

RECEIVED <b>6-21-2017</b>	REVIEWER <b>MAM</b>	TYPE <b>WFX</b>	APP NO <b>PKSC1717233867</b>
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

<b>Applicant:</b> Apache Corporation	<b>OGRID Number:</b> 873
<b>Well Name:</b> West Blinbery-Drinkard Unit 180 & 182	<b>API:</b> 30-025-43529 & 30-025-43530
<b>Pool:</b> Eunice, BLI-TU-DR, North	<b>Pool Code:</b> 22900

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

*WFX-968*

- 1) **TYPE OF APPLICATION:** Check those which apply for [A]
- A. Location - Spacing Unit - Simultaneous Dedication
- NSL       NSP (PROJECT AREA)       NSP (PRORATION UNIT)       SD
- B Check one only for [ I ] or [ II ]
- [ I ] Commingling - Storage - Measurement
- DHC     CTB     PLC     PC     OLS     OLM
- [ II ] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
- WFX     PMX     SWD     IPI     EOR     PPR

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

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

3) **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division

**Note Statement must be completed by an individual with managerial and/or supervisory capacity**

Brian Wood \_\_\_\_\_

Print or Type Name

*Brian Wood*

Signature

6-19-17 \_\_\_\_\_  
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

VII Attach data on the proposed operation, including  
WEST BLINEBRY DRINKARD UNIT  
#180 (30-025-43529)  
#182 (30-025-43530)  
1 Proposed average and maximum daily rate and volume of fluids to be injected,  
2 Whether the system is open or closed,  
3 Proposed average and maximum injection pressure,  
4 Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water, and,  
5 If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc )

\*VIII Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval

IX Describe the proposed stimulation program, if any


\*X Attach appropriate logging and test data on the well (If well logs have been filed with the Division, they need not be resubmitted)

\*XI Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken

XII Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water

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

XIV Certification I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief

NAME BRIAN WOOD  TITLE CONSULTANT  
SIGNATURE \_\_\_\_\_ DATE JUNE 6, 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

OPERATOR APACHE CORPORATION

WELL NAME & NUMBER WEST BLINEBRY DRINKARD UNIT 180

WELL LOCATION 784' FSL & 2061' FEL      O      17      21 S      37 E  
 FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

**WELLBORE SCHEMATIC**

**WELL CONSTRUCTION DATA**

Surface Casing

Hole Size 11"      Casing Size 8.625"  
 Cemented with 575 sx      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement SURFACE      Method Determined CIRC. 104 SX

Intermediate Casing

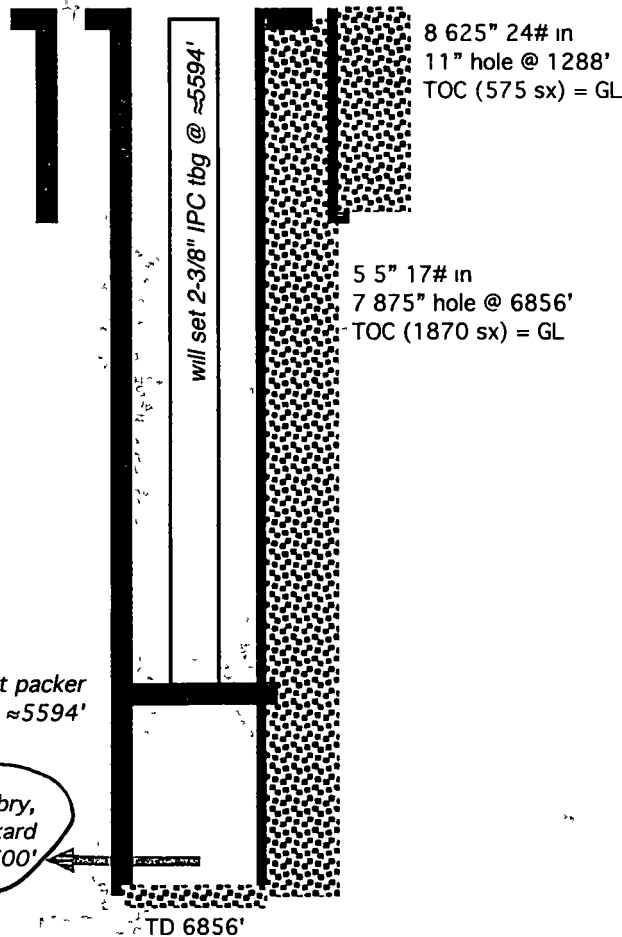
Hole Size \_\_\_\_\_      Casing Size \_\_\_\_\_  
 Cemented with \_\_\_\_\_ sx      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement \_\_\_\_\_      Method Determined \_\_\_\_\_

Production Casing

Hole Size 7.875"      Casing Size 5.5"  
 Cemented with 1870 sx      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement SURFACE      Method Determined CIRC. 117 SX  
 Total Depth 6856'

Injection Interval

5644 feet to 6700'



(not to scale)

(Perforated or Open Hole, indicate which)

■■■■■■■■■■



INJECTION WELL DATA SHEETTubing Size 2-3/8" J-55 4.7# Lining Material. INTERNAL PLASTIC COATType of Packer LOCK SET INJECTIONPacker Setting Depth 5594'

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

Additional Data1 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, & DRINKARD3 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 (3684'), SAN ANDRES (3910'), PADDOCK (5211')UNDER: ABO (6715')

INJECTION WELL DATA SHEET

OPERATOR APACHE CORPORATION

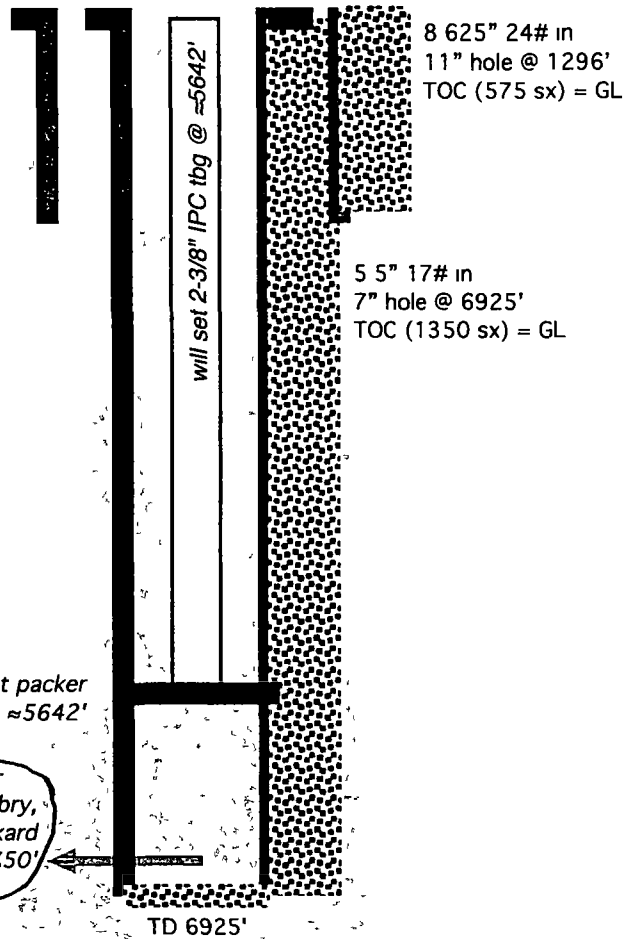
WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 182

WELL LOCATION 1834' FNL & 1980' FEL      G      17      21 S      37 E  
 FOOTAGE LOCATION      UNIT LETTER      SECTION      TOWNSHIP      RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing



Hole Size 11"      Casing Size 8.625"  
 Cemented with 575 sx      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement SURFACE      Method Determined CIRC. 112 SX

Intermediate Casing

Hole Size \_\_\_\_\_      Casing Size \_\_\_\_\_  
 Cemented with \_\_\_\_\_ sx      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement \_\_\_\_\_      Method Determined \_\_\_\_\_

Production Casing

Hole Size 7"      Casing Size 5.5"  
 Cemented with 1350 sx      or \_\_\_\_\_ ft<sup>3</sup>  
 Top of Cement SURFACE      Method Determined CIRC. 241 SX  
 Total Depth 6925'

Injection Interval

5692 feet to 6750'

(not to scale)

(Perforated or Open Hole, indicate which)



INJECTION WELL DATA SHEETTubing Size 2-3/8" J-55 4.7# Lining Material INTERNAL PLASTIC COATType of Packer LOCK SET INJECTIONPacker Setting Depth 5642'

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

Additional Data1 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, & DRINKARD3 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 (3671'), SAN ANDRES (3897'), PADDOCK (5231')UNDER: ABO (6768')

**APACHE CORPORATION  
 WEST BLINEBRY DRINKARD UNIT 180 & 182  
 SEC. 17, T. 21 S., R. 37 E.  
 LEA COUNTY, NM**

I. Goal is to inject water into the Blinebry-Drinkard interval, which is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900). The wells 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 15 subsequent WFX approvals. This is an active water flood. Forty-three water injectors are active or new in the Unit.

WBDU	API	17-21s-37e	injection interval	proposed packer setting depth	TD
180	30-025-43529	784 FSL & 2061 FEL	5644' - 6700'	5594'	6856'
182	30-025-43530	1834 FNL & 1980 FEL	5692' - 6750'	5642'	6925'

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) Unit Size: 2,480 acres Unit Numbers: 300341 & NMNM-120042X  
 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

WBDU	fee lease	closest lease boundary	closest unit boundary
180	Percy Hardy	536'	784'
182	W W Weatherly 1	514'	660'

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 WEST BLINEBRY DRINKARD UNIT 180 & 182  
 SEC. 17, T. 21 S., R. 37 E.  
 LEA COUNTY, NM

A. (2) Casing and cement are:

well and casing O. D.	pounds per foot	depth set	hole O. D.	sacks cement	TOC	how TOC determined
WBDU 180						
8.625"	24	1288'	11"	575	GL	circ. 104 sx
5.5"	17	6856'	7.875"	1870	GL	circ. 117 sx
WBDU 182						
8.625"	24	1296'	11"	575	GL	circ. 112 sx
5.5"	17	6925'	7"	1350	GL	circ. 241 sx

Mechanical integrity of the casing will be assured by hydraulically pressure testing to 500 psi for 30 minutes.

A. (3) Tubing will be 2-3/8", J-55, 4.7#, and internally plastic coated.

A. (4) Arrowset 2-3/8" nickel-plated packers will be set as follows:

	perfs	proposed packer & tubing setting depth
WBDU 180	5644' - 6700'	5594'
WBDU 182	5692' - 6750'	5642'

B. (1) Injection zone will be the Blinebry-Drinkard carbonates. The interval is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool. Estimated fracture gradient is  $\approx 0.56$  psi per foot.

B. (2) Wells are cased holes. See preceding table for perforation information.

B. (3) Wells were drilled (2017) as injection wells.

B. (4) Wells will be perforated (see preceding table) with 2 shots per foot. Shot diameter = 0.40".

APACHE CORPORATION  
 WEST BLINEBRY DRINKARD UNIT 180 & 182  
 SEC. 17, T. 21 S., R. 37 E.  
 LEA COUNTY, NM

B. (5) Next higher oil or gas zone in the area of review is the San Andres. Its bottom is at  $\leq 5163'$ . Injection will occur in the Blinebry-Drinkard. Shallowest perforation will be 5644'.

Next lower oil or gas zone in the area of review is the Abo. Its top is at  $\geq 6715'$ . There will be  $\geq 15'$  of vertical separation between the deepest perforation and the top of the Abo.

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 16 subsequent WFX approvals. Closest Unit boundary is  $\geq 660'$ .

V. Exhibit B shows all 73 existing wells within a half-mile radius, regardless of depth. Exhibit C shows all 778 existing wells (575 oil or gas wells + 100 P&A wells + 79 injection or disposal wells + 24 water supply wells + 1 brine supply well) within a two-mile radius.

Exhibit D shows all leases (only BLM, fee, and State) 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 180 Area of Review (T 21 S, R 37 E)	Lessor	Lease	Lessee(s) of Record	Blinebry, Tubb, &/or Drinkard operator
NWSW Sec. 16	NMSLO	B0-0085-0016	Apache	Apache
SWSW Sec. 16	NMSLO	B0-8105-0004	Apache	Apache
SENE Sec. 17	fee	Mittie Weatherly	Chevron	N/A
SWNE, NWSE, & NESW Sec. 17	fee	W W. Weatherly	Apache	Apache
SENE & NESE Sec. 17	BLM	NMLC-032096A	Apache & Chevron	Apache
W2SW4 Sec. 17	BLM	NMNM-125794	Apache, Chevron, & ConocoPhillips	Upland
SESW & S2SE4 Sec. 17	fee	Hardy Blinebry	Apache	Apache
E2NE4 Sec. 20	fee	A M York & York Gas Com	Chevron	Chevron

**APACHE CORPORATION  
WEST BLINEBRY DRINKARD UNIT 180 & 182  
SEC. 17, T. 21 S., R. 37 E.  
LEA COUNTY, NM**

NWNE & NENW Sec. 20	fee	W E Lee	Upland	Upland
NWNW Sec. 20	BLM	NMLC-032591B	Sheridan	Sheridan
SENW Sec. 20	fee	J G Randle A	Chevron	Chevron
SWNE Sec. 20	fee	J G Randle	Chevron	Chevron
NWNW Sec. 21	fee	Weatherly	Stephens & Johnson	Stephens & Johnson

Aliquot Parts in 182 Area of Review (T 21 S, R 37 E)	Lessor	Lease	Lessee(s) of Record	Blinebry, Tubb, &/or Drinkard operator
SESW & S2SE4 Sec. 8	BLM	NMNM-090161	Apache & Chevron	Apache
W2NW4 Sec. 16	NMSLO	B0-1557-0001	Occidental Permian	Apache
W2NW4 Sec. 16	NMSLO	B0-1557-0002	Apache	Apache
NWSW Sec. 16	NMSLO	B0-0085-0016	Apache	Apache
E2NE4 & NESE Sec. 17	BLM	NMLC-032096A	Apache & Chevron	Apache
NWNE Sec. 17	fee	W W Weatherly	Apache	Apache
NW4 Sec. 17	fee	Mittie Weatherly	Chevron	N/A
SWNE, NWSE, & NESW Sec. 17	fee	W W Weatherly	Apache	Apache
NWSW Sec. 17	BLM	NMNM-125794	Apache, Chevron, & ConocoPhillips	Upland
SESW & S2SE4 Sec. 17	fee	Hardy Blinebry	Apache	Apache

VI. Seventy-three existing wells are within a half-mile radius. Forty-three of the wells penetrated, or will penetrate, the Blinebry (top  $\geq 5644'$ ). The penetrators include 33 oil wells, 8 water injection wells, 1 water supply well, and 1 P&A well. A table abstracting the well construction details and histories of the penetrators is in Exhibit F. A diagram of the P&A well is also in Exhibit F.

VII. 1. Average injection rate will be  $\approx 2,500$  bwpd per well.  
Maximum injection rate will be  $\approx 3,000$  bwpd per well.

2. System will be closed. The wells will tie into the existing Unit pipeline system. It is a branched injection system with centrifugal injection pumps.

APACHE CORPORATION  
 WEST BLINEBRY DRINKARD UNIT 180 & 182  
 SEC. 17, T. 21 S., R. 37 E.  
 LEA COUNTY, NM

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  $\approx$ 4,000' 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 46,401,686 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 123 active or new oil wells in the Unit. It is the goal of the project to increase production.



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 WEST BLINEBRY DRINKARD UNIT 180 & 182  
 SEC. 17, T. 21 S., R. 37 E.  
 LEA COUNTY, NM

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, ≈1057' 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 108 Blinebry, 126 Tubb, and 154 Drinkard active or new injection wells in the state. The West Blinebry Drinkard Unit shares its east border with Apache's Northeast Drinkard Unit. Three similar water floods (East Blinebry Drinkard Unit, 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:

	180	182
Quaternary	0	0
Rustler	1244	1236
Tansill	2477	2487
Yates	2608	2613
Seven Rivers	2873	2872
Queen	3405	3398
Grayburg	3684	3671
San Andres	3910	3897
Glorieta	5144	5164
Paddock	5211	5231
Blinebry	5644	5677
top perf	5644	5692
Tubb	6135	6163
Drinkard	6450	6500
bottom perf	6700	6750
Abo	6715	6768
TD	6856	6925

According to Office of the State Engineer records (Exhibit G), five fresh water wells are within a mile radius, two of which (CP 01026 POD and CP 00447 POD 1) were sampled (Exhibit G). The Ogallala is ≥2-1/2 miles northeast.

No existing underground drinking water sources are below the injection interval within a mile radius.

There will be thousands of feet 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 or will be injected (203 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 wells will be stimulated with acid to clean out scale or fill.

X. GR/CNL, resistivity, density, and CBL logs are planned.

XI. Five fresh water wells are within a mile. Analyses from two of the five are in Exhibit G.

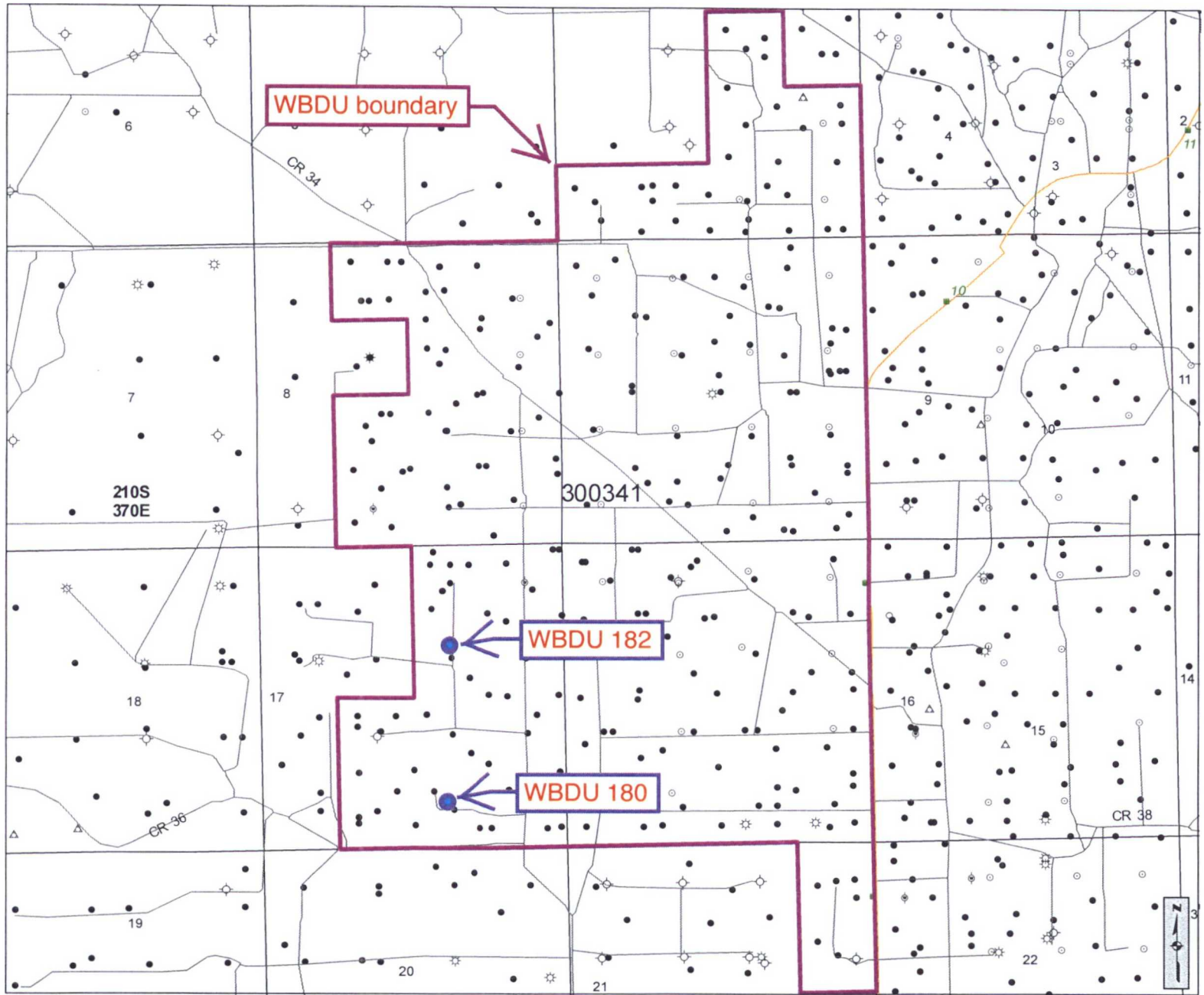
XII. Apache is not aware of any geologic or engineering data that may indicate the injection interval is in hydrologic connection with any underground sources of water. Closest Quaternary faults are  $\approx$ 109 miles southwest (Exhibit H). There are 108 Blinebry, 126 Tubb, and 154 Drinkard active or new injection wells in New Mexico. 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, and 965.

XIII. A legal ad (see Exhibit I) was published on May 24, 2017. Notice (this application) has been sent (Exhibit J) to the surface owner (Chevron USA Inc.), BLM Unit Office of Record (Carlsbad), offset Blinebry, Tubb, and Drinkard operators (Chevron, Sheridan, Stephens & Johnson, and Upland), lessees (Chevron, ConocoPhillips, Occidental Permian, Sheridan, Stephens & Johnson, and Upland), and operating rights holders (Brown Mitchell Properties, Chevron USA,

APACHE CORPORATION  
WEST BLINEBRY DRINKARD UNIT 180 & 182  
SEC. 17, T. 21 S., R. 37 E.  
LEA COUNTY, NM

PAGE 8

ConocoPhillips Co., John H. Hendrix Corp., Oxy USA WTP LP, Penroc, Sandridge,  
Sheridan, and Six Aeches Co.).



**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**

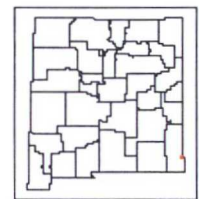
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 Universal Transverse Mercator Projection, Zone 13  
 1983 North American Datum

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 logic@slo.state.nm.us

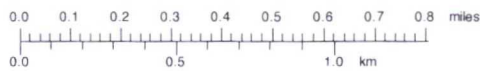
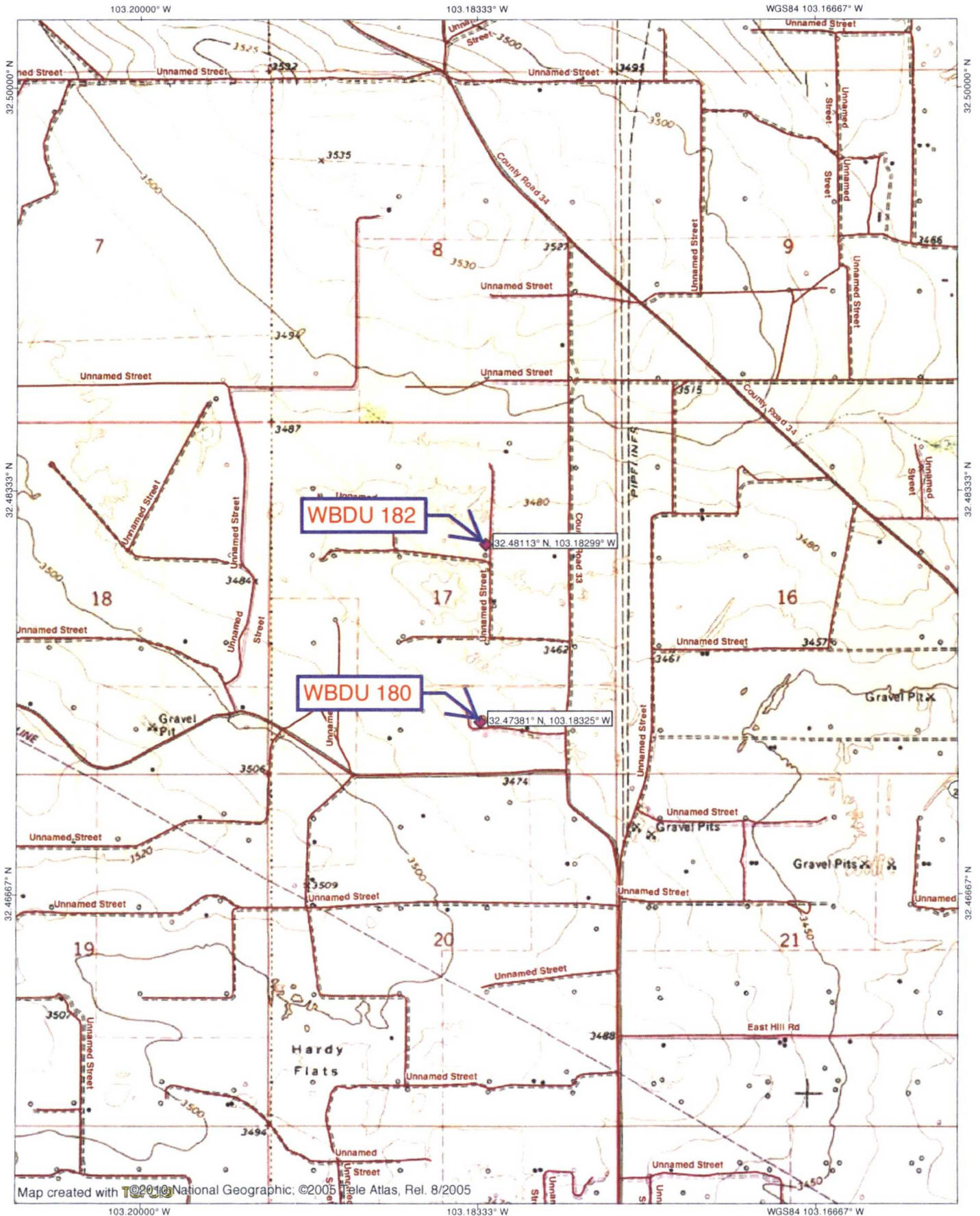
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**EXHIBIT A**



www.nmstatelands.org





**EXHIBIT A**

TN MN  
6.5°  
05/22/17

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: (505) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025		2 Pool Code 22900		3 Pool Name EUNICE, BLI-TU-DR, NORTH					
4 Property Code 37346		5 Property Name WEST BLINEBRY DRINKARD UNIT						6 Well Number 180	
7 GRID NO 873		8 Operator Name APACHE CORPORATION						9 Elevation 3478'	
10 Surface Location									
UL or lot no 0	Section 17	Township 21S	Range 37E	Lot Idn	Feet from the 784	North/South line SOUTH	Feet from the 2061	East/West line EAST	County LEA
11 Bottom Hole Location If Different From Surface									
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 40		13 Joint or Infill		14 Consolidation Code		15 Order No			

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

<p>16</p> <p>GEODETIC DATA NAD 27 GRID - NM EAST</p> <p>SURFACE LOCATION N 537958 9 - E 854829 7</p> <p>LAT 32 47370155 N LONG 103 18278019 W</p> <p>LAT= 32°28'25.3256" N LONG= 103°10'58.0087" W</p> <p>CORNER DATA NAD 27 GRID - NM EAST</p> <p>A. CALCULATED CORNER N 537145 2 - E 851619 3</p> <p>B. FOUND BRASS CAP "1911" N. 539785 9 - E 851590 3</p> <p>C. FOUND BRASS CAP "1911" N 542424 8 - E 851561 6</p> <p>D. FOUND BRASS CAP "1911" N 542451 6 - E 854200 7</p> <p>E. FOUND BRASS CAP "1911" N 542476 3 - E 856839 2</p> <p>F. CALCULATED CORNER N 537194 4 - E 856899 7</p>	<p>17 OPERATOR CERTIFICATION</p> <p>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.</p> <p>Sorina L Flores 1/3/2017</p> <p>Signature Date</p> <p>SORINA L FLORES</p> <p>Printed Name</p> <p>soina.flores@apachecorp.com</p> <p>E-mail Address</p>

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1611390

EXHIBIT A

District I  
1625 N French Dr., Hobbs, NM 88240  
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State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr  
Santa Fe, NM 87505

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number <b>30-025-</b>		2 Pool Code <b>22900</b>		3 Pool Name <b>EUNICE, BLI-TU-DR, NORTH</b>					
4 Property Code <b>37346</b>		5 Property Name <b>WEST BLINEBRY DRINKARD UNIT</b>			6 Well Number <b>182</b>				
7 GRID NO <b>873</b>		8 Operator Name <b>APACHE CORPORATION</b>			9 Elevation <b>3479'</b>				
10 Surface Location									
UL or lot no <b>G</b>	Section <b>17</b>	Township <b>21S</b>	Range <b>37E</b>	Lot Idn	Feet from the <b>1834</b>	North/South line <b>NORTH</b>	Feet from the <b>1980</b>	East/West line <b>EAST</b>	County <b>LEA</b>
11 Bottom Hole Location If Different From Surface									
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres <b>40</b>		13 Joint or Infill		14 Consolidation Code		15 Order No			

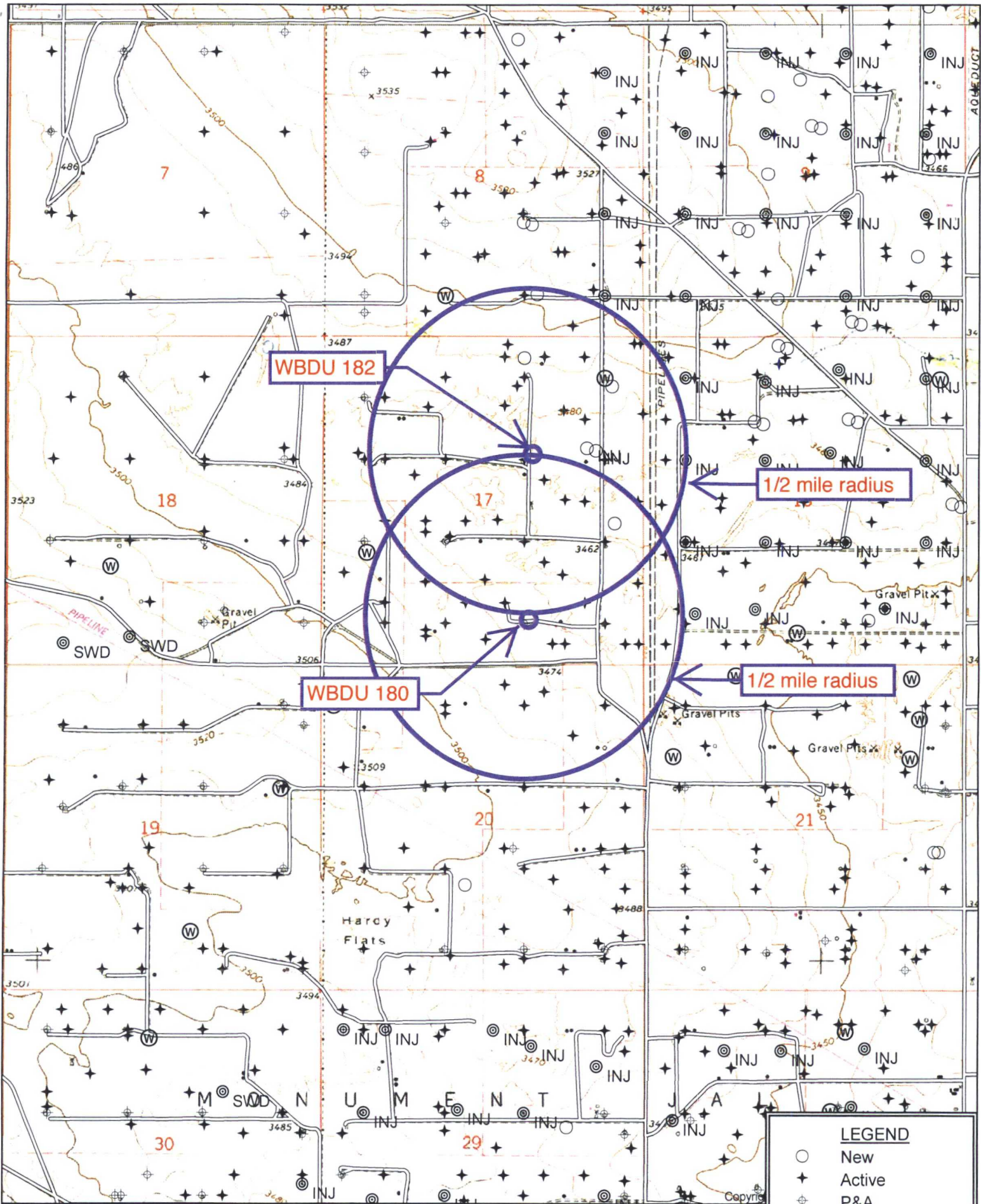
No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division

<p>16 (C) <b>GEODETIC DATA</b> NAD 27 GRID - NM EAST</p> <p><b>SURFACE LOCATION</b> N 540624 2 - E 854880 5</p> <p>LAT 32 48 10 25 24 N LONG 103 18 25 22 21 W</p> <p>LAT= 32 28 51 69 09" N LONG= 103 10 57 08 00" W</p> <p><b>CORNER DATA</b> NAD 27 GRID - NM EAST</p> <p>A CALCULATED CORNER N 537145 2 - E 851619 3</p> <p>B FOUND BRASS CAP "1911" N 539785 9 - E 851590 3</p> <p>C FOUND BRASS CAP "1911" N 542424 8 - E 851561 6</p> <p>D FOUND BRASS CAP "1911" N 542451 6 - E 854200 7</p> <p>E FOUND BRASS CAP "1911" N 542476 3 - E 856839 2</p> <p>F CALCULATED CORNER N 537194 4 - E 856899 7</p>		<p>17 <b>OPERATOR CERTIFICATION</b> 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.</p> <p><i>Sorina L Flores</i> 1/13/2017 Signature Date</p> <p><b>SORINA L. FLORES</b> Printed Name</p> <p>sorina flores@apachecorp.com E-mail Address</p>
	<p>18 <b>SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</p> <p><b>11-29-2016</b> Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p><b>19680</b> Certificate Number</p>	

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1611389

**EXHIBIT A**





WBDU 182

WBDU 180

1/2 mile radius

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	T21S-R37E-UNIT-SECTION	TVD	ZONE	FEET FROM WBDU 180
3002506653	Apache	WBDU 086	P&A	O-17	6650	Eunice, Bli-Tu-Dr, N	168
3002523795	Apache	Percy Hardy 004	O	O-17	3850	Penrose Skelly, Grayburg	303
3002539710	Apache	WBDU 120	O	O-17	7219	Eunice, Bli-Tu-Dr, N	686
3002536477	Apache	Percy Hardy 009	O	O-17	4350	Penrose Skelly, Grayburg	731
3002539279	Apache	WBDU 119	O	K-17	6900	Eunice, Bli-Tu-Dr, N	835
3002539986	Apache	WBDU 121	O	P-17	6970	Eunice, Bli-Tu-Dr, N	884
3002523858	Apache	Hardy 002	O	N-17	3887	Penrose Skelly, Grayburg	885
3002536659	Apache	W W Weatherly 008	O	J-17	4215	Penrose Skelly, Grayburg	958
3002539172	Apache	WBDU 123	O	J-17	7200	Eunice, Bli-Tu-Dr, N	973
3002523831	Apache	Percy Hardy 005	O	P-17	3849	Penrose Skelly, Grayburg	1113
3002527199	Upland	W E Lee 007	O	B-20	4200	Penrose Skelly, Grayburg	1147
3002506645	Apache	WBDU 072	O	J-17	6637	Eunice, Bli-Tu-Dr, N	1190
3002506643	Apache	WBDU 087	O	N-17	6659	Eunice, Bli-Tu-Dr, N	1201
3002511520	Upland	W E Lee 002	O	B-20	6658	Tubb (Oil)	1309
3002506652	Apache	WBDU 085	O	P-17	6657	Eunice, Bli-Tu-Dr, N	1434
3002509920	Upland	W E Lee 005	O	B-20	5985	Blinebry (Oil)	1458
3002539709	Apache	WBDU 118	O	J-17	7200	Eunice, Bli-Tu-Dr, N	1593
3002539989	Apache	WBDU 139	O	N-17	6970	Eunice, Bli-Tu-Dr, N	1607
3002538686	Apache	Hardy 004	O	N-17	4525	Penrose Skelly, Grayburg	1625
3002539171	Apache	WBDU 122	O	K-17	6962	Eunice, Bli-Tu-Dr, N	1676
3002506644	Sun	W W Weatherly 001	P&A	K-17	3815	Penrose Skelly, Grayburg	1685
3002506647	Apache	WBDU 074	O	K-17	6646	Eunice, Bli-Tu-Dr, N	1691

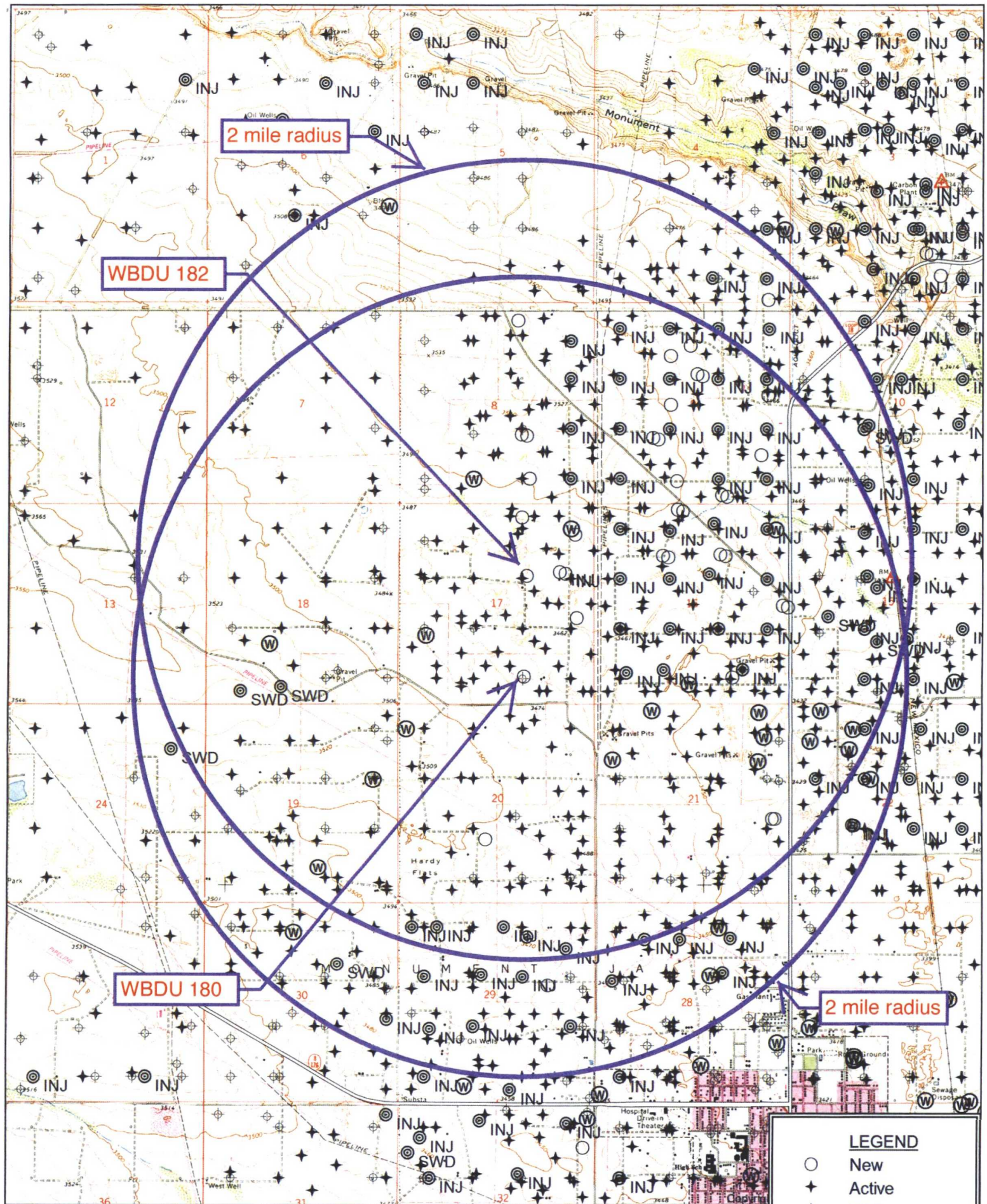
3002524178	Apache	W W Weatherly 006	O	K-17	3840	Penrose Skelly, Grayburg	1746
3002536056	Apache	Percy Hardy 010	O	P-17	4350	Penrose Skelly, Grayburg	1820
3002506637	Apache	Lockhart A 17 002	O	I-17	6630	Penrose Skelly, Grayburg	1853
3002509923	Upland	W E Lee 001	O	C-20	3814	Penrose Skelly, Grayburg	1880
3002509922	Upland	W E Lee 003	O	C-20	6674	Tubb (Oil)	1990
3002539958	Apache	WBDU 126	O	P-17	6920	Eunice, Bli-Tu-Dr, N	2016
3002539280	Apache	WBDU 129	O	P-17	7120	Eunice, Bli-Tu-Dr, N	2017
3002538411	Apache	WBDU 068	O	H-17	6905	Eunice, Bli-Tu-Dr, N	2027
3002509924	Chevron	A M York 002	O	A-20	6637	Blinebry (Oil)	2040
3002538376	Apache	W W Weatherly 010	O	K-17	4167	Penrose Skelly, Grayburg	2075
3002537945	Chevron	A M York 003	O	A-20	4326	Penrose Skelly, Grayburg	2130
3002536159	Apache	Lockhart A 17 007	O	I-17	4100	Penrose Skelly, Grayburg	2136
3002542496	Apache	WBDU 221	O	I-17	Plan 7200	Eunice Bli-Tu-Dr, N	2172
3002506641	Upland	Lockhart 002	O	M-17	6690	Blinebry (Oil)	2193
3002539988	Apache	WBDU 136	O	K-17	6950	Eunice, Bli-Tu-Dr, N	2195
3002527123	Upland	A M Lockhart 003	O	M-17	4202	Penrose Skelly, Grayburg	2198
3002536658	Apache	W W Weatherly 007	O	G-17	4234	Penrose Skelly, Grayburg	2220
3002537364	Apache	State Land 15 007	O	M-16	4402	Penrose Skelly, Grayburg	2449
3002506646	Apache	WBDU 073	O	G-17	6677	Eunice, Bli-Tu-Dr, N	2510
3002537864	Apache	State DA 014	O	L-16	4375	Penrose Skelly, Grayburg	2593
3002539606	Apache	State Land 15 019	O	M-16	4404	Penrose Skelly, Grayburg	2616
3002506640	Upland	Lockhart 001	O	L-17	6690	Blinebry (Oil)	2666

API	WHO	WELL	TYPE WELL	T21S-R37E- UNIT-SECTION	TVD	ZONE	FEET FROM WBDU 182
3002506646	Apache	WBDU 073	O	G-17	6677	Eunice, Bli-Tu-Dr, N	177
3002536658	Apache	W W Weatherly 007	O	G-17	4234	Penrose Skelly, Grayburg	625
3002539278	Apache	WBDU 117	O	B-17	7000	Eunice, Bli-Tu-Dr, N	793
3002540429	Apache	WBDU 144H	O	B-17	6673	Eunice, Bli-Tu-Dr, N	1042
3002538411	Apache	WBDU 068	O	H-17	6905	Eunice, Bli-Tu-Dr, N	1045
3002543229	Apache	WBDU 145	I	H-17	6865	Eunice, Bli-Tu-Dr, N	1046
3002536101	Apache	Lockhart A 17 006	O	H-17	4150	Penrose Skelly, Grayburg	1137
3002523717	Apache	W W Weatherly 005	O	B-17	3875	Penrose Skelly, Grayburg	1148
3002539709	Apache	WBDU 118	O	J-17	7200	Eunice, Bli-Tu-Dr, N	1218
3002506635	Chevron	Mittie Weatherly 001	O	F-17	6635	Penrose Skelly, Grayburg	1268
3002536159	Apache	Lockhart A 17 007	O	I-17	4100	Penrose Skelly, Grayburg	1336
3002506638	Apache	WBDU 066	O	H-17	6645	Eunice, Bli-Tu-Dr, N	1376
3002524178	Apache	W W Weatherly 006	O	K-17	3840	Penrose Skelly, Grayburg	1486
3002506645	Apache	WBDU 072	O	J-17	6637	Eunice, Bli-Tu-Dr, N	1496
3002541869	Apache	W W Weatherly 001C	O	B-17	Plan 7250	Wantz, Abo	1503
3002506642	Apache	WBDU 065	O	B-17	6684	Eunice, Bli-Tu-Dr, N	1522
3002538377	Apache	W W Weatherly 012	O	B-17	4150	Penrose Skelly, Grayburg	1542
3002537188	Chevron	Mittie Weatherly 008	O	C-17	4326	Penrose Skelly, Grayburg	1687
3002506649	Chevron	Mittie Weatherly 003	O	C-17	6651	Penrose Skelly, Grayburg	1704
3002539733	Apache	WBDU 109	O	B-17	7200	Eunice, Bli-Tu-Dr, N	1729
3002506639	Apache	Lockhart A 17 004	G	A-17	6770	Eunice, Bli-Tu-Dr, N	1781

3002537379	Apache	Lockhart A 17 010	O	A-17	4360	Penrose Skelly, Grayburg	1799
3002506647	Apache	WBDU 074	O	K-17	6646	Eunice, Bli-Tu-Dr, N	1844
3002539038	Chevron	Mittie Weatherly 009	O	F-17	4321	Penrose Skelly, Grayburg	1857
3002536659	Apache	W W Weatherly 008	O	J-17	4215	Penrose Skelly, Grayburg	1863
3002542496	Apache	WBDU 221	O	I-17	Plan 7200	Eunice, Bli-Tu-Dr, N	1897
3002506644	Sun	W W Weatherly 001	P&A	K-17	3815	Penrose Skelly, Grayburg	1950
3002539988	Apache	WBDU 136	O	K-17	6950	Eunice, Bli-Tu-Dr, N	2002
3002506637	Apache	Lockhart A 17 002	O	I-17	6630	Penrose Skelly, Grayburg	2027
3002538206	Apache	WBDU 071	O	A-17	6905	Eunice, Bli-Tu-Dr, N	2035
3002538204	Apache	WBDU 069	O	I-17	6829	Eunice, Bli-Tu-Dr, N	2054
3002538376	Apache	W W Weatherly 010	O	K-17	4167	Penrose Skelly, Grayburg	2112
3002539172	Apache	WBDU 123	O	J-17	7200	Eunice, Bli-Tu-Dr, N	2117
3002540274	Apache	WBDU 124	O	P-8	7300	Eunice, Bli-Tu-Dr, N	2156
3002539279	Apache	WBDU 119	O	K-17	6900	Eunice, Bli-Tu-Dr, N	2200
3002506648	Chevron	Mittie Weatherly 002	G	E-17	6650	Eunice, SA, N (Gas)	2257
3002535709	Apache	State C Tract 12 011	O	E-16	4200	Penrose Skelly, Grayburg	2366
3002535745	Chevron	Mittie Weatherly 007	O	D-17	7600	Penrose Skelly, Grayburg	2397
3002536115	Apache	State C Tract 12 012	O	E-16	4125	Penrose Skelly, Grayburg	2406
3002536617	Apache	State DA 009	O	L-16	4350	Penrose Skelly, Grayburg	2465
3002506435	Apache	Hawk Federal B 1 012	O	O-8	6722	Penrose Skelly, Grayburg	2468
3002538205	Apache	WBDU 070	O	A-17	6925	Eunice, Bli-Tu-Dr, N	2492
3002523795	Apache	Percy Hardy 004	O	O-17	3850	Penrose Skelly, Grayburg	2502

3002506640	Upland	Lockhart 001	O	L-17	6690	Blinebry (Oil)	2532
3002542493	Apache	WBDU 185	O	O-8	Plan 7200	Eunice, Bli-Tu-Dri, N	2539
3002536661	Apache	Lockhart A 17 009	O	A-17	4350	Penrose Skelly, Grayburg	2580
3002506650	Chevron	Mittie Weatherly 004	O	E-17	3945	Penrose Skelly, Grayburg	2588
3002523858	Apache	Hardy 002	O	N-17	3887	Penrose Skelly, Grayburg	2649





WBDU 182

2 mile radius

WBDU 180

2 mile radius

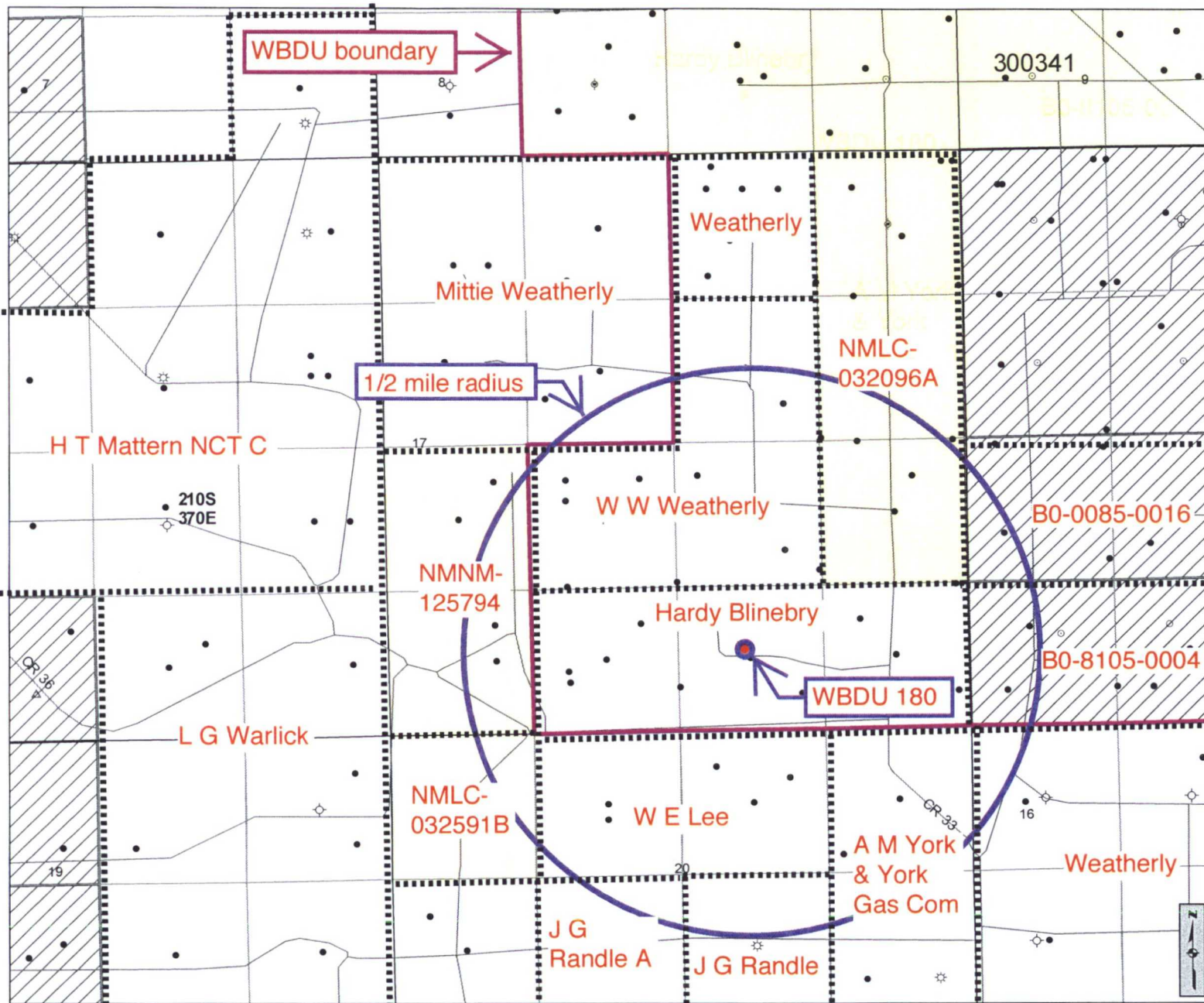
- LEGEND**
- New
  - ✦ Active
  - ⊕ P&A
  - ⊙ INJ
  - ⊙ SWD
  - ⊙ Water



Quad: EUNICE  
Scale: 1 inch = 3,278 ft.

EXHIBIT C





- Cartographic Features**
- County Boundaries
  - County Seats
  - City, Town or Village
  - SLO District Offices
  - SLO District Boundary
  - Hwy Mileposts
  - Interstate
  - 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
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  - 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**

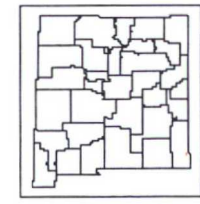
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Miles  
Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

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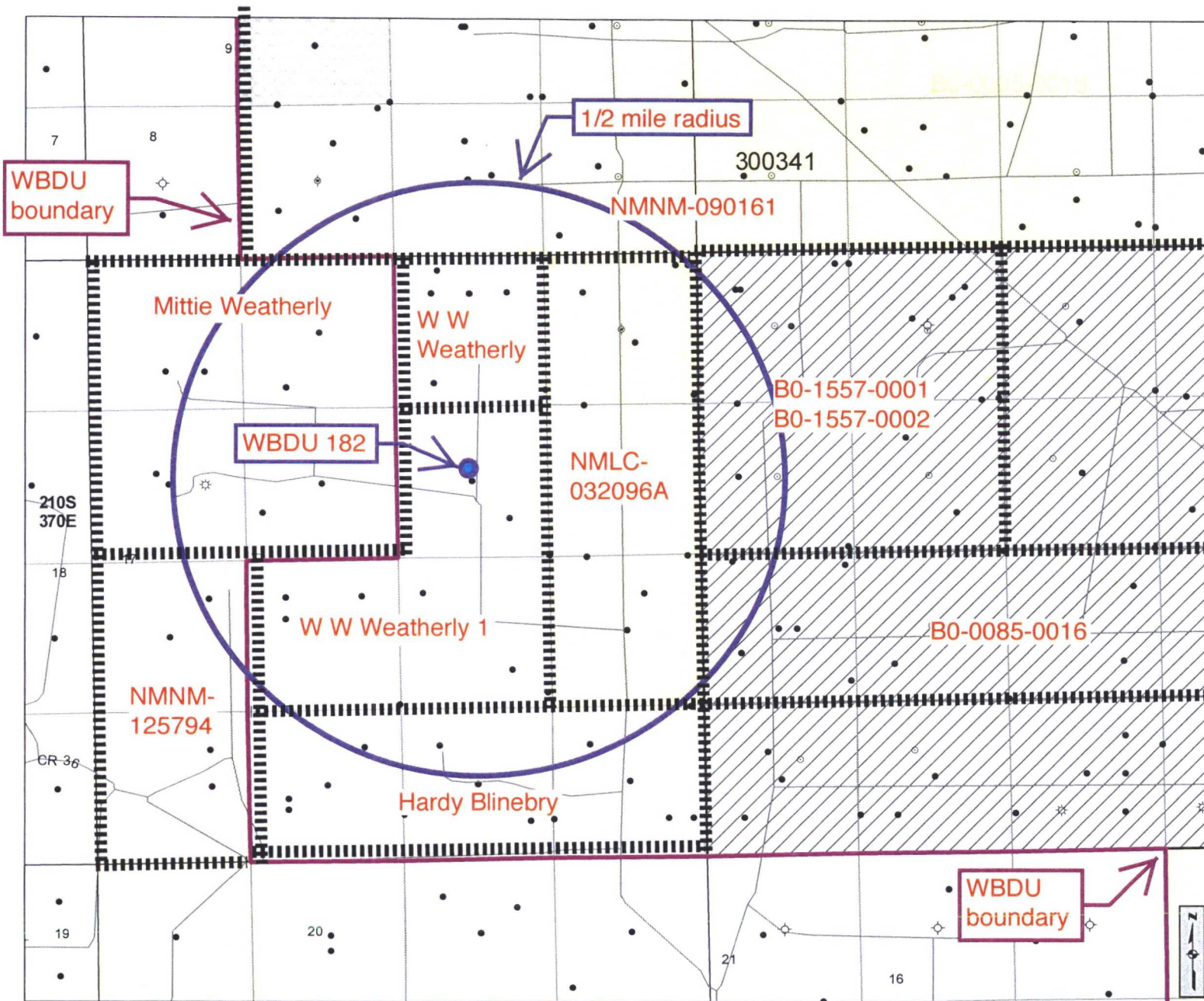
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**EXHIBIT D**



www.nmstatelands.org





**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**

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- 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**

0.0 0.03 0.07 0.14 0.21 0.28 Miles

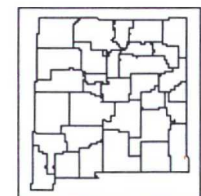
Universal Transverse Mercator Projection, Zone 13  
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Land Office Geographic Information Center  
logic@slo.state.nm.us

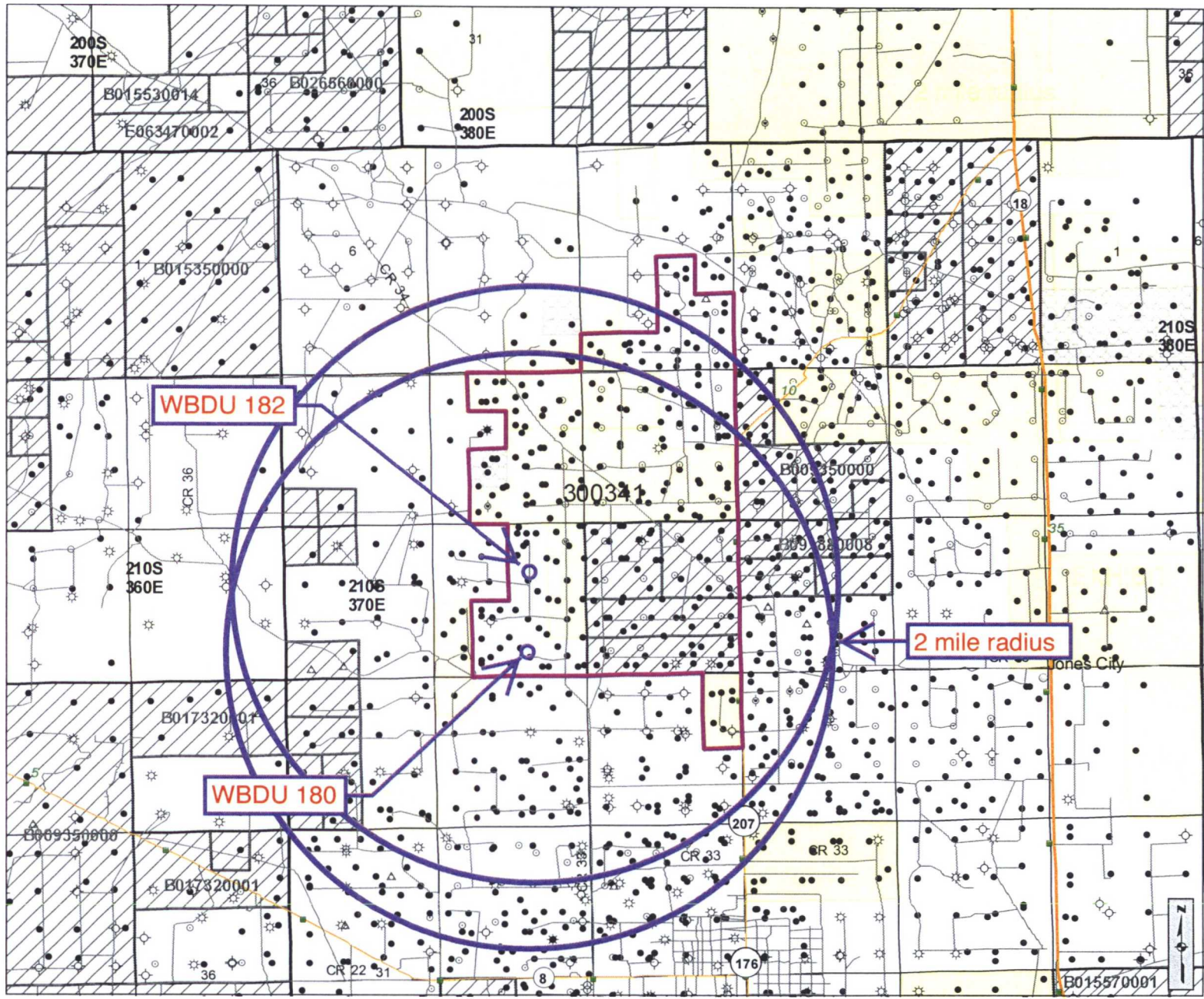
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**EXHIBIT D**



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- 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
  - NMOCID Order R-111-P
  - Potash Enclave Outline
- NMOCID 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 0.15 0.3 0.6 0.9 1.2 Miles

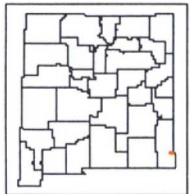
Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

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

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**EXHIBIT E**



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Sorted by distance from WBDU 180

WELL	SPUD	TVD	POOL	WELL-TYPE	HOLE O D	CASING O D	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 086	3/17/48	6650	Eunice, Bli-Tu-Dr, N	P&A	17 25	13 375	295	325 sx	GL	No report
30-025-06653					11	8 625	2800	1200 sx	No report	No report
O-17-21S-37E					7 875	5 5	6650	500 sx	No report	No report
WBDU 120	4/19/10	7219	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1292	650 sx	GL	Circ
30-025-39710					7 875	5 5	7219	1150 sx	GL	Circ
O-17-21S-37E										
WBDU 119	9/22/09	6900	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1265	650 sx	GL	Circ
30-025-39279					7 875	5 5	6900	1350 sx	GL	Circ
K-17-21S-37E										
WBDU 121	1/1/11	6970	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1300	665 sx	GL	Circ 95 sx
30-025-39986					7 875	5 5	6970	1370 sx	125	CBL
P-17-21S-37E										

Sorted by distance from WBDU 180

WBDU 123	5/21/10	7200	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1248	650 sx	GL	Circ
30-025-39172					7 875	5 5	7200	1150 sx	GL	Circ
J-17-21S-37E										
WBDU 072	7/25/47	6637	Eunice, Bli-Tu-Dr, N	I	13 375	10 75	337	300 sx	GL	Circ
30-025-06645					9 875	7 625	2844	1600 sx	GL	Circ
J-17-21S-37E					6 75	5 5	6639	550 sx	2500	Temp Survey
WBDU 087	11/23/49	6659	Eunice, Bli-Tu-Dr, N	I	17	13 375	194	300 sx	GL	Circ
30-025-06643					11 75	8 625	2848	1500 sx	No report	No report
N-17-21S-37E					7 875	5 5	6599	300 sx	5130	est
W E Lee 002	12/29/47	6658	Tubb (Oil)	O	16	12 5	190	250 sx	GL	Circ
30-025-11520					11	8 625	2634	850 sx	No report	No report
B-20-21S-37E					7 75	5 5	6577	625 sx	No report	No report

Sorted by distance from WBDU 180

WBDU 085	4/24/47	6657	Eunice, Bli-Tu-Dr, N	I	15 5	13 375	297	300 sx	No report	No report
30-025-06652					11	8 625	2814	1200 sx	No report	No report
P-17-21S-37E					7 875	5 5	6641	500 sx	No report	No report
W E Lee 005	3/27/61	5985	Blincy (Oil)	O	13 75	10 75	274	225 sx	GL	Circ
30-025-09920					9 875	7 625	2740	1000 sx	No report	No report
B-20-21S-37E					6 75	4 5	5985	325 sx	No report	No report
WBDU 118	5/4/10	7208	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1215	650 sx	GL	Circ
30-025-39709					7 875	5 5	7208	1400 sx	GL	Circ
J-17-21S-37E										
WBDU 139	2/18/11	6970	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1295	690 sx	GL	Circ 256 sx
30-025-39989					7 875	5 5	6976	1240 sx	184	CBL
N-17-21S-37E										

Sorted by distance from WBDU 180

WBDU 122	12/4/10	6962	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1477	665 sx	GL	Circ 187 sx
30-025-39171					7 875	5 5	6962	2100 sx	GL	Circ 78 sx
K-17-21S-37E										
WBDU 074	9/5/48	6646	Eunice, Bli-Tu-Dr, N	I	17	13 325	348	300 sx	GL	Circ
30-025-06647					12 25	9 625	2841	1600 sx	GL	Circ
K-17-21S-37E					8 75	5 5	6646	600sx	3800	No report
Lockhart A 17 002	3/26/47	6630	Penrose Skelly, Grayburg	O	17 5	13 375	195	200 sx	GL	Circ
30-025-06637					12 25	9 625	2538	450 sx	1364	Temp Survey
I-17-21S-37E					7 875	5 5	6629	500 sx	3510	Temp Survey
W E Lee 003	12/17/82	6674	Tubb (Oil)	O	17 25	13 625	235	175 sx	No report	No report
30-025-09922					12 25	8 625	2647	650 sx	No report	No report
C-20-21S-37E					7 875	5 5	6631	300 sx	No report	No report

Sorted by distance from WBDU 180

WBDU 126	1/11/11	6920	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1283	665 sx	GL	Circ 222 sx
30-025-39958					7 875	5 5	6920	1340 sx	GL	Circ 130 sx
P-17-21S-37E										
WBDU 129	4/28/10	7120	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1286	650 sx	GL	Circ to surface
30-025-39280					7 875	5 5	7120	1150 sx	GL	Circ to surface
P-17-21S-37E										
WBDU 068	7/14/07	6905	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1295	650 sx	GL	Circ
30-025-38411					7 875	5 5	6905	1350 sx	2660	CBL
H-17-21S-37E										
A M York 002	2/3/88	6637	Blinebry (Oil)	O	17 5	13 375	306	300 sx	GL	Circ
30-025-09924			Drinkard		12.25	9 625	2795	1000 sx	592	Temp Survey
A-20-21S-37E					8 75	7	6636	500 sx	3172	Temp Survey

Sorted by distance from WBDU 180

WBDU 221	Plan	6876	Eunice, Bl-Tu-Dr, N	I	11	8 625	1350	530 sx	GL	N/A
30-025-42496					7 875	5 5	6876	1000 sx	GL	N/A
I-17-21S-37E										
Lockhart 002	11/1/51	6690	Blnebry (Oil)	O	O H	10 75	304	150 sx	GL	Circ
30-025-06641					9 875	7 625	2788	1150 sx	GL	Circ
M-17-21S-37E					6 75	5 5	6600	200 sx	3450	Temp Survey
WBDU 136	1/22/11	6950	Eunice, Bl-Tu-Dr, N	O	12 25	8 625	1270	655 sx	GL	Circ 110 sx
30-025-39988					7 875	5 5	6950	1440 sx	GL	Circ 77 sx
K-17-21S-37E										
WBDU 073	10/13/47	6677	Eunice, Bl-Tu-Dr, N	O	13 75	10 75	363	300 sx	GL	No report
30-025-06646					9 625	7.625	2873	2000 sx	GL	No report
G-17-21S-37E					6 75	5 5	6655	550.sx	2500	Temp Survey

Sorted by distance from WBDU 180

Lockhart 001	5/23/51	6690	Blinebry (Oil)	O	No report	10 75	309	150 sx	GL	Circ
30-025-06640					No report	7 625	2800	1375 sx	GL	Circ
L-17-21S-37E					No report	5 5	6600	309 sx	No report	No report
WBDU 069	2/22/07	6829	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1303	600 sx	GL	Circ
30-025-38204					7 875	5 5	6875	1075 sx	440	CBL
I-17-21S-37E										
WBDU 182	4/16/17	6925	Eunice, Bli-Tu-Dr, N	I	11	8 625	1296	575 sx	GL	Circ 112 sx
30-025-43530					7	5 5	6925	1350 sx	GL	Circ 241 sx
G-17-21S-37E										



## Sorted by distance from WBDU 182

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O D	CASING O D	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 073	10/13/47	6677	Eunice, Bli-Tu-Dr, N	O	13 75	10 75	363	300 sx	GL	No report
30-025-06646					9 625	7 625	2873	2000 sx	GL	No report
G-17-21S-37E					6 75	5 5	6655	550 sx	2500	Temp Survey
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										
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										
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 BBLS
B-17-21S-37E					7 875	5 5	10657	515 sx	GL	Circ

Sorted by distance from WBDU 182

WBDU 068	7/14/07	6905	Eunice, Bl-Tu-Dr, N	O	12 25	8 625	1295	650 sx	GL	Circ
30-025-38411					7 875	5 5	6905	1350 sx	2660	CBL
H-17-21S-37E										
WBDU 145	2/17/17	6868	Eunice, Bl-Tu-Dr, N	I	11	8 625	1368	575 sx	GL	no report
30-025-43229					7 875	5 5	6865	1350 sx	86	CBL
H-17-21S-37E										
WBDU 118	5/4/10	7200	Eunice, Bl-Tu-Dr, N	O	12 25	8 625	1215	650 sx	GL	Circ
30-025-39709					7 875	5 5	7208	1400 sx	GL	Circ
J-17-21S-37E										
Mittie Weatherly -001	6/6/48	6635	Penrose Skelly, Grayburg	O	17 25	13 625	263	300 sx	GL	Circ
30-025-06635					11	8 625	2791	1000 sx	1740	Temp Survey
E-17-21S-37E					7 325	5 5	3670	100 sx	3390	CBL

Sorted by distance from WBDU 182

WBDU 066	7/7/47	6645	Eunice, Bli-Tu-Dr, N	O	17 5	13 375	222	200 sx	GL	Circ
30-025-06638					12	9 625	2529	500 sx	1513	Temp Survey
H-17-21S-37E					8 75	7	6629	500 sx	3740	CBL
					6 125	OH	6645	N/A	N/A	N/A
WBDU 072	7/25/47	6637	Eunice, Bli-Tu-Dr, N	O	13 38	10 75	337	300 sx	GL	Circ
30-025-06645					9.875	7 625	2844	1600 sx	GL	Circ
J-17-21S-37E					6 75	5 5	6639	550 sx	2500	Temp Survey
WBDU 065	11/16/51	6834	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	GL	Est
B-17-21S-37E					6 625	5 5	6592	300 sx	2600	Temp Survey
					no report	4 5	6821	210 sx	1765	CBL

Sorted by distance from WBDU 182

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 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 067	12/31/49	6770	Eunice, Bli-Tu-Dr, N	W	16	13 375	228	250 sx	GL	Circ
30-025-06639					12 5	9 625	2819	900 sx	675	Temp Survey
A-17-21S-37E					8 75	7	6767	650 sx	2830	CBL
WBDU 130	2/5/17	6950	Eunice, Bli-Tu-Dr, N	I	11	8 625	1392	575 sx	GL	no report
30-025-42495					7 875	5 5	6950	1350 sx	203	CBL
A-17-21S-37E										

Sorted by distance from WBDU 182

WBDU 074	9/5/48	6646	Eunice, Bli-Tu-Dr, N	I	17	13 325	348	300 sx	GL	Circ
30-025-06647					12 25	9 625	2841	1600 sx	GL	Circ
K-17-21S-37E					8 75	5 5	6646	600sx	3800	No report
WBDU 221	Plan	6876	Eunice, Bli-Tu-Dr, N	I	11	8 625	1350	530 sx	GL	N/A
30-025-42496					7 875	5 5	6876	1000 sx	GL	N/A
I-17-21S-37E										
WBDU 136	1/22/11	6950	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1270	655 sx	GL	Circ 110 sx
30-025-39988					7 875	5 5	6950	1440 sx	GL	Circ 77 sx
K-17-21S-37E										
Lockhart A 17 002	3/26/47	6630	Penrose Skelly, Grayburg	O	17 5	13 375	195	200 sx	GL	Circ
30-025-06637					12 24	9 625	2538	450 sx	1364	Temp Survey
I-17-21S-37E					7.875	5 5	6629	500 sx	3510	Temp Survey

Sorted by distance from WBDU 182

WBDU 071	3/17/07	6905	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1300	575 sx	GL	Circ
30-025-38206					7 875	5 5	6905	1150 sx	240	CBL
A-17-21S-37E										
WBDU 069	2/22/07	6829	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1303	600 sx	GL	Circ
30-025-38204					7 875	5 5	6875	1075 sx	440	CBL
I-17-21S-37E										
WBDU 123	5/21/10	7200	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1248	650 sx	GL	Circ
30-025-39172					7 875	5 5	7200	1150 sx	GL	Circ
J-17-21S-37E										
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										

Sorted by distance from WBDU 182

WBDU 119	9/22/09	6900	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1265	650 sx	GL	Circ
30-025-39279					7 875	5 5	6900	1350 sx	GL	Circ
K-17-21S-37E										
Mitte Weatherly 002	1/11/52	6650	Eunice, San Andres, N (Gas)	G	17	13 325	289	300 sx	GL	Circ
30-025-06648					11	8 625	2790	2000 sx	GL	Circ
E-17-21S-37E					7 875	5 5	6650	350 sx	4058	Temp Survey
Mitte Weatherly 007	1/30/02	7600	Penrose Skelly, Grayburg	O	12 75	8 625	1179	700 sx	GL	Circ 72 bbls
30-025-35745					7 875	5 5	7600	1735 sx	No report	No report
D-17-21S-37E										
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

-Sorted by distance from WBDU 182

WBDU 070	3/6/07	6925	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1302	575 sx	GL	Circ
30-025-38205					7 875	5 5	6925	1100 sx	245	CBL
A-17-21S-37E										
Lockhart 001	5/23/51	6690	Blinebry (Oil)	O	No report	10 75	309	150 sx	GL	Circ
30-025-06640					No report	7 625	2800	1375 sx	GL	Circ
L-17-21S-37E					No report	5 5	6600	309 sx	No report	No report
WBDU 185			Eunice, Bli-Tu-Dr, N	I	11	8 625	1375	440 sx	GL	no report
30-025-42493					7 875	5 5	7200	975 sx	GL	CBL
O-8-21S-37E										
WBDU 180	4/7/17	6856	Eunice, Bli-Tu-Dr, N	I	11	8 625	1288	570 sx	GL	Circ 104 sx
30-025-43529					7 875	5 5	6856	1870 sx	GL	Circ 117 sx
O-17-21S-37E										



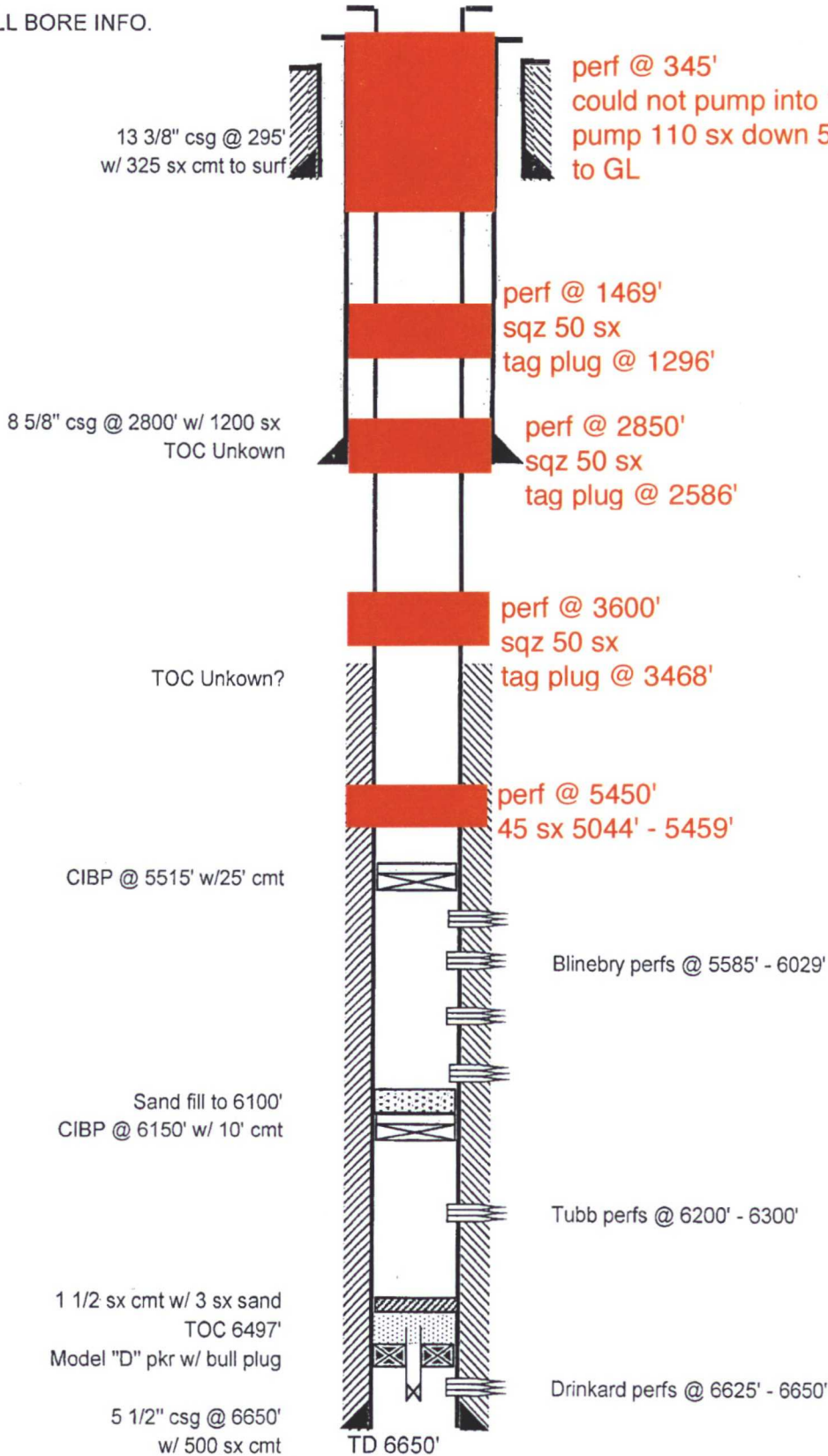
Sorted by distance from WBDU 182

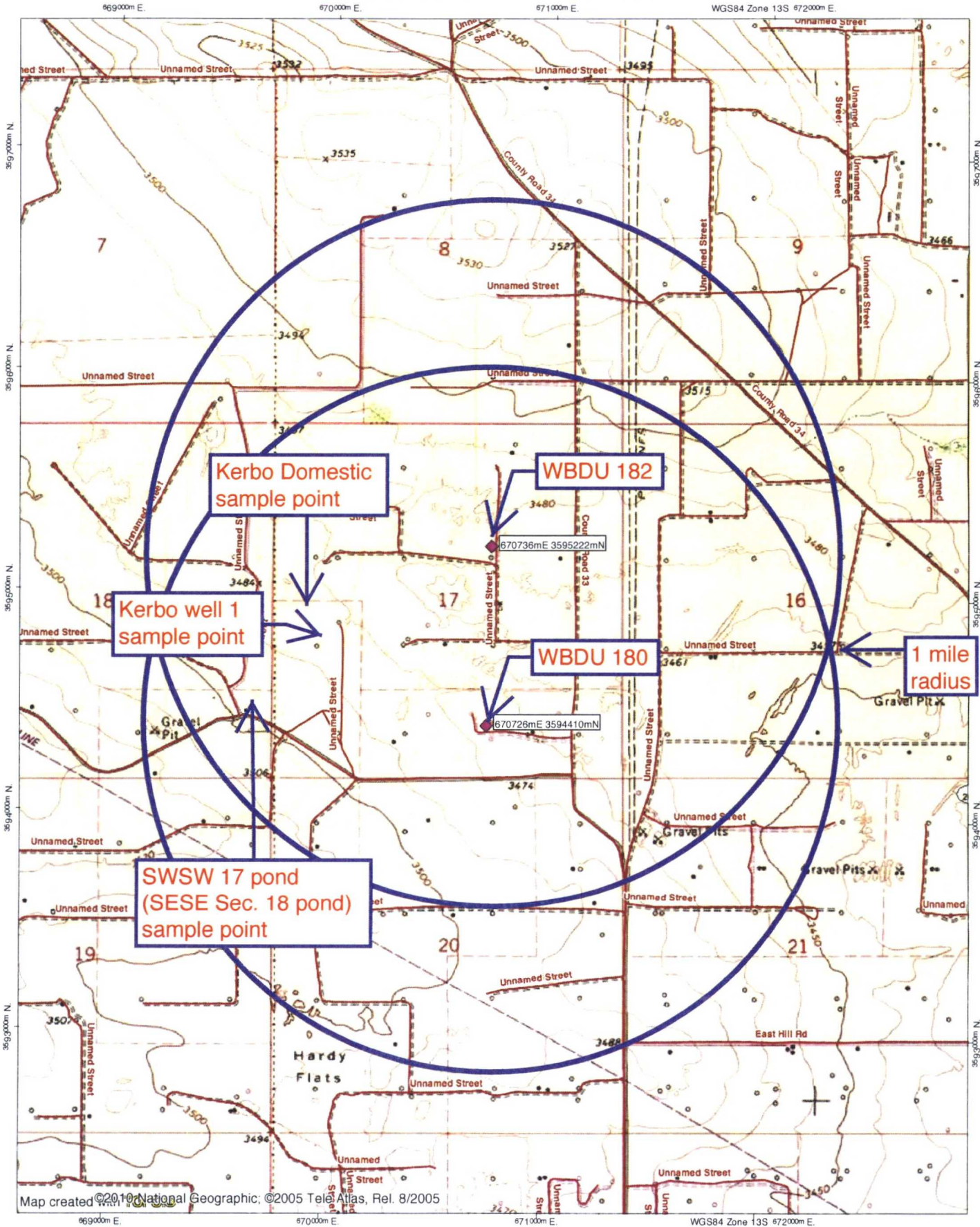
Mittie Weatherly 006	7/14/07	6800	Drinkard	O	12 25	8 625	410	325 sx	GL	Circ 89 sx
30-025-28395					7 875	5 5	4000	700 sx	GL	Circ 108 sx
E-17-21S-37E										
WBDU 122	12/4/10	6962	Eunice, Bli-Tu-Dr, N	O	12 25	8 625	1477	665 sx	GL	Circ 187 sx
30-025-39171					7 875	5 5	6962	2100 sx	GL	Circ 78 sx
K-17-21S-37E										
WBDU 058	7/5/72	6660	Eunice, Bli-Tu-Dr, N	I	17 5	13 375	326	300 sx	GL	Circ
30-025-06625					12	9 625	2902	1500 sx	1560	Temp Survey
E-16-21S-37E					8 75	7	6660	270 sx	1900	Temp Survey



WELL BORE INFO.

LEASE NAME	WBDU	O-17-21s-37e
WELL #	#86	spud 3-17-48
API #	30-025-06653	P&A 7-13-11
COUNTY	Lea	





Map created with TOPOI

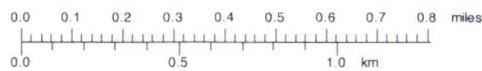
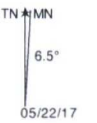


EXHIBIT G





# 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	Code	POD Sub-basin	County	Q 6	Q 16	Q 4	Q Sec	Tws	Rng	X	Y	Distance	Well Depth	Water Depth	Water Column
<u>CP 00895</u>		CP	LE	1	1	20	21S	37E		669957	3593956*	893	163		
<u>CP 01026 POD1</u>		CP	LE	1	1	3	17	21S	37E	669809	3594958	1068	167	95	72
<u>CP 00447 POD1</u>		CP	LE	2	4	4	18	21S	37E	669647	3594451*	1079	95		
<u>CP 00448 POD1</u>		CP	LE	2	4	4	18	21S	37E	669647	3594451*	1079	100		
<u>CP 00676</u>		CP	LE	4	4	18	21S	37E		669548	3594352*	1179	140	106	34
<u>CP 00985 POD1</u>		CP	LE	4	4	2	19	21S	37E	669595	3593453	1481	160		
<u>CC 01999 POD1</u>		CU		3	3	2	29	03N	36E	670385	3592502	1937	415	372	43
<u>CP 01245 POD1</u>		CP	LE	4	18	21S	37E			668676	3594411	2050	220		
<u>CP 00554</u>		CP	LE	2	2	16	21S	37E		672744	3595610*	2347	80	70	10
<u>CP 00729 POD1</u>		CP	LE	4	1	3	15	21S	37E	673259	3594711*	2550	8015		
<u>CP 01141 POD3</u>		CP	LE				15	21S	37E	673520	3594272	2797	40		
<u>CP 01141 POD2</u>		CP	LE				15	21S	37E	673543	3594250	2821	40		
<u>CP 01575 POD1</u>		CP	LE	1	2	1	22	21S	37E	673544	3594204	2825	40	35	5
<u>CP 01141 POD4</u>		CP	LE				15	21S	37E	673556	3594239	2835	45		
<u>CP 00446 POD1</u>		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2855	185	148	37
<u>CP 00446 POD2</u>		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2855	200	151	49
<u>CP 00731 POD1</u>		CP	LE	2	1	22	21S	37E		673577	3594015*	2878	8130		
<u>CP 01575 POD2</u>		CP	LE	2	2	1	22	21S	37E	673615	3594181	2898	35	35	0
<u>CP 00733 POD1</u>		CP	LE	3	3	22	21S	37E		673196	3592801*	2947	7864		
<u>CP 00732 POD1</u>		CP	LE	4	1	22	21S	37E		673584	3593613*	2967	6633		
<u>CP 00711</u>		CP	LE	4	2	2	28	21S	37E	672900	3592291*	3035	100	65	35
<u>CP 00513 POD1</u>		CP	LE	3	1	3	28	21S	37E	671508	3591467*	3045	5000	4374	626
<u>CP 00242 POD1</u>		CP	LE	3	4	2	28	21S	37E	672708	3591889*	3206			

1 mile =  
1610 meters

Average Depth to Water      **545 feet**  
Minimum Depth                      **35 feet**  
Maximum Depth                      **4374 feet**

**Record Count** 23      **WBDU 182**  
**UTM NAD83 Radius Search (in meters):**



Easting (X) 670726

Northing (Y) 3594410

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

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6/4/17 4 04 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER





# 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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Q Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<u>CP 01026</u> POD1		CP	LE	1	1	3	17	21S	37E	669809	3594958	963	167	95	72
<u>CP 00447</u> POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	1334	95		
<u>CP 00448</u> POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	1334	100		
<u>CP 00676</u>		CP	LE		4	4	18	21S	37E	669548	3594352*	1472	140	106	34
<u>CP 00895</u>	1 mile =	CP	LE	1	1	20	21S	37E	669957	3593956*	1486	163			
<u>CP 00554</u>	1610 meters	CP	LE	2	2	16	21S	37E	672744	3595610*	2045	80	70	10	
<u>CP 00985</u> POD1		CP	LE	4	4	2	19	21S	37E	669595	3593453	2104	160		
<u>CP 01245</u> POD1		CP	LE		4	18	21S	37E	668676	3594411	2214	220			
<u>CP 00729</u> POD1		CP	LE	4	1	3	15	21S	37E	673259	3594711*	2574	8015		
<u>CC 01999</u> POD1			CU	3	3	2	29	03N	36E	670385	3592502	2742	415	372	43
<u>CP 00986</u> POD1		CP	LE	4	3	4	06	21S	37E	669110	3597437	2748	154		
<u>CP 01141</u> POD3		CP	LE				15	21S	37E	673520	3594272	2941	40		
<u>CP 01141</u> POD2		CP	LE				15	21S	37E	673543	3594250	2970	40		
<u>CP 00446</u> POD1		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2974	185	148	37
<u>CP 00446</u> POD2		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2974	200	151	49
<u>CP 01141</u> POD4		CP	LE				15	21S	37E	673556	3594239	2986	45		
<u>CP 01575</u> POD1		CP	LE	1	2	1	22	21S	37E	673544	3594204	2986	40	35	5
<u>CP 01575</u> POD2		CP	LE	2	2	1	22	21S	37E	673615	3594181	3061	35	35	0
<u>CP 00731</u> POD1		CP	LE		2	1	22	21S	37E	673577	3594015*	3086	8130		

Average Depth to Water      **126 feet**  
 Minimum Depth                      **35 feet**  
 Maximum Depth                      **372 feet**

**Record Count:** 19      **WBDU 182**

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

**Easting (X):** 670736

**Northing (Y):** 3595222

**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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Permits West

**Client Sample ID:** SWSW 17 Pond

**Project:** Apache WBDU 130,185,188,192,200

**Collection Date:** 11/3/2016 8 12 00 AM

**Lab ID:** 1611379-002

**Matrix:** AQUEOUS

**Received Date:** 11/8/2016 12 03 00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Analyst
<b>EPÀ METHOD 300 0 ANIONS</b>							LGT
Chloride	150	10		mg/L	20	11/8/2016 11 35 31 PM	
<b>EPA METHOD 1664A</b>							tnc
N-Hexane Extractable Material	ND	10.3		mg/L	1	11/10/2016 12 00 00 PM	
<b>SM2540C MOD TOTAL DISSOLVED SOLIDS</b>							SRM
Total Dissolved Solids	720	20.0	*	mg/L	1	11/11/2016 10 40 00 AM	

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	H Holding times for preparation or analysis exceeded	E Value above quantitation range
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	J Analyte detected below quantitation limits
S % Recovery outside of range due to dilution or matrix	RL Reporting Detection Limit	P Sample pH Not In Range
	W Sample container temperature is out of limit as specified	



**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Permits West

**Client Sample ID:** Kerbo Domestic

**Project:** Apache WBDU 130,185,188,192,200

**Collection Date:** 11/3/2016 10 21 00 AM

**Lab ID:** 1611379-003

**Matrix:** AQUEOUS

**Received Date:** 11/8/2016 12 03 00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0 ANIONS</b>						Analyst <b>LGT</b>
Chloride	70	10		mg/L	20	11/9/2016 12 00 21 AM
<b>EPA METHOD 1664A</b>						Analyst <b>tnc</b>
N-Hexane Extractable Material	ND	10.3		mg/L	1	11/10/2016 12 00 00 PM
<b>SM2540C MOD TOTAL DISSOLVED SOLIDS</b>						Analyst <b>SRM</b>
Total Dissolved Solids	512	20.0	*	mg/L	1	11/11/2016 10 40 00 AM

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 limit
	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 1611379

Date Reported 11/17/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: Kerbo Well #1

Project: Apache WBDU 130,185,188,192,200

Collection Date: 11/3/2016 10 36 00 AM

Lab ID: 1611379-004

Matrix: AQUEOUS

Received Date: 11/8/2016 12 03 00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Analyst
<b>EPA METHOD 300 0 ANIONS</b>							LGT
Chloride	47	10		mg/L	20	11/9/2016 12 25 10 AM	
<b>EPA METHOD 1664A</b>							tnc
N-Hexane Extractable Material	ND	10.8		mg/L	1	11/10/2016 12 00 00 PM	
<b>SM2540C MOD TOTAL DISSOLVED SOLIDS</b>							SRM
Total Dissolved Solids	472	20.0		mg/L	1	11/11/2016 10 40 00 AM	

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	H Holding times for preparation or analysis exceeded	E Value above quantitation range
ND Not Detected at the Reporting Limit	R RPD outside accepted recovery limits	J Analyte detected below quantitation limit
S % Recovery outside of range due to dilution or matrix	RL Reporting Detection Limit	P Sample pH Not In Range
	W Sample container temperature is out of limit as specified	





Ogallala boundary



WBDU 182



WBDU 180



EXHIBIT G

Google earth

Survey

6388 ft

© 2013 Google

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



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



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

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## Geologic Hazards Science Center

### EHP Quaternary Faults

Search for fault:

Select a state or region map:

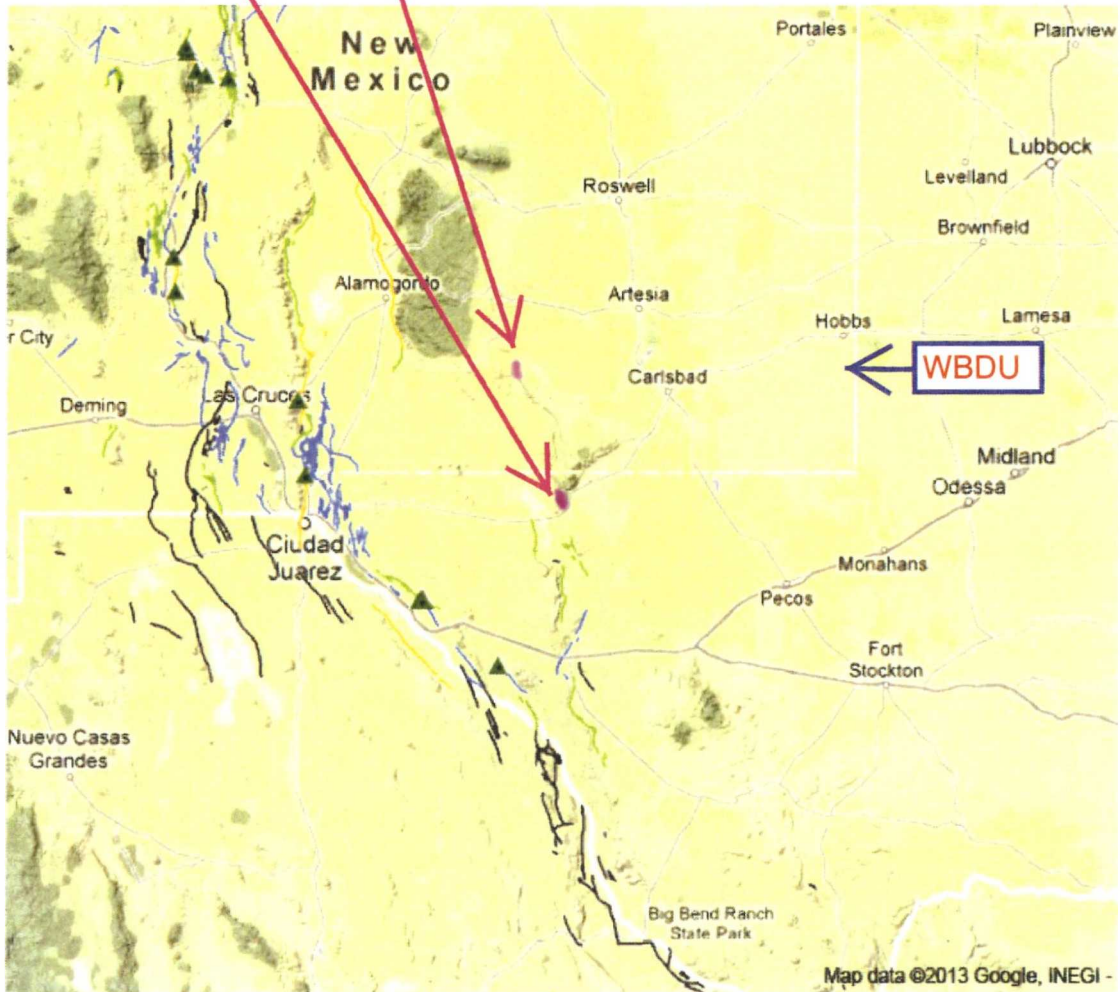


EXHIBIT H

# Affidavit of Publication

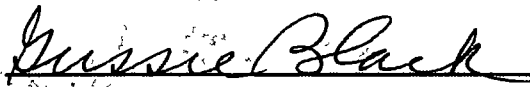
STATE OF NEW MEXICO  
COUNTY OF LEA

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)

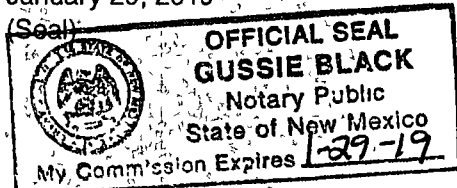
Beginning with the issue dated  
May 24, 2017  
and ending with the issue dated  
May 24, 2017

  
Publisher

Sworn and subscribed to before me this  
24th day of May 2017

  
Business Manager

My commission expires  
January 29, 2019



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

**LEGAL NOTICE**  
May 24, 2017

Apache Corporation is applying to use the West Blinbery Drinkard Unit 180 and 182 as water injection wells. The wells are 3 miles northwest of Eunice WBDU 180 (6858' deep) is at 784 FSL & 2061 FEL WBDU 182 (6925' deep) is at 1834 FNL & 1980 FEL Both wells are in Section 17, T 21 S R 37 E Lea County NM. The wells will inject water into the Blinbery Tubb and Drinkard (maximum injection pressure = 1,120 psi) WBDU 180 injection interval will be 5842' - 6734' WBDU 182 injection interval will be 5892' - 6779' 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 87505 within 15 days. Additional information can be obtained by contacting Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120 #31799

02108485

00193853

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

June 6, 2017

Chevron USA Inc.  
PO Box 285  
Houston TX 77001

Apache Corporation is applying (see attached application) to use 2 recently drilled West Blinebry Drinkard Unit wells as water injection wells. The wells are 3 miles northwest of Eunice, NM. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following project. This letter is a notice only. No action is needed unless you have questions or objections.

WBDU Well	17-21s-37e Lea County NM	Proposed Blinebry - Drinkard Injection Interval	TD
180	784 FSL & 2061 FEL	5644' - 6700'	6856'
182	1834 FNL & 1980 FEL	5692' - 6750'	6925'

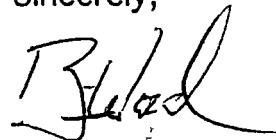
Applicant Name: Apache Corporation (432) 818-1062

Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for injection 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. NMOCD address is 1220 South St. Francis Dr. Santa Fe, NM 87505. NMOCD phone is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT J

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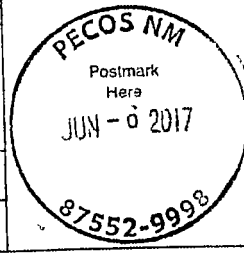
Postage \$ **2.03**

Total Postage and Fees \$ **8.13**

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620 E Greene  
Carlsbad NM 88220  
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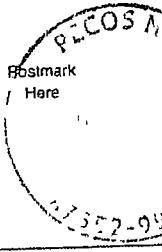
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902 Country Club  
Midland TX 79701  
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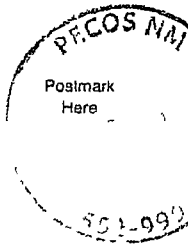
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6 Desta Dr, Suite 2100  
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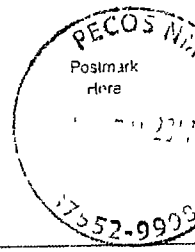
Postage \$

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PO Box 4294  
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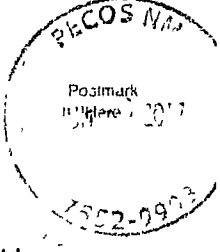


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Hobbs NM 88241  
APC-WBDU 180&182

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Total Postage and Fees  
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9 Greenway Plaza, Suite 1300  
Houston TX 77046  
APC-WBDU 180&182

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\$

Total Postage and Fees  
\$

Sent To  
**Brown Mitchell Properties Inc.**  
PO Box 5562  
Midland TX 79704  
APC-WBDU 180&182

Street and Apt No. or PO Box No.  
City, State ZIP+4

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



7015 1660 0000 1583 2002

**U.S. Postal Service**  
**CERTIFIED MAIL® RECEIPT**  
*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  
**Upland Production Company**  
PO Box 1327  
Edmond OK 73083  
APC-WBDU 180&182

Street and Apt No. or PO Box No.  
City, State ZIP+4

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



7015 1660 0000 1583 1969

**U.S. Postal Service**  
**CERTIFIED MAIL® RECEIPT**  
*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  
**Stephens & Johnson Op Co**  
PO Box 2249  
Wichita Falls TX 76307  
APC-WBDU 180&182

Street and Apt No. or PO Box No.  
City, State ZIP+4

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

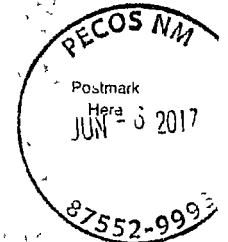


EXHIBIT J

7015 1660 0000 1583 1917

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)

- Return Receipt (hardcopy) \$
- Return Receipt (electronic) \$
- Certified Mail Restricted Delivery \$
- Adult Signature Required \$
- Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

**Chevron USA Inc.**

Sent To **6301 Deauville Blvd**

**Midland TX 79706**

Street and Apt No, or PO Box No **APC-WBDU 180&182**

City, State, ZIP+4®



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

7015 1660 0000 1583 1917

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)

- Return Receipt (hardcopy) \$
- Return Receipt (electronic) \$
- Certified Mail Restricted Delivery \$
- Adult Signature Required \$
- Adult Signature Restricted Delivery \$

Postage

\$

Total Postage and Fees

\$

**Chevron USA Inc**

Sent To **PO Box 285**

**Houston TX 77001**

Street and Apt No, or PO Box No **APC-WBDU 180&182**

City, State, ZIP+4®



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

EXHIBIT J

**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

BLM  
620 E Greene  
Carlsbad NM 88220

APC-WBDU 180&182

9590 9402 2329 6225 4750 85

2 Article Number (Transfer from service label)

7015 1660 0000 1583 1877

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

**COMPLETE THIS SECTION ON DELIVERY**

A Signature  Agent  Address  
*[Signature]*

B Received by (Printed Name) *David Mervin* C Date of Delivery *6/9/17*

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

3 Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restr Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Certified Mail Restricted Delivery  Signature Confirmatio Restricted Delivery  
 Collect on Delivery  Signature Confirmatio Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmatio Restricted Delivery  
 Insured Mail  Signature Confirmatio Restricted Delivery  
 Mail Restricted Delivery

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

Chevron USA Inc  
PO Box 285  
Houston TX 77001

APC-WBDU 180&182

9590 9402 2329 6225 4751 08

2 Article Number (Transfer from service label)

7015 1660 0000 1583 1891

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

**COMPLETE THIS SECTION ON DELIVERY**

A Signature  Agent  Address  
*[Signature]*

B Received by (Printed Name) C Date of Delivery

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

3 Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restr Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Certified Mail Restricted Delivery  Signature Confirmatio Restricted Delivery  
 Collect on Delivery  Signature Confirmatio Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmatio Restricted Delivery  
 Insured Mail  Signature Confirmatio Restricted Delivery  
 Mail Restricted Delivery

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

Chevron USA Inc  
6301 Deauville Blvd  
Midland TX 79706

APC-WBDU 180&182

9590 9402 2329 6225 4751 15

2 Article Number (Transfer from service label)

7015 1660 0000 1583 1907

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

**COMPLETE THIS SECTION ON DELIVERY**

A Signature  Agent  Address  
*[Signature]*

B Received by (Printed Name) *MADRID* C Date of Delivery *9/17*

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

3 Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restr Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Certified Mail Restricted Delivery  Signature Confirmatio Restricted Delivery  
 Collect on Delivery  Signature Confirmatio Restricted Delivery  
 Collect on Delivery Restricted Delivery  Signature Confirmatio Restricted Delivery  
 Insured Mail  Signature Confirmatio Restricted Delivery  
 Mail Restricted Delivery

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

ConocoPhillips  
PO Box 7500  
Bartlesville OK 74005

APC-WBDU 180&182

9590 9402 2329 6225 4751 22

2 Article Number (Transfer from service label)

7015 1660 0000 1583 1914

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

**COMPLETE THIS SECTION ON DELIVERY**

A Signature **X ConocoPhillips**  Agent  Address

B Received by (Printed Name) **JU 09 117** C Date of Delivery

D Is delivery address different from item 1?  Yes  
If YES, enter delivery address below  No  
**Bartlesville, OK**

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

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

John H Hendrix Corp  
6 Desta Dr, Suite 2100  
Midland TX 79705

APC-WBDU 180&182

9590 9402 2329 6225 4751 39

2 Article Number (Transfer from service label)

7015 1660 0000 1583 1921

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

**COMPLETE THIS SECTION ON DELIVERY**

A Signature **X John Hendrix**  Agent  Address

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

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

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

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

Brown Mitchell Properties Inc  
PO Box 5562  
Midland TX 79704

APC-WBDU 180&182

9590 9402 2329 6225 4750 92

2 Article Number (Transfer from service label)

7015 1660 0000 1583 1884

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

**COMPLETE THIS SECTION ON DELIVERY**

A Signature **X C Horton**  Agent  Address

B Received by (Printed Name) **C Horton** C Date of Delivery **6-12-17**

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

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

JUN 12 2017

**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

Penroc Oil Corp  
Box 2769  
Hobbs NM 88241

9590 9412 2262 6225 0296 35

2 Article Number (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A Signature  Agent  
 Address

B Received by (Printed Name) C Date of Delivery  
Agne Kenna 06/10/11

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

3 Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restr  
 Certified Mail®  Delivery  
 Certified Mail Restricted Delivery  Return Receipt for  
 Collect on Delivery Merchandise  
 Collect on Delivery Restricted Delivery  Signature Confirmation  
 Insured Mail  Signature Confirmation  
 Insured Mail Restricted Delivery (over \$500)  Restricted Delivery

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

Sandridge Epl & Prod LLC  
123 Robert S Kerr Ave  
Oklahoma City OK 73102

APC-WRDII 1R0&1R7

9590 9402 2329 6225 4751 84

2 Article Number (Transfer from service label)

7015 1660 0000 1583 1976

**COMPLETE THIS SECTION ON DELIVERY**

A Signature  Agent  
 Address

B Received by (Printed Name) C Date of Delivery  
Country Ocean 6-9-11

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

3 Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restr  
 Certified Mail®  Delivery  
 Certified Mail Restricted Delivery  Return Receipt for  
 Collect on Delivery Merchandise  
 Collect on Delivery Restricted Delivery  Signature Confirmatic  
 Insured Mail  Signature Confirmatic  
 Insured Mail Restricted Delivery (over \$500)  Restricted Delivery

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

Sheridan Production Company, LLC  
9 Greenway Plaza, Suite 1300  
Houston TX 77046

APC-WRDII 1R0&1R7

9590 9402 2329 6225 4751 91

2 Article Number (Transfer from service label)

7015 1660 0000 1583 1983

**COMPLETE THIS SECTION ON DELIVERY**

A Signature  Agent  
 Address

B Received by (Printed Name) C Date of Delivery  
Curtis Ann 6-12-11

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

3 Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restr  
 Certified Mail®  Delivery  
 Certified Mail Restricted Delivery  Return Receipt for  
 Collect on Delivery Merchandise  
 Collect on Delivery Restricted Delivery  Signature Confirmatic  
 Insured Mail  Signature Confirmatic  
 Insured Mail Restricted Delivery (over \$500)  Restricted Delivery

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

Six Aeches Co  
902 Country Club  
Midland TX 79701

APC-WBDU 180&182

9590 9402 2329 6225 4151 40

2 Article Number (Transfer from service label)

7015 1660 0000 1583 1938

**COMPLETE THIS SECTION ON DELIVERY**

A Signature  
X *Debbie Hedrick*  Agent  Address

B Received by (Printed Name) C Date of Delivery  
Debbie Hedrick

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

3 Service Type  Priority Mail Express  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Certified Mail Restricted Delivery  Signature Confirmation  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  
 Insured Mail  
 Mail Restricted Delivery (00)

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

Stephens & Johnson Op Co  
PO Box 2249  
Wichita Falls TX 76307

APC-WBDU 180&182

9590 9402 2353 6225 9351 15

2 Article Number (Transfer from service label)

7015 1660 0000 1583 1990

**COMPLETE THIS SECTION ON DELIVERY**

A Signature  
X *Diana Walker*  Agent  Address

B Received by (Printed Name) C Date of Delivery  
Diana Walker

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

3 Service Type  Priority Mail Express  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Certified Mail Restricted Delivery  Signature Confirmation  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  
 Insured Mail  
 Mail Restricted Delivery (00)

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

Upland Production Company  
PO Box 1327  
Edmond OK 73083

APC-WBDU 180&182

9590 9402 2353 6225 9357 22

2 Article Number (Transfer from service label)

7015 1660 0000 1583 2003

**COMPLETE THIS SECTION ON DELIVERY**

A Signature  
X *Kent Hedrick*  Agent  Address

B Received by (Printed Name) C Date of Delivery  
Kent Hedrick

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

3 Service Type  Priority Mail Express  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Certified Mail Restricted Delivery  Signature Confirmation  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  
 Insured Mail  
 Mail Restricted Delivery (00)

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



# 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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<u>CP 00447 POD1</u>		CP	LE	2	4	4	18	21S	37E	669647	3594451*	95		
<u>CP 00448 POD1</u>		CP	LE	2	4	4	18	21S	37E	669647	3594451*	100		
<u>CP 00554</u>		CP	LE	2	2	16	21S	37E	672744	3595610*	80	70	10	
<u>CP 00676</u>		CP	LE	4	4	18	21S	37E	669548	3594352*	140	106	34	
<u>CP 00895</u>		CP	LE	1	1	20	21S	37E	669957	3593956*	163			
<u>CP 00985 POD1</u>		CP	LE	4	4	2	19	21S	37E	669595	3593453	160		
<u>CP 01026 POD1</u>		CP	LE	1	1	3	17	21S	37E	669809	3594958	167	95	72
<u>CP 01245 POD1</u>		CP	LE		4	18	21S	37E	668676	3594411	220			

Average Depth to Water 90 feet

Minimum Depth 70 feet

Maximum Depth 106 feet

Record Count: 8

PLSS Search:

Section(s) 16-21 Township 21S Range 37E

\*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

6/28/17 2 20 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER





# C-108 Review Checklist: Area Order

## Supplemental Checklist for Multiple Well Application

ORDER TYPE: WFX / PMX Number \_\_\_\_\_ SUPPLEMENTAL PAGE \_\_\_\_\_ of \_\_\_\_\_

Relevant Hearing Order(s) \_\_\_\_\_

MULTIPLE WELL APPLICATION 11 of 11 Well No 182 Well Name(s) LUBOY  
 API 30-0 25-43530 Spud Date 4/16/2017 New or Old Y (UIC Class II Primacy 03/07/1982)  
 Footages 1834 FNL Lot \_\_\_\_\_ or Unit 6 Sec 17 Tsp 215 Rge 37E County Lee  
 WELL FILE REVIEWED  Current Status drilled & completed  
 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>11/8578</u>	<u>1296</u>	<u>575</u>	<u>Surface/Visu</u>
Planned ___ or Existing ___ Interm/Prod	<u>7/55</u>	<u>6925</u>	<u>1350</u>	<u>14'</u>
Planned ___ or Existing ___ Interm/Prod				
Planned ___ or Existing ___ Prod/Liner				
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ OH <u>PERF</u>	<u>562/6750</u>			
			Inj Length	Hydrologic Information and AOR Well Summary on Coversheet

Completion/Operation Details Drilled TD 6925 PBDT \_\_\_\_\_ NEW TD \_\_\_\_\_ NEW PBDT \_\_\_\_\_  
 NEW Open Hole  or NEW Perfs  Tubing Size 2 3/8 in Coated? Y Prop Packer Depth 212 ft Min Depth 5592 (100-ft limit)  
 Proposed Max Surface Press 113 psi Admin Inj Press 113 (0.2 psi per ft) ANY AREA IPI APPROVAL: \_\_\_\_\_  
 Specific Requirement(s) for Well 170PS 7450' BL DR 6163 5677 6500

MULTIPLE WELL APPLICATION \_\_\_ of \_\_\_ Well No \_\_\_\_\_ Well Name(s) \_\_\_\_\_  
 API 30-0 \_\_\_\_\_ Spud Date \_\_\_\_\_ New or Old \_\_\_\_\_ (UIC Class II Primacy 03/07/1982)  
 Footages \_\_\_\_\_ Lot \_\_\_\_\_ or Unit \_\_\_\_\_ Sec \_\_\_\_\_ Tsp \_\_\_\_\_ Rge \_\_\_\_\_ County \_\_\_\_\_  
 WELL FILE REVIEWED  Current Status \_\_\_\_\_  
 WELL DIAGRAMS NEW Proposed  or RE-ENTER Before Conv  After Conv  Logs in Imaging \_\_\_\_\_  
 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 ___ Surface			Stage Tool	
Planned ___ or Existing ___ Interm/Prod				
Planned ___ or Existing ___ Interm/Prod				
Planned ___ or Existing ___ Prod/Liner				
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ OH / PERF				
			Inj Length	Hydrologic Information and AOR Well Summary on Coversheet

Completion/Operation Details Drilled TD \_\_\_\_\_ PBDT \_\_\_\_\_ NEW TD \_\_\_\_\_ NEW PBDT \_\_\_\_\_  
 NEW Open Hole  or NEW Perfs  Tubing Size \_\_\_\_\_ in Coated? \_\_\_\_\_ Prop Packer Depth \_\_\_\_\_ ft Min Depth \_\_\_\_\_ (100-ft limit)  
 Proposed Max Surface Press \_\_\_\_\_ psi Admin Inj Press \_\_\_\_\_ (0.2 psi per ft) ANY AREA IPI APPROVAL: \_\_\_\_\_  
 Specific Requirement(s) for Well \_\_\_\_\_

II



C-108 Review Checklist Received 6-21-2017 Add Request \_\_\_\_\_ Reply Date \_\_\_\_\_ Suspended \_\_\_\_\_ [Ver 15]

ORDER TYPE (WFX) PMX / SWD Number \_\_\_\_\_ Order Date \_\_\_\_\_ Legacy Permits/Orders E12541

Well No 180 Well Name(s) WBD4

API 30-0 25-43529 Spud Date 4/1/2017 New or Old N (UIC Class II Primacy 03/07/1982)

Footages 784 FSL  
2061 FEL Lot \_\_\_\_\_ or Unit 0 Sec 17 Tsp 21S Rge 37E County Lea

General Location 2 miles NW Eynice Pool Eynice BL-TDR Pool No 22900

BLM 100K Map JAL Operator Apache Corporation OGRID 873 Contact Brian Wood Agent

COMPLIANCE RULE 59 Total Wells 2 Inactive 3 Fincl Assur OK Compl Order? NA IS 59 OK? Y Date \_\_\_\_\_

WELL FILE REVIEWED  Current Status drilled & completed

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 Or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface		<u>11 1/8 5/8</u>	<u>1288</u>	<u>575</u>	<u>Surface / Visual</u>
Planned ___ or Existing ___ Intern/Prod		<u>7 1/8 5/8</u>	<u>6856</u>	<u>1870</u>	<u>Surface / Visual</u>
Planned ___ or Existing ___ Intern/Prod					
Planned ___ or Existing ___ Prod/Liner					
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH / PER		<u>5644 / 6700</u>			
				<u>1056</u>	
<b>Injection Lithostratigraphic Units</b>				<b>Completion/Operation Details</b>	
Adjacent Unit Litho Struc Por	Depths (ft)	Injection or Confining Units	Tops	Drilled TD <u>6856</u>	PBTD _____
Confining Unit Litho Struc Por				NEW TD _____	NEW PBTD _____
Proposed Inj Interval TOP				NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>	
Proposed Inj Interval BOTTOM				Tubing Size <u>2 3/8</u> in Inter Coated? <u>Y</u>	
Confining Unit Litho Struc Por				Proposed Packer Depth <u>5594</u> ft	
Adjacent Unit Litho Struc Por				Min Packer Depth <u>5544</u> (100-ft limit) <u>120</u>	
				Proposed Max Surface Press <u>1500</u> psi	
				Admin Inj Press <u>1100</u> (0.2 psi per ft)	

*\* Limited by 12-25-81*

**AOR Hydrologic and Geologic Information**  
POTASH R-111-P NA Noticed? \_\_\_\_\_ BLM Sec Ord  WIPP  Noticed? \_\_\_\_\_ Salt/Salado T NW B 247 NW Cliff House fm \_\_\_\_\_

FRESH WATER Aquifer Quaternary Max Depth 1521 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin CAPITAN CAPITAN REEF thru adj NA No Wells within 1-Mile Radius? 5 FW Analysis

Disposal Fluid Formation Source(s) Produced H2O Analysis? Y On Lease  Operator Only  or Commercial

Disposal Int Inject Rate (Avg/Max BWPD) 2.56/314 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? Y Total No Wells Penetrating Interval 413 Horizontals? NA

Penetrating Wells No Active Wells 42 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

Penetrating Wells No P&A Wells 1 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? Y

NOTICE: Newspaper Date May 24, 2017 Mineral Owner BLM Surface Owner Chevron N Date \_\_\_\_\_

RULE 26 7(A) Identified Tracts? \_\_\_\_\_ Affected Persons \_\_\_\_\_ N Date \_\_\_\_\_

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