaporites. Also, as we suspected, there are no surface faults mapped in the area – the nearest being more than 50 miles away.

Please contact me or Justin if you have further questions.

Sincerely,

**DR. MARK PASLEY**

GEOLOGICAL ADVISOR

direct +1 432.818.1835 | mobile +1 832.943.9040 | office 6112A

**APACHE PERMIAN**

303 Veterans Airpark Lane

Midland, TX 79705 USA

[ApacheCorp.com](http://ApacheCorp.com) | [LinkedIn](#) | [Facebook](#) | [Twitter](#) | [StockTwits](#) | [YouTube](#)

EXHIBIT H

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
May 05, 2017  
and ending with the issue dated  
May 05, 2017.

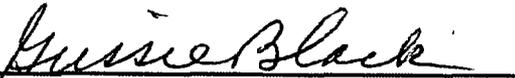
**LEGAL NOTICE**  
May 5, 2017

Apache Corporation is applying to drill the West Blinbry/Drinkard Unit 183 well as a water injection well. The well is staked at 730 FSL & 2215 FWL, Sec. 8, T. 21 S., R. 37 E., Lea County, NM. This is 4 miles northwest of Eunice, NM. It will inject water into the Blinbry, Tubb, and Drinkard (maximum injection pressure is 1,120 psi) from 5,732 to 6,849. Injection will be at a maximum rate of 3,000 bwpd. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87506 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. #3782



Publisher

Sworn and subscribed to before me this  
5th day of May 2017.

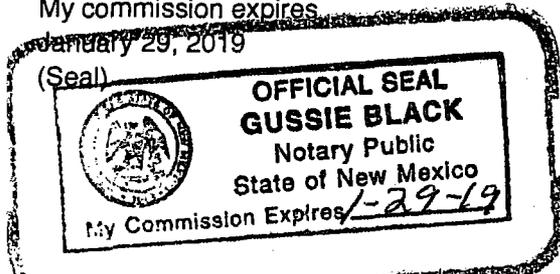


Business Manager

My commission expires

January 29, 2019

(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

02108485

00192840

BRIAN WOOD  
PERMITS WEST  
37 VERANO LOOP  
SANTA FE, NM 87508

EXHIBIT I

**PERMITS WEST**, INC.  
PROVIDING PERMITS for LAND USERS  
37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

July 5, 2017

Millard Deck Estate  
c/o Harding & Carbone Inc.  
1235 North Loop West  
Houston TX 77008

Apache Corporation is planning (see attached application) to complete its West Blinebry Drinkard Unit 183 as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: West Blinebry Drinkard Unit 183 (BLM lease) ID = 6961'  
Proposed Injection Zones: Blinebry, Tubb, & Drinkard from 5746' to 6849'  
Where: 730' FSL & 2215' FWL Sec. 8, T. 21 S., R. 37 E., Lea County, NM  
Approximate Location: 4 air miles NNW of Eunice, NM  
Applicant Name: Apache Corporation (432) 818-1062  
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for a water injection 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,



Brian Wood

EXHIBIT J

7015 1660 0000 1583 2423

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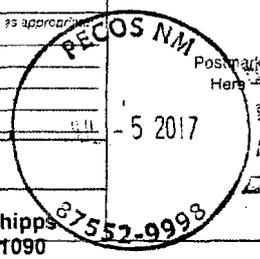
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Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To: **Tommy Phipps**  
**PO Box 11090**  
**Midland TX 79702**  
**APC-WBDU 183**

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To: **Six Aeches Co.**  
**902 Country Club**  
**Midland TX 79701**  
**APC-WBDU 183**

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



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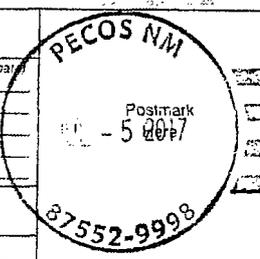
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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To: **Oxy USA WTP LP**  
**PO Box 50250**  
**Midland TX 79710**  
**APC-WBDU 183**

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To: **Penroc Oil Corp.**  
**PO Box 2769**  
**Hobbs NM 88241**  
**APC-WBDU 183**

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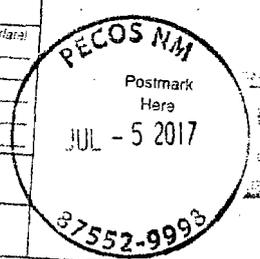
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Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To: **Robert Lansford**  
**606 Abo**  
**Hobbs NM 88240**  
**APC-WBDU 183**

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To: **NM Co. Inc.**  
**PO Box 2479**  
**Midland TX 79702**  
**APC-WBDU 183**

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

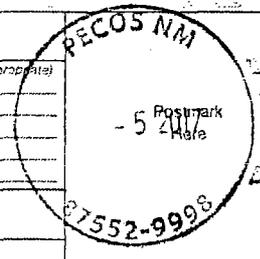


EXHIBIT J

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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

JUL - 5 2017  
Postmark Here  
87552-9998

Postage	\$
Total Postage and Fees	\$

Sent To	ConocoPhillips
Street and Apt. No., or PO Box No.	PO Box 7500 Bartlesville, OK 74005 APC-WBDU 183
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1660 0000 099T 510L

U.S. Postal Service™  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

JUL - 5 2017  
Postmark Here  
87552-9998

Postage	\$
Total Postage and Fees	\$

Sent To	Lanexco
Street and Apt. No., or PO Box No.	107 Main St Sealy, TX 77474 APC-WBDU 183
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1660 0000 099T 510L

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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

JUL - 5 2017  
Postmark Here  
87552-9998

Postage	\$
Total Postage and Fees	\$

Sent To	Chevron USA
Street and Apt. No., or PO Box No.	6301 Deauville Blvd. Midland, TX 79706 APC-WBDU 183
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1660 0000 099T 510L

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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

JUL - 5 2017  
Postmark Here  
87552-9998

Postage	\$
Total Postage and Fees	\$

Sent To	J R Oil, Ltd. Co.
Street and Apt. No., or PO Box No.	PO Box 2975 Hobbs, NM 88241 APC-WBDU 183
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1660 0000 099T 510L

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For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

JUL - 5 2017  
Postmark Here  
87552-9998

Postage	\$
Total Postage and Fees	\$

Sent To	Millard Deck Estate
Street and Apt. No., or PO Box No.	c/o Harding & Carbone 1235 North Loop West Houston, TX 77008 APC-WBDU 183
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1660 0000 099T 510L

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Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

JUL - 5 2017  
Postmark Here  
87552-9998

Postage	\$
Total Postage and Fees	\$

Sent To	BLM
Street and Apt. No., or PO Box No.	620 E. Greene Carlsbad, NM 88220 APC-WBDU 183
City, State, ZIP+4®	

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

EXHIBIT J

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

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Certified Mail Fee  
 \$

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  
 \$

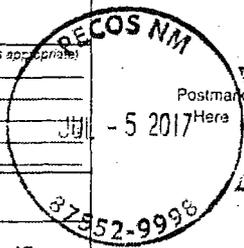
Total Postage and Fees  
 \$

Sent To  
**Robert Hannifin**  
**c/o Mark Hannifin**  
**PO Box 218**  
**Midland TX 79702**  
**APC-WBDU 183**

Street and Apt. No., or P.O. Box No.  
 City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1660 0000 1583 236c



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Certified Mail Fee  
 \$

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  
 \$

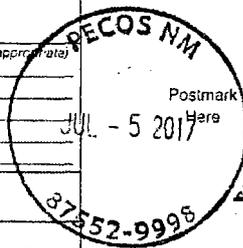
Total Postage and Fees  
 \$

Sent To  
**John Hendrix Corp.**  
**6 Desta Dr., Suite 2100**  
**Midland TX 79705**  
**APC-WBDU 183**

Street and Apt. No., or P.O. Box No.  
 City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1660 0000 1583 237f



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Certified Mail Fee  
 \$

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  
 \$

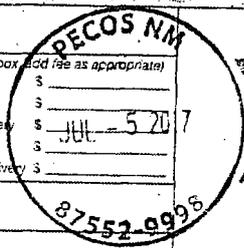
Total Postage and Fees  
 \$

Sent To  
**Mark Hannifin**  
**PO Box 11182**  
**Midland TX 79702**  
**APC-WBDU 183**

Street and Apt. No., or P.O. Box No.  
 City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1660 0000 1583 234g



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Certified Mail Fee  
 \$

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  
 \$

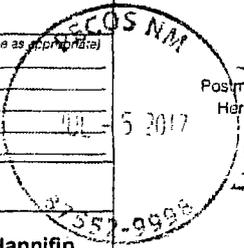
Total Postage and Fees  
 \$

Sent To  
**Patrick Hannifin**  
**c/o Steve Hannifin**  
**1225 Gabriel Lane**  
**Fort Worth TX 76116**  
**APC-WBDU 183**

Street and Apt. No., or P.O. Box No.  
 City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

55E2 E8ST 0000 1583 2355



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Certified Mail Fee  
 \$

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  
 \$

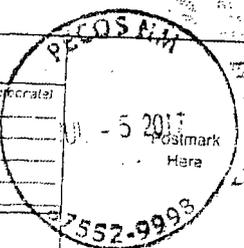
Total Postage and Fees  
 \$

Sent To  
**Chevron USA Prod. Co.**  
**PO Box 1635**  
**Houston TX 77251**  
**APC-WBDU 183**

Street and Apt. No., or P.O. Box No.  
 City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1660 0000 1583 2324



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*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®

Certified Mail Fee  
 \$

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  
**Barbara Hannifin**  
**PO Box 182**  
**Roswell NM 88202**  
**APC-WBDU 183**

Street and Apt. No., or P.O. Box No.  
 City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7015 1660 0000 1583 232f

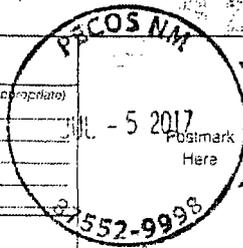


EXHIBIT J

<b>SENDER: COMPLETE THIS SECTION</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i>	
Article Addressed to:  BLM 620 E. Greene Carlsbad NM 88220  APC-WBDU-183  9590 9402 2353 6225 9362 00		<input type="checkbox"/> Agent <input type="checkbox"/> Addressee B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>7/10/17</i>	
Article Number (Transfer from service label) <b>7015 1660 0000 1583 2270</b>		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

<b>SENDER: COMPLETE THIS SECTION</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i>	
Article Addressed to:  Chevron USA Prod. Co. PO Box 1635 Houston TX 77251  APC-WBDU-183  9590 9402 2353 6225 9362 55		<input type="checkbox"/> Agent <input type="checkbox"/> Addressee B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>7-12-17</i>	
Article Number (Transfer from service label) <b>7015 1660 0000 1583 2324</b>		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

<b>SENDER: COMPLETE THIS SECTION</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i>	
Article Addressed to:  Chevron USA 6301 Deauville Blvd. Midland TX 79706  APC-WBDU-183  9590 9402 2353 6225 9362 17		<input type="checkbox"/> Agent <input type="checkbox"/> Addressee B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>7-10-17</i>	
Article Number (Transfer from service label) <b>7015 1660 0000 1583 2287</b>		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

<b>SENDER: COMPLETE THIS SECTION</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i>	
Article Addressed to:  ConocoPhillips PO Box 7500 Bartlesville OK 74005  APC-WBDU-183  9590 9402 2353 6225 9362 31		<input type="checkbox"/> Agent <input type="checkbox"/> Addressee B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>JUL 10 2017</i>	
Article Number (Transfer from service label) <b>7015 1660 0000 1583 2300</b>		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No Mail Service Bartlesville, OK	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:  
 Millard Deck Estate c/o Harding & Carbone  
 1235-North Loop West  
 Houston TX 77008

APC-WBDU 183

9590 9402 2353 6225 9361 94

Article Number (Transfer from service label)  
 7015 1660 0000 1583 2263

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *Alyssa Dempsey*  Agent  
 Addressee

B. Received by (Printed Name) *Alyssa Dempsey* C. Date of Delivery *7/10/17*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Restricted Delivery	

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:  
 Barbara Hannifin  
 PO Bx 182  
 Roswell NM 88202

APC-WBDU 183

9590 9402 2353 6225 9362 62

Article Number (Transfer from service label)  
 7015 1660 0000 1583 2331

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *Barbara Hannifin*  Agent  
 Addressee

B. Received by (Printed Name) *Barbara Hannifin* C. Date of Delivery *7/10/17*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Restricted Delivery	

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:  
 Patrick Hannifin c/o Steve Hannifin  
 1225 Gabriel Lane  
 Ft. Worth TX 76116

APC-WBDU 183

9590 9402 2353 6225 9362 86

Article Number (Transfer from service label)  
 7015 1660 0000 1583 2355

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *Patrick Hannifin*  Agent  
 Addressee

B. Received by (Printed Name) *S. Hannifin* C. Date of Delivery *7/8/17*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Restricted Delivery	

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:  
 John Hendrix Corp.  
 6 Desta Dr., Suite 2100  
 Midland TX 79705

APC-WBDU 183

9590 9402 2353 6225 9362 93

Article Number (Transfer from service label)  
 7015 1660 0000 1583 2379

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *John Sim*  Agent  
 Addressee

B. Received by (Printed Name) *John Sim* C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Restricted Delivery	

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

J R Oil, Ltd. Co.  
PO Box 2975  
Hobbs NM 88241

APC-WBDU 183

9590 9402 2353 6225 9362 24

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *[Signature]*  Agent  
 Addressee

B. Received by (Printed Name) *Joe N. Terry* C. Date of Delivery *7/10/17*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery  
 Insured Mail  Restricted Delivery

Article Number (Transfer from service label)  
7015 1660 0000 1583 2294

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Robert Lansford  
606 Abo  
Hobbs NM 88240

APC-WBDU 183

9590 9402 2353 6225 9363 16

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *[Signature]*  Agent  
 Addressee

B. Received by (Printed Name) *ROBERT LANSFORD* C. Date of Delivery *7-10*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery  
 Insured Mail  Restricted Delivery

2. Article Number (Transfer from service label)  
7015 1660 0000 1583 2386

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Lanexco  
107 Main St.  
Sealy TX 77474

APC-WBDU 183

9590 9402 2353 6225 9362 48

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *[Signature]*  Agent  
 Addressee

B. Received by (Printed Name) *Lina Laskoskie* C. Date of Delivery *7-10-17*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery  
 Insured Mail  Restricted Delivery

2. Article Number (Transfer from service label)  
7015 1660 0000 1583 2317

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Oxy USA WTP LP  
PO Box 50250  
Midland TX 79710

APC-WBDU 183

9590 9402 2353 6225 9363 30

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *[Signature]*  Agent  
 Addressee

B. Received by (Printed Name) *Ashlan C. Maria* C. Date of Delivery *7/11/17*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery  
 Insured Mail  Restricted Delivery

2. Article Number (Transfer from service label)  
7015 1660 0000 1583 2409

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

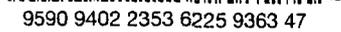
**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Penroc Oil Corp.  
PO Box 2769  
Hobbs NM 88241

APC-WBDU 183



9590 9402 2353 6225 9363 47

Article Number (Transfer from envelope label)

7015 1660 0000 1583 2416

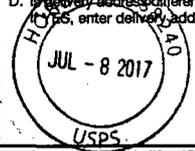
PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  Addressee  
*[Handwritten Signature]*

B. Received by (Printed Name) *M. J. Marchant* C. Date of Delivery *7/8/17*

D. Is delivery address different from item 1?  Yes  No  
 If Yes, enter delivery address below:  No



3. Service Type
- |  |   |
|--|---|
| <input type="checkbox"/> Adult Signature                     | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™                           |
| <input checked="" type="checkbox"/> Certified Mail®          | <input type="checkbox"/> Registered Mail Restricted Delivery        |
| <input type="checkbox"/> Certified Mail Restricted Delivery  | <input type="checkbox"/> Return Receipt for Merchandise             |
| <input type="checkbox"/> Collect on Delivery                 | <input type="checkbox"/> Signature Confirmation™                    |
| <input type="checkbox"/> Delivery Restricted Delivery        | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Restricted Delivery         |   |

Domestic Return Receipt



7/24/2017

C-108 Review Checklist: Received \_\_\_\_\_ Add. Request: \_\_\_\_\_ Reply Date: \_\_\_\_\_ Suspended: \_\_\_\_\_ [Ver 15]

ORDER TYPE: WFX / PMX / SWD Number: WFX Order Date: \_\_\_\_\_ Legacy Permits/Orders: R72981

Well No. 183 Well Name(s): WBD4

API: 30-0 25-43780 Spud Date: 5/7/2017 New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 730 FSL 2213 FUL Lot \_\_\_\_\_ or Unit N Sec 8 Tsp 215 Rge 37E County LEN  
EMMICK, BLI-T4 PM

General Location: 3 miles NW / EMMICK Pool: \_\_\_\_\_ Pool No.: 22900

BLM 100K Map: JAI Operator: Apache Corp OGRID: 873 Contact: Wood, Agent  
Brian

COMPLIANCE RULE 5.9: Total Wells: 238 Inactive: 3 Fincl Assur: OK Compl. Order? MA IS 5.9 OK? y Date: 8/08/2017

WELL FILE REVIEWED  Current Status: drilled, exact

WELL DIAGRAMS: NEW: Proposed  or RE-ENTER: Before Conv.  After Conv.  Logs in Imaging: y

Planned Rehab Work to Well: \_\_\_\_\_

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing <u>(Surface)</u>	<u>11 1/8 9 1/2"</u>	<u>1300-1348</u>	<u>274</u>	<u>Surface/Visu</u>
Planned ___ or Existing <u>(Interm/Prod)</u>	<u>7 7/8 5 1/2"</u>	<u>6961</u>	<u>1350</u>	<u>Surface/Visu</u>
Planned ___ or Existing <u>(Interm/Prod)</u>				
Planned ___ or Existing <u>(Prod/Liner)</u>				
Planned ___ or Existing <u>(Liner)</u>				
Planned ___ or Existing <u>(OH/PERF)</u>	<u>5746-6961</u>			

Completion/Operation Details:	
Drilled TD	<u>6961</u> PBDT _____
NEW TD	NEW PBDT _____
NEW Open Hole	<input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>
Tubing Size	<u>2 3/8</u> in. Inter Coated? <u>y</u>
Proposed Packer Depth	<u>5616</u> ft
Min. Packer Depth	<u>5646</u> (100-ft limit)
Proposed Max. Surface Press.	<u>1120</u> psi
Admin. Inj. Press.	<u>1120</u> (0.2 psi per ft)

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		<u>ST2 BL</u>	<u>5732</u>
Confining Unit: Litho. Struc. Por.	<u>6237</u>	<u>ST1 P</u>	<u>5732</u>
Proposed Inj Interval TOP:	<u>5270</u>	<u>ST1 P</u>	<u>5732</u>
Proposed Inj Interval BOTTOM:	<u>6270</u>	<u>ST1 P</u>	<u>6237</u>
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

**AOR: Hydrologic and Geologic Information**

**POTASH:** R-111-P \_\_\_\_\_ Noticed? \_\_\_\_\_ BLM Sec Ord  WIPP  Noticed? \_\_\_\_\_ Salt/Salado T: 181 B: 2617 NW: Cliff House fm \_\_\_\_\_

**FRESH WATER:** Aquifer Quaternary Max Depth 167 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: Capitan CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 1 FW Analysis \_\_\_\_\_

Disposal Fluid: Formation Source(s) \_\_\_\_\_ Analysis? \_\_\_\_\_ On Lease  Operator Only  or Commercial

Disposal Int: Inject Rate (Avg/Max BWP) 25K/3K Protectable Waters? \_\_\_\_\_ Source: \_\_\_\_\_ System: Closed or Open

**HC Potential:** Producing Interval? y Formerly Producing? \_\_\_\_\_ Method: Logs/DST/P&A/Other \_\_\_\_\_ 2-Mile Radius Pool Map

**AOR Wells:** 1/2-M Radius Map? y Well List? \_\_\_\_\_ Total No. Wells Penetrating Interval: 27 Horizontals? N/A

Penetrating Wells: No. Active Wells 24 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

Penetrating Wells: No. P&A Wells 2 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? y

NOTICE: Newspaper Date May 5, 2017 Mineral Owner BLM Surface Owner Millers Dale Estate N. Date July 8, 2017

RULE 26.7(A): Identified Tracts? \_\_\_\_\_ Affected Persons: Chevron, JR Oil N. Date July 8, 2017

Order Conditions: Issues: \_\_\_\_\_

Add Order Cond: \_\_\_\_\_