

RECEIVED: 12/18/2017	REVIEWER: MAM	TYPE: WFX	APP NO: PMAM 1732 36636
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Applicant: Apache Corporation	OGRID Number: 873
Well Name: East Blinbry Drinkard Unit 12	API: 30-025-06477
Pool: Eunice; BLI-TU-DR, North	Pool Code: 22900

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

Wfx - 476

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

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

FOR OCD ONLY

- ☐ Notice Complete
- ☐ Application Content Complete

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

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

Brian Wood

Print or Type Name

Signature

12-16-17

Date

505 466-8120

Phone Number

brian@permitswest.com

e-mail Address

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

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

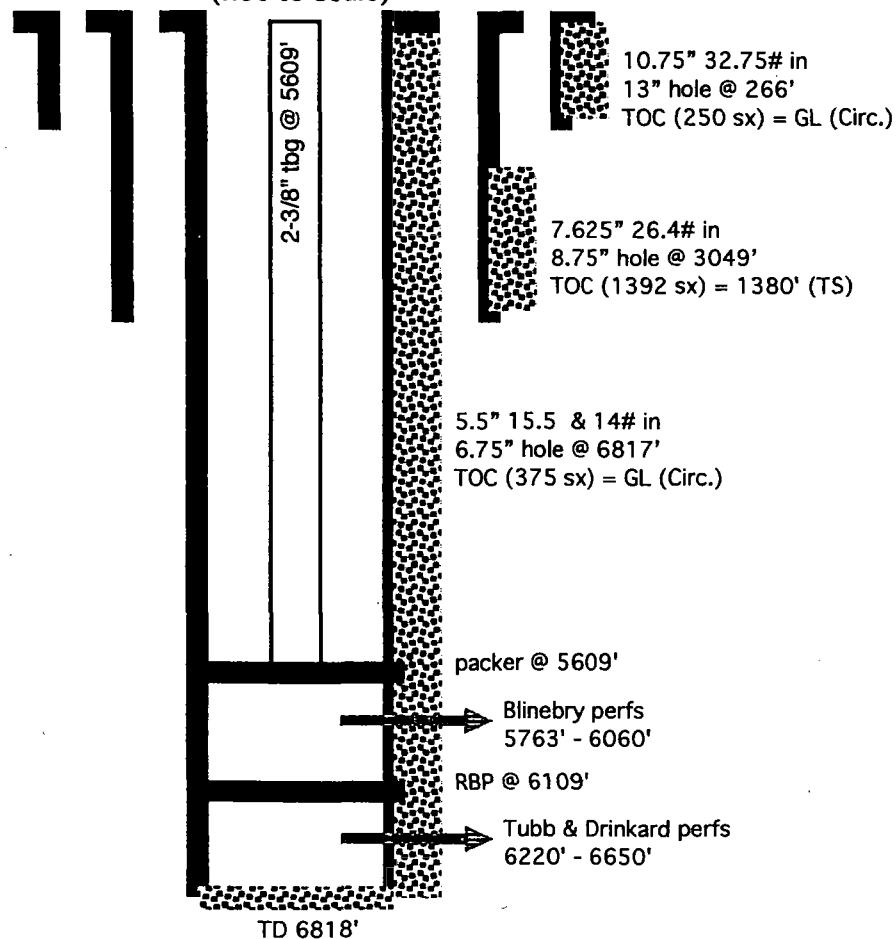
OPERATOR: APACHE CORPORATIONWELL NAME & NUMBER: EAST BLINEBRY DRINKARD UNIT 12

WELL LOCATION: 330' FNL & 330' FWL D 11 21 S 37 E
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

" AS IS"

(not to scale)

WELL CONSTRUCTION DATASurface Casing

Hole Size: 13" Casing Size: 10.75"
 Cemented with: 250 sx. *or* ft³
 Top of Cement: SURFACE Method Determined: CIRCULATED

Intermediate Casing

Hole Size: 8.75" Casing Size: 7.625"
 Cemented with: 1392 sx. *or* ft³
 Top of Cement: 1380' Method Determined: TEMP. SURV.

Production Casing

Hole Size: 6.75" Casing Size: 5.5"
 Cemented with: 375 sx. *or* ft³
 Top of Cement: SURFACE Method Determined: CIRCULATED
 Total Depth: 6818'

Injection Interval5618 feet to 6073'

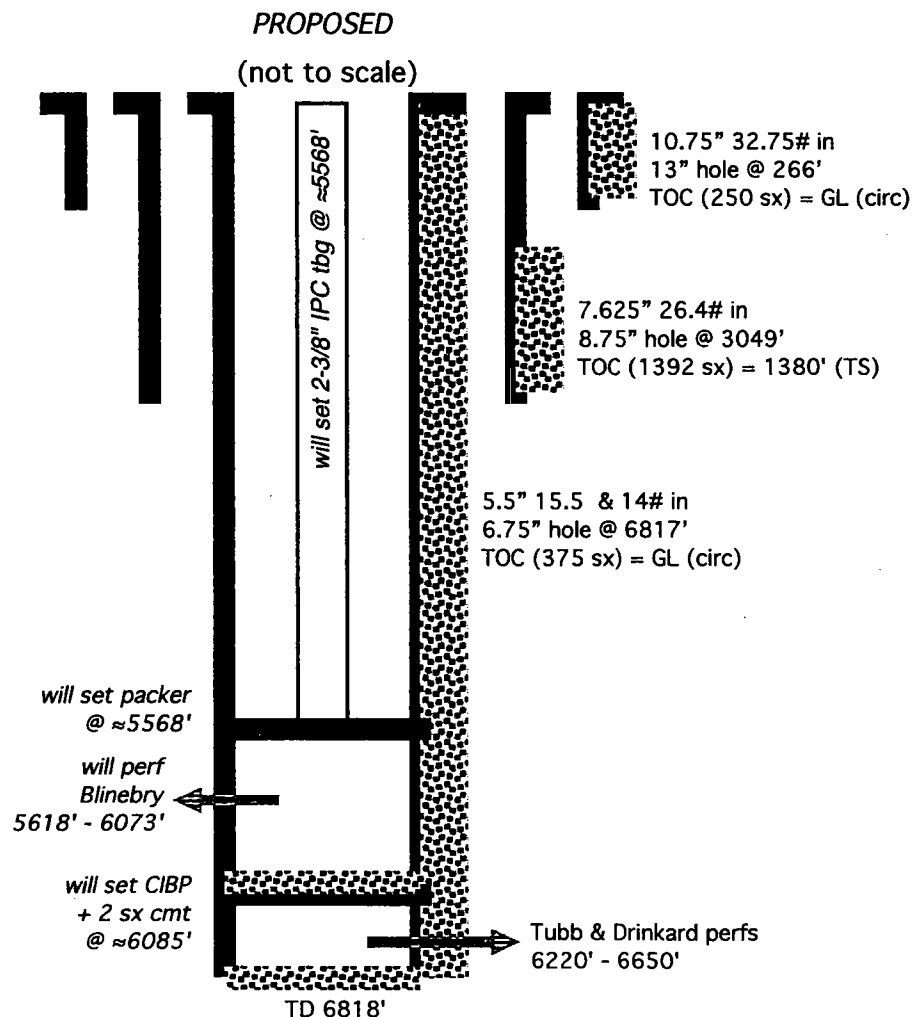
(Perforated or Open Hole; indicate which)

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 Cemented with: 375 sx. or ft³
 Top of Cement: SURFACE Method Determined: CIRCULATED
 Total Depth: 6818'

Injection Interval

5618 feet to 6073'

(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: ≈5568'

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

Additional Data

1. Is this a new well drilled for injection? _____ Yes XXX No

If no, for what purpose was the well originally drilled? DRINKARD OIL WELL

2. Name of the Injection Formation: BLINEBRY

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____

NO

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

OVER: YATES (2625'), 7 RIVERS (2855'), QUEEN (3436'), GRAYBURG (3770'),
SAN ANDRES (4040')UNDER: TUBB (6174'), DRINKARD (6498'), ABO (6839')

APACHE CORPORATION
EAST BLINEBRY DRINKARD UNIT 12
330' FNL & 330' FWL
SEC. 13, T. 21 S., R. 37 E., LEA COUNTY, NM

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30-025-06477

I. Goal is to convert a 6818' TD oil well to a water injection well to increase oil recovery. The well will inject (5618' - 6073') into the Blinebry, which is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900).

Well and zone are in the East Blinebry Drinkard Unit (Case Numbers 13503 and 13504, Order Numbers R-12394 and R-12395) that was established in 2005 by Apache. There have been 6 subsequent WFX approvals (WFX-819, -842, -904, -909, -963, & -969). This is an active water flood. Twenty-four water injectors are in the Unit. Injection increase to 2100 psi was authorized (IPI-292) in 2008.

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

III. A. (1) Lease: BLM (NMNM-125057)
Lease Size: 1200 acres (see Exhibit A for maps and C-102)
Closest Lease Line: 330'
Lease Area: SW4, S2NW4, NWSE Section 13, T. 21 S., R. 37 E. et al
Unit Size: 2080 acres BLM Unit #: NMNM-112723X
Closest Unit Line: 330'
Unit Area: T. 21 S., R. 37 E.
Section 1: Lots 11-15, W2SE4, & SW4
Section 11: E2 & NW4
Sections 12: W2 & W2E2
Section 13: W2, W2NW4, & NWSE
Section 14: NE4 & E2SE4

A. (2) Surface casing (10.75", 32.75#, H-40) is set at 266' in a 13" hole and cemented to GL (circulated) with 250 sacks.

Intermediate casing (7.625", 26.4#, J-55) is set at 3049' in an 8.75" hole and cemented to 1380' (temperature survey) with 1392 sacks.

Production casing (5.5", 15.5# & 14#, J-55) is set at 6817' in a 6.75" hole and cemented to GL (circulated) with 375 sacks.

A CIBP will be set at $\approx 6085'$ and topped with 2 sacks cement. 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# IPC or 5.3# fiber lined). Setting depth will be $\approx 5568'$. (Disposal interval will be 5618' - 6073'.)*
- A. (4) A lock set injection packer will be set at $\approx 5568'$ ($\approx 50'$ above the highest proposed perforation of 5618').
- B. (1) Injection zone will be the Blinebry carbonate. It is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool. Fracture gradient is ≈ 0.56 psi/ft.
- B. (2) Injection interval will be from 5618' to 6073' in a cased hole. Well is now perforated in Blinebry, Tubb, and Drinkard from 5763' to 6650'.
- B. (3) Well was originally drilled in 1951 as a Drinkard oil well.
- B. (4) Well will be perforated from 5618' to 6073' with 2 shots per foot. Shot diameter = 0.40". Perforation and isolation history is below:

Depth	Zone	Action
5568	Blinebry	proposed CIBP + 2 sx cmt
5618 - 6073	Blinebry	proposed injection interval
5763 - 5880	Blinebry	open perfs
5920 - 6060	Blinebry	open perfs
6220 - 6332	Tubb	open perfs
6528 - 6650	Drinkard	open perfs

- B. (5) Next higher oil or gas zone in the area of review is the San Andres. Its bottom is at 5239'. Injection will occur in the Blinebry. Highest perforation will be 5618'.

Next lower oil or gas zone in the area of review is the Tubb, part of the same Eunice; Blinebry-Tubb-Drinkard, North Pool. Tubb top is at 6174'. Deepest perforation will be 6073'.

IV. This is not a horizontal or vertical expansion of an existing injection project. Case files 13503 and 13504 describe the water flood.

V. Exhibit B shows and tabulates all 49 existing and 2 approved wells (31 oil wells + 11 injectors + 7 P & A wells + 2 planned oil wells) within a half-mile radius, regardless of depth. Exhibit C shows all 706 existing wells (497 oil or gas wells + 137 injection or disposal wells + 56 P&A wells + 15 water supply wells + 1 brine well) within a two-mile radius.

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

Aliquot Parts in Area of Review (T21S, R37E)	Lessor	Lease	Lessee(s) of Record	Blinebry, Tubb, &/or Drinkard operator
SW4 Sec. 2	NMSLO	B0-9745-0004	Occidental	Apache
SWSE Sec. 2	NMSLO	B0-1732-0001	Chevron	Apache
N2SE4 & SESE Sec. 3	BLM	NMNM-002512	Apache & Chevron	Apache
SWSE Sec. 3	fee	C H Livingston	Apache	Apache
NENE Sec. 10	fee	Dauron	Apache	
W2NE4 & SENE Sec. 10	BLM	NMNM-002512	Apache & Chevron	Apache
NESE Sec. 10	NMSLO	B0-0935-0000	ExxonMobil	Apache

W2NE4 & NW4 Sec. 11	BLM	NMNM-125057	Apache, BP, & Chevron	Apache
NESW Sec. 11	fee	J H Nolan	Apache	Apache
NWSW Sec. 11	fee	Gutman	Apache	Apache

VI. Forty-nine existing wells are within a half-mile. Forty-seven wells penetrated the Blinebry. The penetrators include 29 oil wells, 11 injectors, and 7 P&A wells. A table abstracting the well construction details and histories of the penetrators is in Exhibit F. Diagrams of the P&A wells are in Exhibit G and sorted by API number.

- VII. 1. Average injection rate will be $\approx$ 400 bwpd.
Maximum injection rate will be 500 bwpd.
2. System is closed. Well will be tied into the existing unit pipeline system.
3. Average injection pressure will be $\approx$ 2000 psi. Maximum injection pressure will be 2100 psi (IPI-292).
4. Water source will be water pumped from an existing San Andres water supply well. A comparison of nearby analyses and San Andres follows. No compatibility problems have reported from the 15,962,112 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. Ninety-one oil wells are in the Unit. It is the goal of the project to increase production.

VIII. The Unit is on the north end of a north-northwest to south-southeast trending anticline. It is part of the Penrose Skelly trend and parallels the west edge of the Central Basin Platform. Dips are 1° to 2°. The injection interval is Leonardian in age, 455' thick, and consists of tan to dark gray shallow marine carbonates, many of which have been dolomitized. Core filling and replacement anhydrite is 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 106 Blinebry injection wells in the state. The East Blinebry Drinkard Unit shares its west border with Apache's Northeast Drinkard Unit. Three other similar water floods (West Blinebry Drinkard Unit, Northeast Drinkard Unit, and Warren Blinebry Unit) are within a mile of the East Blinebry Drinkard Unit. The slightly more distant (2 miles) Central Drinkard Unit has been under water flood since the 1960s.

Formation depths are:

Quaternary = 0'
Rustler = 1300'
Top salt = 1390'
Base salt = 2470'
Yates = 2625'
Seven Rivers = 2855'
Queen = 3436'
San Andres = 4040'

Glorieta = 5240'
Blinebry marker = 5618'
injection interval = 5618' - 6073'
Blinebry = 5694'
Tubb = 6174'
Drinkard = 6498'
TD = 6818'

According to Office of the State Engineer records (Exhibit H), one fresh water well, 70' deep, is within a mile radius. That well, a steel windmill according to 1966 records, could not be found during an August 18, 2017 field inspection. Nor were any other water wells found within a mile.

The same records show the deepest water well within 2 miles is 8015'. However, it is not a fresh water well. It is a now P&A oil well (30-025-06606) that was converted to a water supply well for unit water floods. Water source was the San Andres (4016' - 4941'). Otherwise, deepest water well within 2-miles is 90'.

There will be >4,000' of vertical separation and hundreds of feet of salt and anhydrite between the bottom of the only likely underground fresh water source (Quaternary redbeds) and the top of the injection interval. Well is a half-mile southwest of Ogallala aquifer.

There are 212 active or new injection wells and 8 active disposal wells in either the Blinebry-Tubb-Drinkard, San Andres, Grayburg, Queen, Seven Rivers, or Yates in T. 21 S., R. 37 E.

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

X. SP, resistivity, gamma ray, and neutron logs are on file with NMOCD.

XI. No water well could be found within a mile. Analyses from four fresh water wells within 1-1/4 miles to 2.1 miles away are in Exhibit H.

APACHE CORPORATION
EAST BLINEBRY DRINKARD UNIT 12
330' FNL & 330' FWL
SEC. 13, T. 21 S., R. 37 E., LEA COUNTY, NM

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XII. Apache (Exhibit I) 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 $\approx$ 110 miles southwest (Exhibit I). There are 106 Blinebry injection wells in New Mexico. Previously approved water flood expansions in the Unit include WFX-819, -842, -904, -909, -963, and -969.

XIII. A legal ad (see Exhibit J) was published on August 16, 2017. Notice (this application) has been sent (Exhibit K) to the surface owner (W F M Ranch), government lessors (BLM & NMSLO), lessees (BP, Chevron, ExxonMobil, & Occidental), and operating rights holders (ConocoPhillips, Devon, Energen, Kerr-McGee Onshore, Petro Strategies, & St. Croix) within a half-mile. Apache operates all wells within a half-mile regardless of depth.

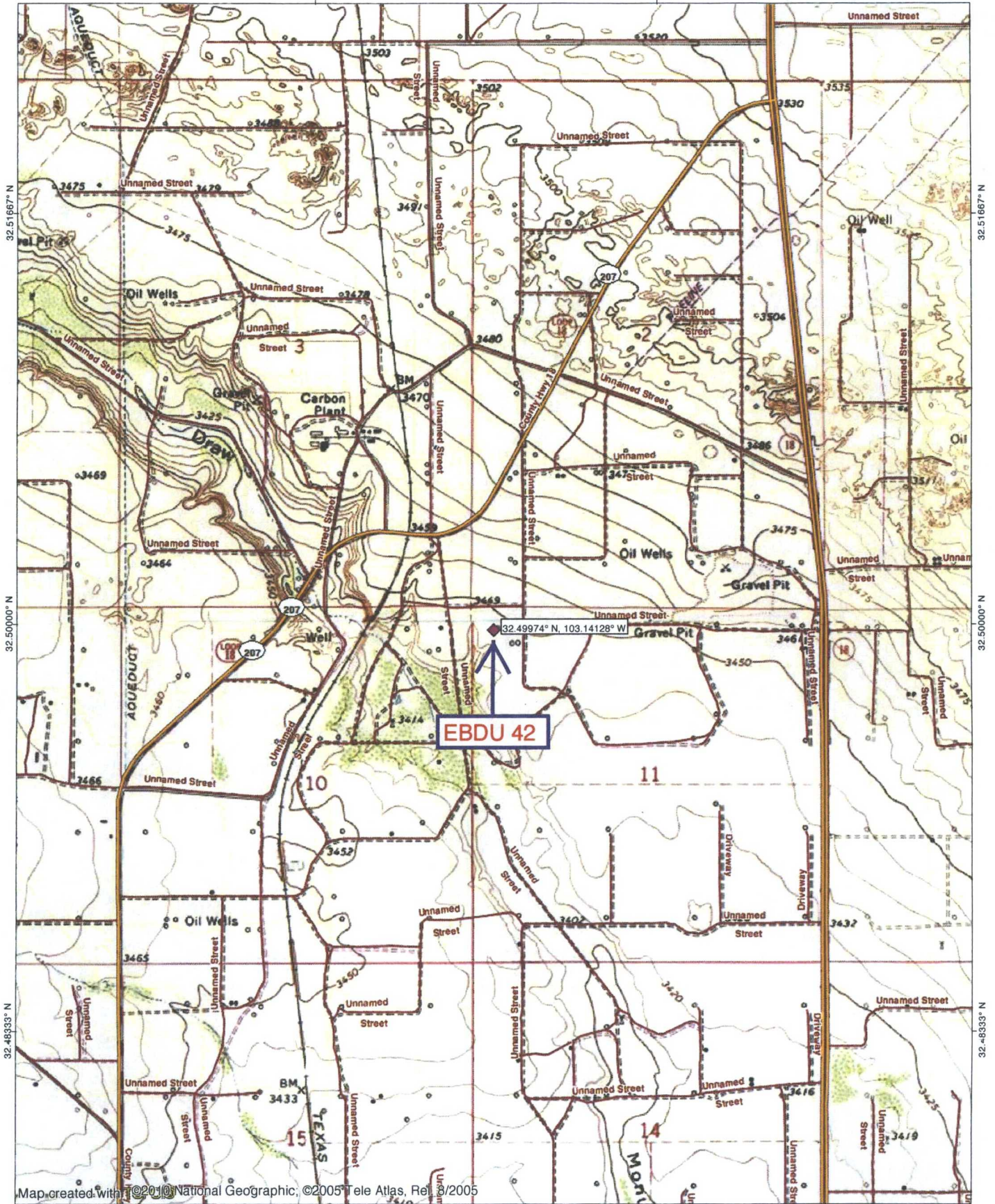
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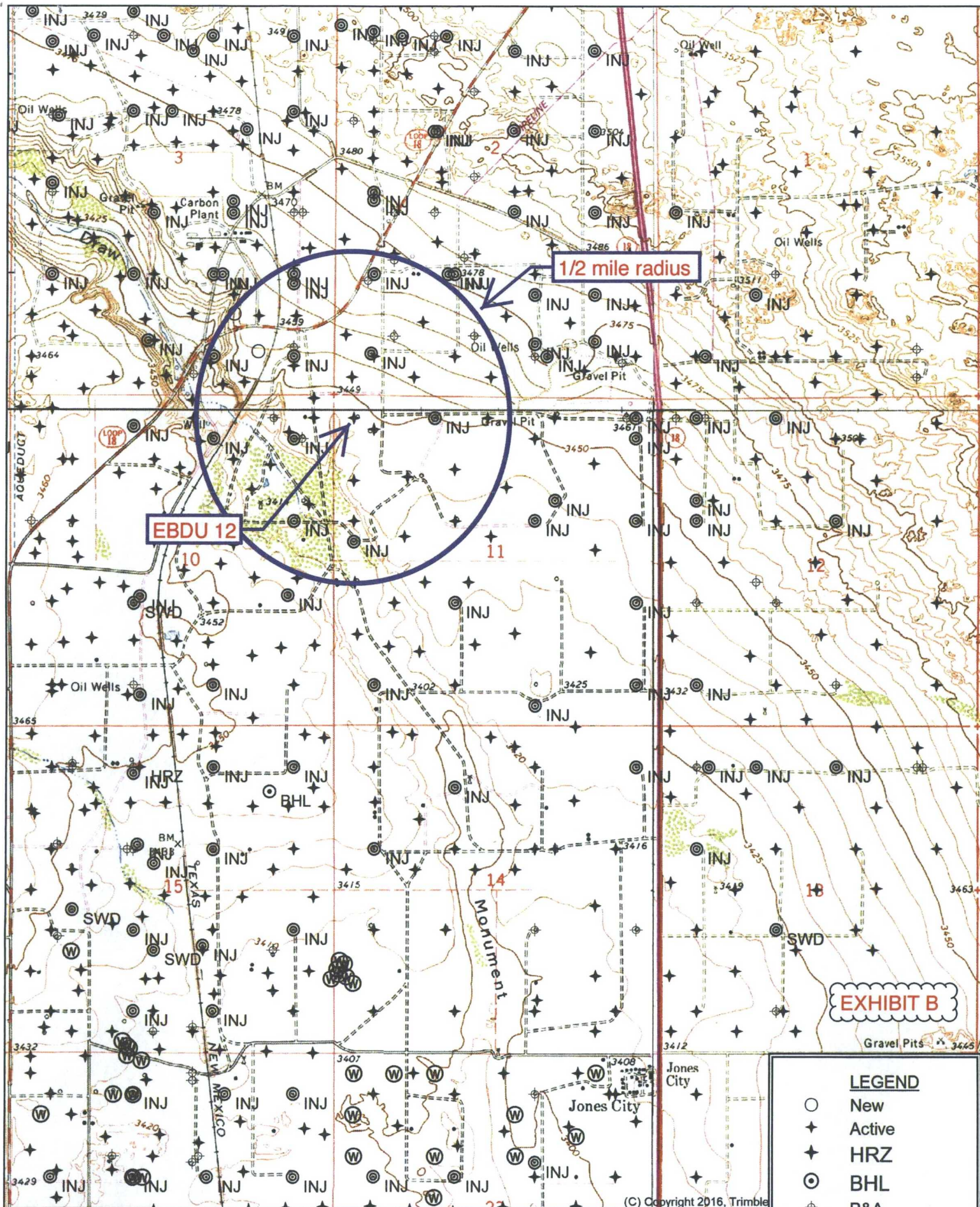
**EAST BLINEBRY DRINKARD UNIT
LEA COUNTY, NEW MEXICO**

⑪ UNIT TRACT NUMBER

A horizontal number line with tick marks at 0, 1000, and 2000. The segment between 1000 and 2000 is shaded in red.

EAST BLINEBRY (KEVIN)





EBDU 12

1/2 mile radius

EXHIBIT B

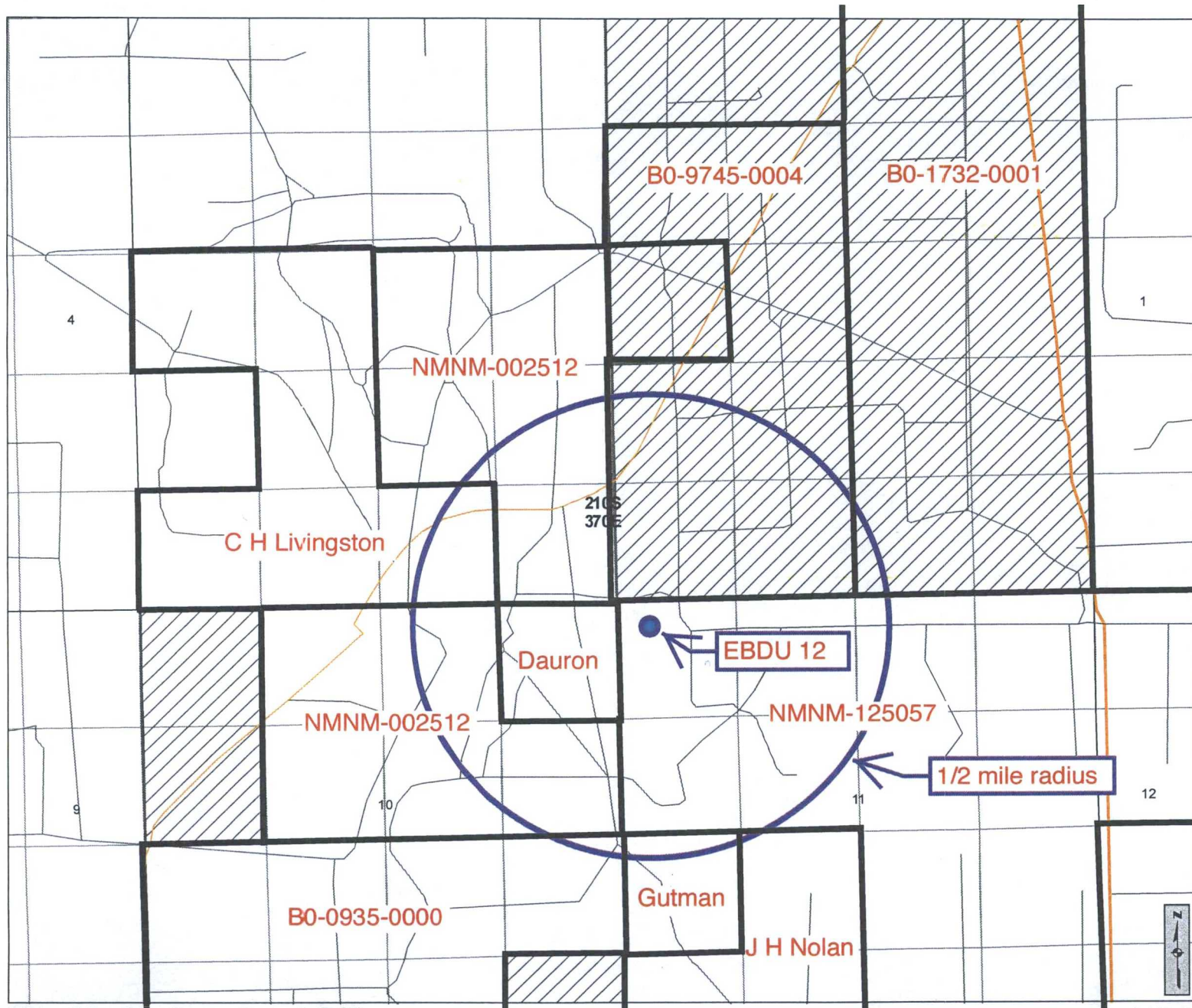
Quadrant: EUNICE
Scale: 1 inch = 2,000 ft.

(C) Copyright 2016, Trimble

API	OPERATOR	WELL	T21S-R37E UNIT- SECTION	TVD	TYPE	ZONE	FEET FROM EBDU 12
3002506524	Apache	Lockhart B 11 001	D-11	7751	O	Wantz; Abo	377
3002538507	Apache	NEDU 345	M-2	6980	O	Eunice; Bli-Tu-Dr, N	475
3002537026	Apache	NEDU 421	A-10	6951	O	Eunice; Bli-Tu-Dr, N	663
3002539583	Apache	NEDU 348	A-10	7000	O	Eunice; Bli-Tu-Dr, N	695
3002506447	Apache	NEDU 409	A-10	7563	P&A	Eunice; Bli-Tu-Dr, N	920
3002506369	Apache	State Section 2 003	M-2	7906	O	Wantz; Abo	1044
3002506446	Apache	NEDU 408	A-10	7875	I	Eunice; Bli-Tu-Dr, N	1048
3002506370	Apache	NEDU 313	M-2	6718	I	Eunice; Bli-Tu-Dr, N	1077
3002537677	Apache	NEDU 339	M-2	6975	O	Eunice; Bli-Tu-Dr, N	1083
3002535905	Apache	Dauron 004	M-10	4200	O	Penrose Skelly; Grayburg	1097
3002539461	Apache	EBDU 100	E-11	6900	O	Eunice; Bli-Tu-Dr, N	1187
3002506498	Apache	Hawk B 3 001	P-3	7975	O	Penrose Skelly; Grayburg	1303
3002506448	Southland Royalty	Dauron 003	A-10	7780	P&A	Wantz; Abo	1326
3002506476	Apache	EBDU 013	C-11	7811	I	Eunice; Bli-Tu-Dr, N	1326
3002534414	Apache	NEDU 330	M-2	6910	O	Eunice; Bli-Tu-Dr, N	1341
3002506497	Apache	NEDU 310	P-3	6760	I	Eunice; Bli-Tu-Dr, N	1404
3002538301	Apache	EBDU 064	D-11	6975	O	Eunice; Bli-Tu-Dr, N	1421
3002506490	Apache	NEDU 314	M-2	5910	P&A	Eunice; Bli-Tu-Dr, N	1477
3002506503	Conoco	Hawk B 3 006	P-3	7825	P&A	Paddock	1514
3002506475	Apache	Hawk B 10 001	H-10	6625	O	Penrose Skelly; Grayburg	1571
3002506525	Apache	Lockhart B 11 003	E-11	7659	O	Penrose Skelly; Grayburg	1650

3002541576	Apache	NEDU 411	A-10	6945	O	Eunice; Bli-Tu-Dr, N	1679
3002541286	Apache	NEDU 355	P-3	6962	O	Eunice; Bli-Tu-Dr, N	1742
3002543042	Apache	NEDU 359	P-3	Plan: 7000	O	Eunice; Bli-Tu-Dr, N	1890
3002534432	Apache	NEDU 329	O-3	6850	O	Eunice; Bli-Tu-Dr, N	1908
3002535404	Apache	NEDU 333	N-2	6950	O	Eunice; Bli-Tu-Dr, N	1914
3002506453	Apache	NEDU 410	H-10	7728	I	Eunice; Bli-Tu-Dr, N	1927
3002539865	Apache	EBDU 099	C-11	7204	O	Eunice; Bli-Tu-Dr, N	1928
3002506373	Apache	State Section 2 007	N-2	7854	O	Wantz; Abo	1931
3002506535	Apache	EBDU 027	E-11	6635	I	Eunice; Bli-Tu-Dr, N	1980
3002535545	Apache	NEDU 417	G-10	6820	O	Eunice; Bli-Tu-Dr, N	2037
3002506451	Apache	NEDU 406	B-10	7950	O	Eunice; Bli-Tu-Dr, N	2096
3002538760	Apache	EBDU 065	C-11	6950	O	Eunice; Bli-Tu-Dr, N	2191
3002541051	Apache	NEDU 364	O-3	6950	O	Eunice; Bli-Tu-Dr, N	2211
3002506371	Apache	State Section 2 005	L-2	7956	P&A	Wantz; Abo	2222
3002539678	Apache	EBDU 101	E-11	7211	O	Eunice; Bli-Tu-Dr, N	2242
3002534365	Apache	NEDU 326	P-3	6850	O	Eunice; Bli-Tu-Dr, N	2272
3002506367	Apache	NEDU 311	L-2	6746	I	Eunice; Bli-Tu-Dr, N	2334
3002506531	Apache	EBDU 025	F-11	7450	O	Eunice; Bli-Tu-Dr, N	2340
3002506450	Apache	NEDU 405	B-10	6723	I	Eunice; Bli-Tu-Dr, N	2344
3002536808	Apache	NEDU 336	N-2	7000	O	Eunice; Bli-Tu-Dr, N	2352
3002506488	Apache	NEDU 317	N-2	5914	P&A	Eunice; Bli-Tu-Dr, N	2379
3002506499	Apache	NEDU 309	I-3	8021	I	Eunice; Bli-Tu-Dr, N	2379

3002543041	Apache	NEDU 354	J-3	Plan: 7027	O	Eunice; Bli-Tu-Dr, N	2480
3002506494	Apache	NEDU 308	I-3	6753	I	Eunice; Bli-Tu-Dr, N	2516
3002506513	Apache	NEDU 307	O-3	6674	I	Eunice; Bli-Tu-Dr, N	2525
3002506514	Apache	Livingston 003	O-3	8094	O	Penrose Skelly; Grayburg	2534
3002535637	Apache	Hawk B 10 011	B-10	4450	O	Penrose Skelly; Grayburg	2577
3002506489	Apache	State Section 2 021	L-2	5925	P&A	Hare-San Andres	2620
3002539380	Apache	EBDU 073	G-11	6978	O	Eunice; Bli-Tu-Dr, N	2632
3002506537	Apache	NEDU 509	L-11	7576	O	Eunice; Bli-Tu-Dr, N	2640
3002541287	Apache	NEDU 278	I-3	6953	O	Eunice; Bli-Tu-Dr, N	2649



Cartographic Features

- City, Town or Village
- County Seat
- County Boundary
- SLO District Office
- SLO District Boundary
- Land Grant
- Interstate Highway
- US Highway
- NM Highway
- Local Road or Street

Federal Surface Management

- Bureau of Land Management
- Bureau of Reclamation
- Department of Agriculture
- Department of Defense
- Department of Energy
- USDA Forest Service
- Fish and Wildlife Service
- Bureau Indian Affairs
- National Park Service
- Valles Caldera National Preserve

State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

Lease Types

- Oil and Gas Lease
- Agricultural Lease
- Commercial Lease
- Minerals Lease

New Mexico State Land Office Trust Land Status

0 0.05 0.1 0.2 0.3 0.4
Miles

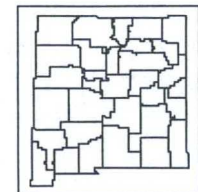
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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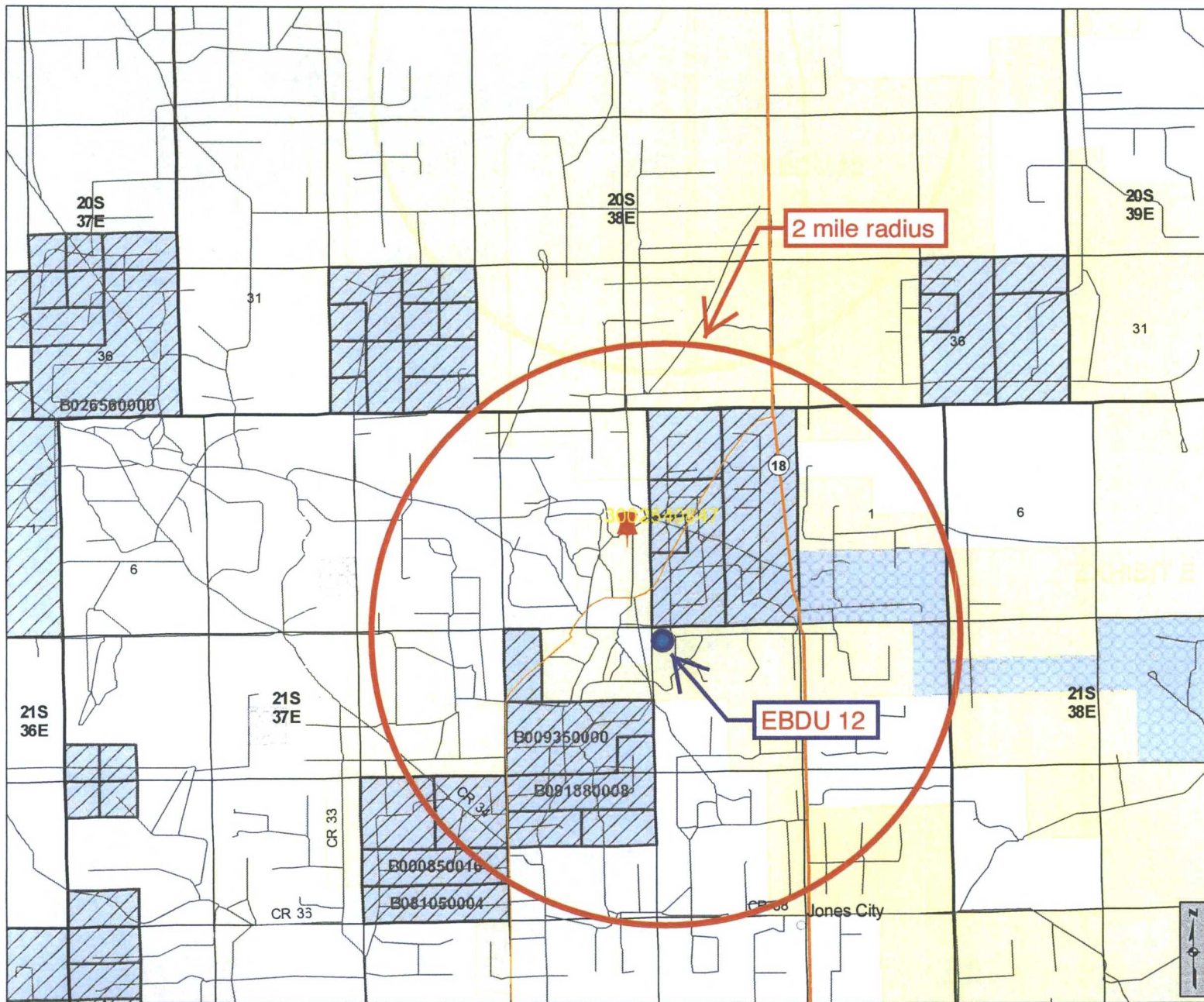
Land Office Geographic Information Center
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EXHIBIT D

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www.nmstatelands.org



Point Locations

- County Seat
- ▲ SLO District Offices
- City, Town or Village
- ★ Volcanic Vents
- Highway Mileposts

NMOCD Oil and Gas Wells

- Oil
- Injection
- ★ Carbon Dioxide
- Miscellaneous
- ☆ Gas
- ⊕ Water
- ◇ DA or PA
- △ Salt Water Disposal

Federal Minerals

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

State Trust Lands

- Surface Estate
- Subsurface Estate
- Both Estates

NMSLO Leasing

- Option Agreement
- Commercial Lease
- Minerals Lease
- Oil and Gas Lease
- Agricultural Lease
- Not Available for Oil and Gas Leasing
- Restriction Influences Oil and Gas Leasing

Other Boundaries

- Continental Divide
- State Boundary
- County Boundaries
- Oil and Gas Unit Boundary
- Participating Areas in Units
- Geologic Regions
- Potash Enclave (NMOCD R-111-P)

For detailed legend of the Geologic Map of New Mexico, please see <http://geoinfo.nmt.edu>



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New Mexico State Land Office

Oil, Gas, and Minerals

0 0.2 0.4 0.8 1.2 1.6 Miles

Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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EXHIBIT E

Sorted by distance from Apache EBDU 12

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
Lockhart B 11 001	10/21/50	7751	Wantz; Abo	O	no report	10.75	248	250 sx	Surface	Circ
30-025-06524					no report	7.625	3049	1050 sx	686	Temp survey
D-11-21S-37E					no report	5.5	7750	7750 sx	3030	Temp survey
NEDU 345	10/21/07	6980	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1342	650 sx	Surface	Circ
30-025-38507					7.875	5.5	6980	1300 sx	170	CBL
M-2-21S-37E										
NEDU 421	3/31/05	6951	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1201	500 sx	Surface	Circ 116 sx
30-025-37026					7.875	5.5	7050	1100 sx	45	CBL
A-10-21S-37E										
NEDU 348	12/16/09	7000	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1356	650 sx	Surface	Circ
30-025-39583					7.875	5.5	7000	1150 sx	100	No report
A-10-21S-37E										

Sorted by distance from Apache EBDU 12

NEDU 409	11/5/52	7563	Eunice; Bli-Tu-Dr, N	P & A	17.25	13.375	195	200 sx	Surface	Circ
30-025-06447					12.25	8.625	2999	1700 sx	Surface	Circ
A-10-21S-37E					7.875	5.5	7462	500 sx	4540	Temp Survey
State Section 2 003	7/22/50	7906	Wantz; Abo	O	17.25	13.375	223	300 sx	Surface	Circ
30-025-06369					11	8.625	3150	2200 sx	Surface	Circ
M-2-21S-37E					7.875	5.5	7760	500 sx	5200	No report
NEDU 408	11/29/50	7875	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	228	175 sx	Surface	Circ
30-025-06446					12.25	9.625	2987	1200 sx	780	Temp Survey
A-10-21S-37E					7.875	5.5	7725	500 sx	4815	Temp Survey
NEDU 313	10/12/50	6718	Eunice; Bli-Tu-Dr, N	I	17.25	13.375	228	250 sx	Surface	Circ 80 sx
30-025-06370					11	8.625	3150	1950 sx	Surface	Circ 20 sx
U-2-21S-37E					7.875	5.5	6536	500 sx	2375	FP

Sorted by distance from Apache EBDU 12

NEDU 339	3/24/06	6975	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1274	550 sx	Surface	Circ 157 sx
30-025-37677					7.875	5.5	6975	1200 sx	107	CBL
M-2-21S-37E										
EBDU 100	8/8/09	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1325	650 sx	Surface	Circ 173 sx
30-025-39461					7.875	5.5	6900	1050 sx	Surface	Circ
E-11-21S-37E										
Hawk B 3 001	5/10/90	7975	Penrose Skelly; Grayburg	O	13.75	10.75	259	250 sx	Surface	Circ
30-025-06498					8.75	7.625	3194	1392 sx	1225	Temp Survey
X-3-21S-37E					6.75	5.5	7974	550 sx	2500	CBL
Dauron 003	9/17/51	7780	Wantz; Abo	P&A	17.25	13.375	209	200 sx	Surface	Circ
30-025-06448					11	8.625	3003	1600 sx	1335	Temp Survey
A-10-21S-37E					7.375	5.5	7772	350 sx	4860	Temp Survey

Sorted by distance from Apache EBDU 12

EBDU 013	11/12/51	7811	Eunice; Bli-Tu-Dr, N	I	15	10.75	272	250 sx	Surface	Circ
30-025-06476					9.5	7.625	3149	1200 sx	340	No report
C-11-21S-37E					6.75	5.5	7805	835 sx	Surface	Circ
NEDU 330	10/4/98	6910	Eunice; Bli-Tu-Dr, N	O	11	8.625	1350	410 sx	Surface	Circ 120 sx
30-025-34414					7.875	5.5	6910	1375 sx	Surface	Circ 109 sx
U-2-21S-37E										
NEDU 310	4/23/50	6760	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	224	250 sx	Surface	Circ
30-025-06497					12.25	9.625	3049	1200 sx	1044	Temp Survey
X-3-21S-37E					8.75	7	6759	775 sx	2975	Temp Survey
EBDU 064	6/6/07	6975	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1320	600 sx	Surface	Circ
30-025-38301					7.875	5.5	6975	1150 sx	90	CBL
D-11-21S-37E										

Sorted by distance from Apache EBDU 12

NEDU 314	9/16/56	5910	Eunice; Bli-Tu-Dr, N	P&A	17	13.375	288	300 sx	Surface	Circ 25 sx
30-025-06490					11	8.625	3136	1100 sx	Surface	Circ 175 sx
U-2-21S-37E					7.875	5.5	5799	200 sx	5050	Calc
Hawk B 3 006	9/29/51	7825	Paddock	P&A	no report	10.75	260	250 sx	Surface	Circ
30-025-06503					no report	7.625	3149	1420 sx	575	Temp Survey
X-3-21S-37E					no report	5.5	7805	625 sx	3230	Temp Survey
Hawk B 10 001	5/9/53	6625	Penrose Skelly; Grayburg	O	13.75	10.75	180	150 sx	Surface	Circ
30-025-06475					8.75	7.625	3005	900 sx	1415	Temp Survey
H-10-21S-37E					6.75	5.5	6453	315 sx	3580	CBL
Lockhart B 11 003	8/20/63	7659	Penrose Skelly; Grayburg	O	15	10.75	262	250 sx	Surface	Circ
30-025-06525					9.875	7.625	3099	1680 sx	Surface	Circ
E-11-21S-37E					6.75	5.5	7658	546 sx	880	CBL

Sorted by distance from Apache EBDU 12

NEDU 411	1/28/14	6945	Eunice; Bli-Tu-Dr, N	O	11	8.625	1265	440 sx	Surface	Circ 41 sx
30-025-41576					7.875	5.5	6945	1325 sx	110	CBL
A-10-21S-37E										
NEDU 355	11/14/13	6962	Eunice; Bli-Tu-Dr, N	O	11	8.625	1349	470 sx	Surface	Circ 134 sx
30-025-41286					7.875	5.5	6962	1325 sx	100	CBL
P-3-21S-37E										
NEDU 359	Plan	7000	Eunice; Bli-Tu-Dr, N	O	11	8.625	1440	715	GL	N/A
30-025-43042					7.875	5.5	7000	950	GL	N/A
P-3-21S-37E										
NEDU 329	9/19/98	6850	Eunice; Bli-Tu-Dr, N	O	11	8.625	1350	410 sx	Surface	Circ 105 sx
30-025-34432					7.875	5.5	6850	1545 sx	Surface	Circ 153 sx
W-3-21S-37E										

Sorted by distance from Apache EBDU 12

NEDU 333	6/20/01	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1358	460 sx	Surface	Circ 71 sx
30-025-35404					7.875	5.5	6950	1335 sx	Surface	Circ 90 sx
V-2-21S-37E										
NEDU 410	6/29/51	7728	Eunice; Bli-Tu-Dr, N	I	13.75	10.75	260	250 sx	Surface	Circ
30-025-06453					9.875	7.625	3099	1695 sx	550	Temp Survey
H-10-21S-37E					6.75	5.5	7727	529 sx	Surface	Circ
EBDU 099	10/6/10	7204	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1378	700 sx	Surface	Circ 189 sx
30-025-39865					7.875	5.5	7204	1425 sx	100	CBL
C-11-21S-37E										
State Section 2 007	7/13/51	7854	Wantz; Abo	O	17.25	13.375	225	250 sx	Surface	Circ
30-025-06373					11	8.625	3152	1950 sx	Surface	Circ 146 sx
N-2-21S-37E					7.875	5.5	7852	900 sx	Surface	Circ

Sorted by distance from Apache EBDU 12

EBDU 027	2/9/53	6635	Eunice; Bli-Tu-Dr, N	I	15.75	13.375	174	200 sx	Surface	Calc
30-025-06535					12.25	8.625	3043	900 sx	745	Calc
E-11-21S-37E					7.75	5.5	6464	250 sx	5299	Calc
NEDU 417	8/3/01	6820	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1225	460 sx	Surface	Circ 87 sx
30-025-35545					7.875	5.5	6880	1375 sx	Surface	Circ 126 sx
G-10-21S-37E										
NEDU 406	2/21/51	7950	Eunice; Bli-Tu-Dr, N	O	No report	10.75	253	250 sx	Surface	Circ
30-025-06451					No report	7.625	3087	1210 sx	550	No report
B-10-21S-37E					No report	5.5	7980	625 sx	3180	Temp Survey
EBDU 065	3/30/08	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1396	650 sx	Surface	Circ
30-025-38760					7.875	5.5	6950	1300 sx	150	CBL
C-11-21S-37E										

Sorted by distance from Apache EBDU 12

NEDU 364	3/27/13	6950	Eunice; Bli-Tu-Dr, N	O	11	8.625	1330	475 sx	Surface	Circ 42 sx
30-025-41051					7.875	5.5	6953	1100 sx	158	CBL
O-3-21S-37E										
State Section 2 005	12/4/50	7956	Wantz; Abo	P&A	17.25	13.375	224	250 sx	Surface	Circ 40 sx
30-025-06371					11	8.625	3142	2000 sx	Surface	Circ 30 sx
L-2-21S-37E					7.875	5.5	7810	500 sx	4550	FP
EBDU 101	6/29/10	7211	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1340	700 sx	Surface	Circ
30-025-39678					7.875	5.5	7051	1400 sx	94	CBL
E-11-21S-37E										
NEDU 326	6/4/98	6850	Eunice; Bli-Tu-Dr, N	O	11	8.625	1370	410 sx	Surface	Circ 105 sx
30-025-34365					7.875	5.5	6850	1254 sx	Surface	Circ 135 sx
P-3-21S-37E										

Sorted by distance from Apache EBDU 12

NEDU 311	8/12/49	6746	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	226	300 sx	Surface	Circ
30-025-06367					11	8.625	3046	2000 sx	Surface	Circ 60 sx
T-2-21S-37E					7.875	5.5	6670	500 sx	3450	FP
EBDU 025	12/27/61	7450	Eunice; Bli-Tu-Dr, N	O	No report	13.375	322	250 sx	Surface	Circ
30-025-06531					No report	9.625	2912	950 sx	1500	Temp Survey
F-11-21S-37E					No report	7	7450	770 sx	1200	No report
NEDU 405	10/29/56	6723	Eunice; Bli-Tu-Dr, N	I	13.75	10.75	245	200 sx	Surface	Circ
30-025-06450					9.875	7.625	3049	935 sx	600	Temp Survey
B-10-21S-37E					6.75	5.5	6722	452 sx	3155	Temp Survey
NEDU 336	12/27/04	7000	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1262	575 sx	Surface	Circ 54 sx
30-025-36808					7.875	5.5	7000	1200 sx	65	No report -
N-2-21S-37E										

Sorted by distance from Apache EBDU 12

NEDU 317	4/16/56	5914	Eunice; Bli-Tu-Dr, N	P & A	17	13.375	283	300 sx	Surface	Circ 50 sx
30-025-06488					11	8.625	3148	1500 sx	Surface	Circ 400 sx
V-2-21S-37E					7.875	5.5	5913	100 sx	5304	Calc
NEDU 309	3/10/51	8021	Eunice; Bli-Tu-Dr, N	I	No report	10.75	268	250 sx	Surface	Circ
30-025-06499					No report	7.625	3128	1145 sx	no report	no report
Q-3-21S-37E					No report	5.5	8014	550 sx	2550	Temp Survey
NEDU 354	Plan	7025	Eunice; Bli-Tu-Dr, N	O	11	8.625	1400	715	GL	N/A
30-025-43041					7.875	5.5	7025	950	GL	N/A
J-3-21S-37E										
NEDU 308	12/30/49	6753	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	232	250 sx	GL	Circ
30-025-06494					9.625	9.625	2895	1000 sx	1350	Temp Survey
Q-3-21S-37E					8.75	7	6752	625 sx	2850	Temp Survey

Sorted by distance from Apache EBDU 12

NEDU 307	2/14/50	6674	Eunice; Bli-Tu-Dr, N	I	17.25	13.375	224	300 sx	Surface	Circ
30-025-06513					11	8.625	3148	3700 sx	1680	Temp Survey
W-3-21S-37E					7.875	5.5	6674	500 sx	3600	FP
Livingston 003	2/11/51	8094	Penrose Skelly; Grayburg	O	17.25	13.375	224	250 sx	Surface	Circ
30-025-06514					11	8.625	3147	2200 sx	Surface	Circ
W-3-21S-37E					7.875	5.5	7968	1090 sx	5345	CBL
State Section 2 021	7/27/56	5925	Hare-San Andres	P&A	17.5	13.375	301	300 sx	Surface	Circ
30-025-06489					11	8.875	3148	1200 sx	Surface	Circ 500 sx
T-2-21S-37E					7.875	5.5	5922	100 sx	5160	Calc
EBDU 073	9/18/09	6978	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1430	850 sx	Surface	Circ
30-025-39380					7.875	5.5	6978	1150 sx	Surface	Circ
G-11-21S-37E										

Sorted by distance from Apache EBDU 12

NEDU 509	2/14/52	7576	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	233	275 sx	Surface	Circ
30-025-06537					11	8.625	3010	2450 sx	Surface	Circ
L-11-21S-37E					7.875	5.5	7490	500 sx	4310	Temp survey
NEDU 278	11/5/13	6953	Eunice; Bli-Tu-Dr, N	O	11	8.625	1630	625 sx	Surface	Circ 137 sx
30-025-41287					7.875	5.5	6965	1325 sx	239	CBL
I-3-21S-37E										



LEASE NAME
WELL #
API #
COUNTY

State Section 2

5

30-025-06371

Lea

WELL BORE INFO.

P&A 5-5-11

spud 12-4-50

1880 FSL & 560 FWL

2-21S-37E

13 3/8" 32.4# @ 224'
w/250 sx to surf

TOC GL
pump 80 sx
perf @ 274'

TOC 1315'
sqz 60 sx
perf @ 1500'

8 5/8" 32# # 3142'
w/2000 sx to surf

TOC 2532'
sqz 175 sx
perf @ 3192'

Csg. Leak @ 4937-4969'
pumped 50 sx cmt. & tagged @ 4388'.
pressure tested w/ 500#.

CIBP @ 6900' w/ 35' cmt. (1986)
Perfs @ 7097'-7243'

CICR @ 7475' sqzd 200 sx
Perfs @ 7534'-7655'
Perfs @ 7739'-7759'

CICR @ 7800' sqzd 200 sx
Ellenburger perfs sqzd (82) Unkn depth

5 1/2" 15.5# @ 7810'
w/500 sx TOC @ 4550'

PBTD @ 4388'
TD @ 7956'

EXHIBIT G



WELL BORE INFO.

P&A 10-5-11

spud 11-5-52

LEASE NAME

NEDU

WELL #

409

API#

30-025-06447

COUNTY

Lea

660 FNL & 525 FEL

10-21s-37e

13 3/8" 48# @ 195'
w/200 sx CIRC to surf

8 5/8" 28# @ 2999'
w/1700 sx CIRC to surf

TOC 4540'

CIBP @ 5565' w/35' cmt

Blincy perfs @ 5650'-5705'
perfs @ 5754' - 5784'
perfs @ 5871'-5878'
Sqzd w/ 200 sx cmt

CICR @ 5928' w/2 sx
Blincy Sqd perfs @ 6033' - 6140'
w/90 sx cmt

CIBP @ 6450 w/ 2 sx cmt

Model "D" pkr @ 6510'

Drinkard perfs @ 6530' - 6696'

5 1/2" 15.5# @ 7462'
w/500 sx cmt

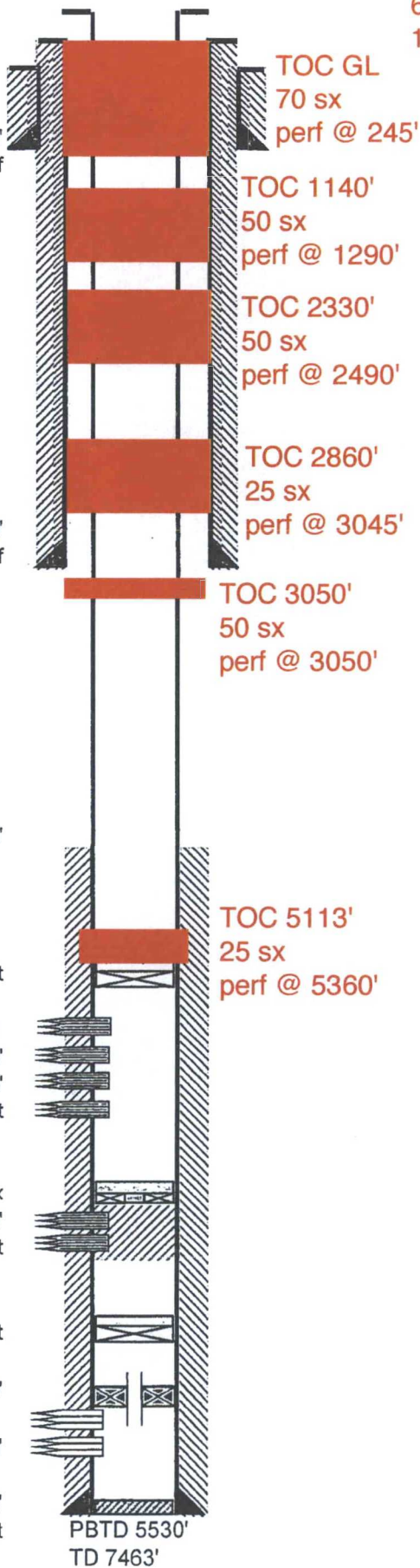


EXHIBIT G

Well: Dauron # 3 (from WFX-774)

Field: Hare

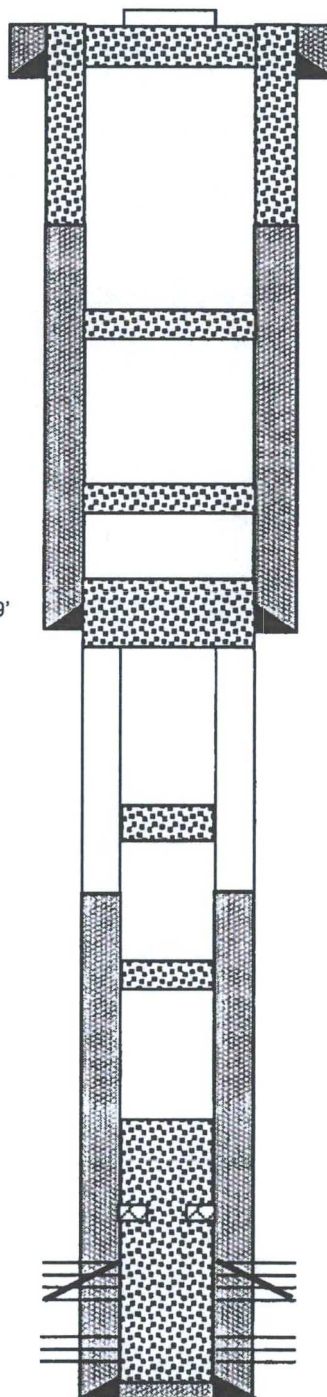
Location: 330' FNL & 990' FEL
Unit A, Sec. 10, T21S, R37E
Lea County, New Mexico

API #: 30-025-06448

Current Status: P&A (3/93)

Install P&A Marker
Perf 4-way shot @ 280'
Cmt to Surface (200 sx)

Elevation: 3414' (GR)



17-1/4" Hole
13-3/8" 48# H-40 CSA 225'
Cement w / 200 sx
Circulated to Surface

11" Hole
8-5/8" 28# H-40 CSA 3002'
Cement w / 1800 sx
TOC @ 1335' (Temp Survey)

Cmt Plug @ 1540' (35 sx)

Cmt Plug @ 2560' (35 sx)

Cut & Pull 5-1/2" Casing @ 3119'
Cmt Plug 2941'-3119' (50 sx)

Cmt Plug @ 4350' (35 sx)

Cmt Plug @ 5360' (25 sx)

Cmt Plug thru packer
stuck @ 6717' (200 sx)

Abo Perfs:
6847-7377
Cmt sqz w/ 200 sx

Hare Perfs:
7460-7692

TD @ 7780'

7-7/8" Hole
5-1/2" 15.5/17# J-55 CSA 7772'
Cement w / 350 sx
TOC @ 4860' (Temp Survey)

EXHIBIT G



WELL BORE INFO.
P&A 9-16-11
spud 4-16-56

LEASE NAME	Northeast Drinkard Unit
WELL #	317
API #	30-025-06488
COUNTY	Lea

990 FSL & 2300 FWL
2-21s-37e

13 3/8" 48# @ 283'
w/ 300 sx circ to surf

8 5/8" 32# @ 3148'
w/1500 sx cmt to surf

Csg lk @ 4914'-4977' sqzd w/ 500 sx
Cal TOC of sqz @ 1930'

Cal TOC @ 5304'

Blincy I perfs @ 5672'-5737'
sqzd w/ 150 sx cmt

Blincy II perfs @ 5807'-5837'
sqzd w/ 150 sx cmt

Blincy III perfs @ 5856'-5893'
sqzd w/ 150 sx cmt

5 1/2" 15.5# @ 5914'
w/ 100 sx cmt Cal TOC @ 5304'

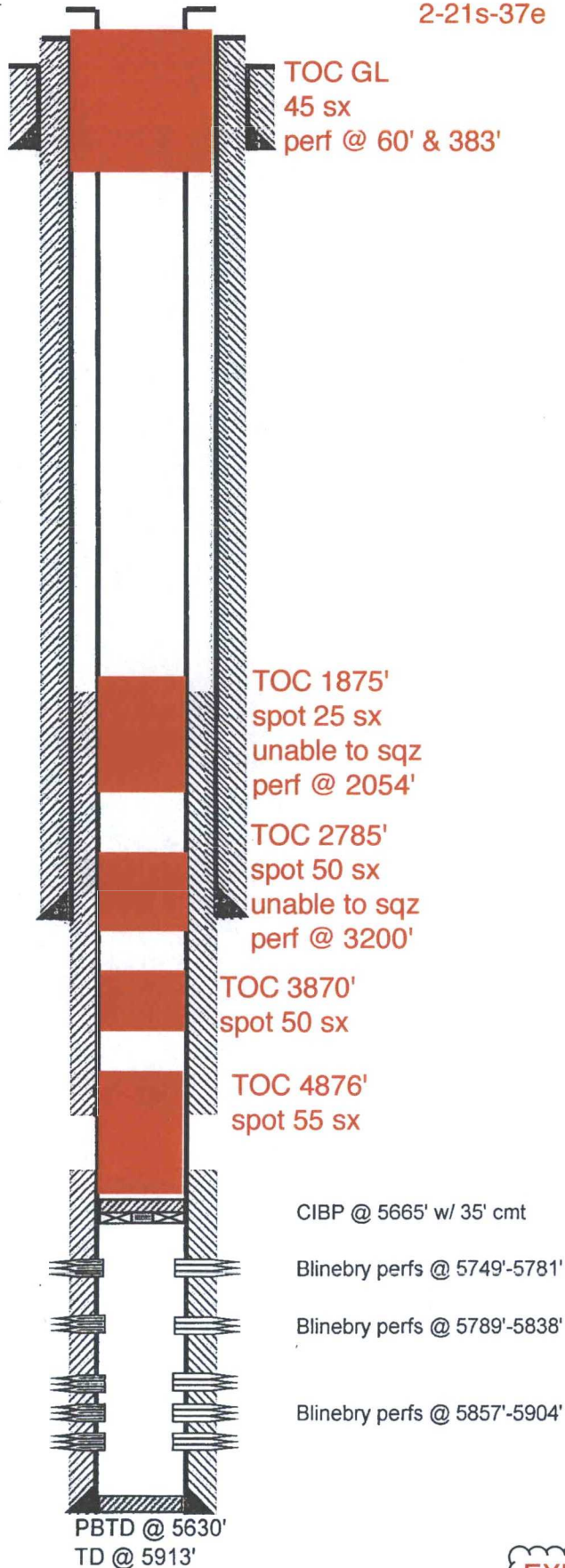


EXHIBIT G



WELL BORE INFO.

P&A 6-1-11
spud 7-27-56

13-3/8" 48# @ 302' w/ 300 sx circ.

8-5/8" 32# @ 3148' w/ 1400 sx circ.
TOC @ 3140' w/ CBL

CIBP @ 4050' (9/28/89) w/ no cmt
SA perfs @ 4055' - 5058'

Csg leaks @ 4975' -5003'
Sqzd w/ 500 sx cmt
Csg leaks @ 5040'-5103'
Sqzd w/ 35 sx cmt

CIBP @ 5600' w/ 35' cmt (1987)
Blinbry perfs @ 5666-5903'

5-1/2" 15.5# @ 5922' W/ 100 SX

TD @ 5925'

LEASE NAME	STATE SEC. 2 (NEDU #312)
WELL #	21
API #	30-025-06489
COUNTY	LEA

2205 FSL & 988 FWL
2-21s-37e

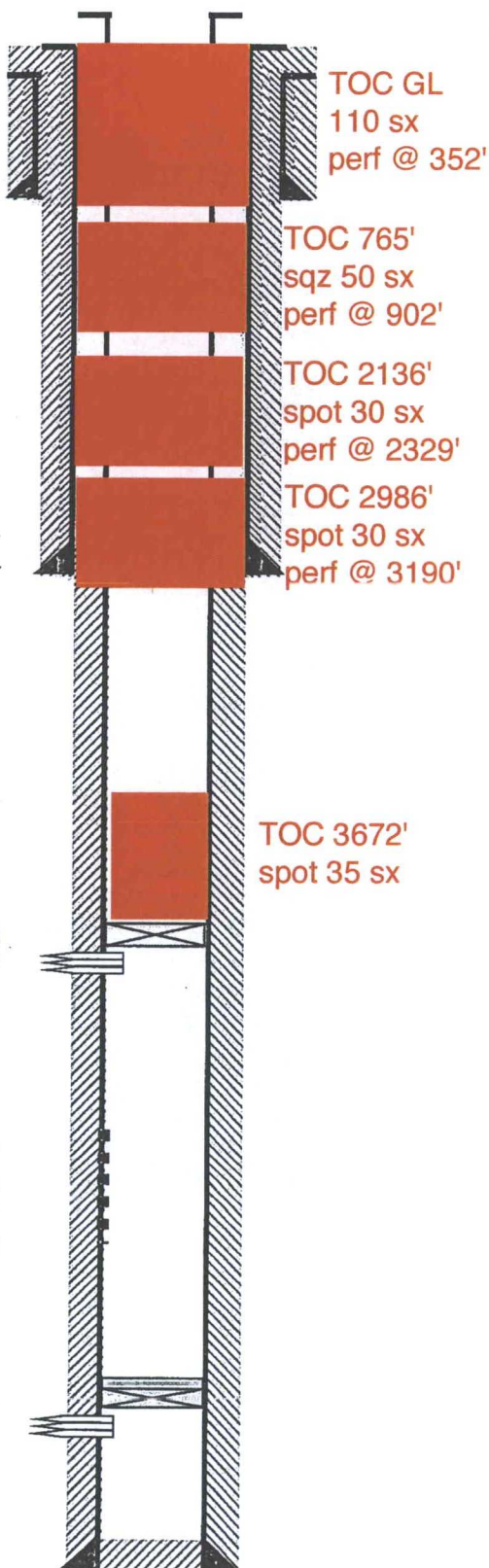


EXHIBIT G

Northeast Drinkard Unit # 314

30-025-06490

Sec. 2, T-21S, R-37E, Unit U

Lea County, New Mexico

990 FSL & 990 FWL

Date: 10/3/2003

P&A 2-16-04

spud 9-16-56

Elev: 3471' GL

TOC GL
sqz 100 sx
perf @ 353'

Surface Casing:
13-3/8" 48# @ 303', w/ 300 sx cmt
Circulated 25 sx cmt

TOC 1304'
sqz 50 sx
perf @ 1400'

Intermediate Casing:
8-5/8" 32# @ 3148'
w/ 1100 sx cmt
Circulated 175 sx cmt

TOC 3070'
sqz 50 sx
perf @ 3198'

set cmt retainer @ 4200'
sqz 100 sx below
5 sx left on top

Casing Parted @ 4285' (08/1999)

Top of cut 2-3/8" tbg @ 4434'
(1579' of tubing lost in hole below parted casing)

Production Casing:
5-1/2", 15.5# @ 5812'
w/ 200 sx cmt- (calc) TOC @ 5050'

Blinbry-Tubb-Drinkard
Perfs: 5654-5759' - 1 JSPF, 15 holes

Blinbry-Tubb-Drinkard
Perfs: 5777-5800' - 2 SPF

Blinbry-Tubb-Drinkard
Open Hole: 5812-5910'

TD @ 5910'

EXHIBIT G

Current Status: P&A (11/89)

Location: 810' FSL & 660' FEL
Unit P, Sec. 3, T21S, R37E
Lea County, New Mexico

API #: 30-025-06503

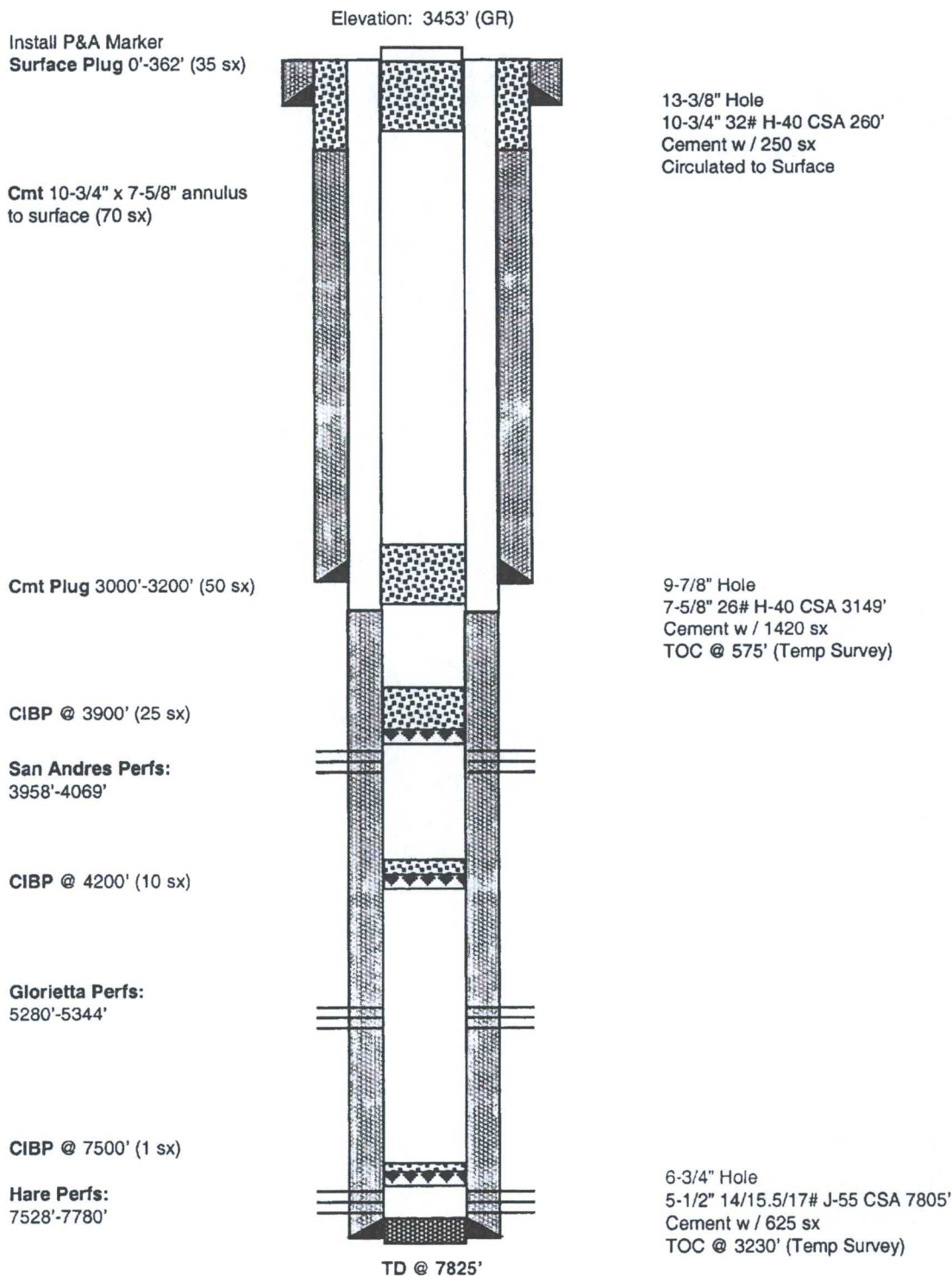


EXHIBIT G



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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00286 POD1		CP	LE	2	1	2	10	21S	37E	674019	3597338*	601	70		
CP 00552		CP	LE	2	4	04		21S	37E	672700	3598022*	2033	90	75	15
CP 00553		CP	LE	2	4	04		21S	37E	672700	3598022*	2033	90	75	15
CP 00197	O	CP	LE	1	4	1	01	21S	37E	676611	3598599*	2348	85		
CP 00197 POD1		CP	LE	1	4	1	01	21S	37E	676611	3598599*	2348	85		
CP 00554		CP	LE	2	2	16		21S	37E	672744	3595610*	2560	80	70	10
CP 01185 POD1		CP	LE	1	3	14		21S	37E	674598	3594689	2663	70		
CP 01185 POD2		CP	LE	1	3	14		21S	37E	674623	3594674	2678	70		
CP 01110 POD1		CP	LE	1	3	14		21S	37E	674586	3594648	2704	70		
CP 01110 POD2		CP	LE	1	3	14		21S	37E	674586	3594648	2704	70		
CP 01110 POD3		CP	LE	1	3	14		21S	37E	674586	3594648	2704	70		
CP 01110 POD4		CP	LE	1	3	14		21S	37E	674586	3594648	2704	20		
CP 01110 POD5		CP	LE	1	3	14		21S	37E	674586	3594648	2704	20		
L 13546 POD1		L	LE	4	4	3	34	20S	38E	675011	3600037	2712	88		
CP 01185 POD3		CP	LE	1	3	14		21S	37E	674592	3594620	2733	70		
CP 00137 POD1		CP	LE	2	2	1	13	21S	37E	676862	3595783*	2737	65		
CP 01185 POD4		CP	LE	1	3	14		21S	37E	674633	3594610	2742	70		
CP 01574 POD1		CP	LE	2	4	4	15	21S	37E	674559	3594598	2755	68	57	11
CP 01574 POD2		CP	LE	1	3	3	14	21S	37E	674666	3594578	2774	68	57	11
CP 00729 POD1		CP	LE	4	1	3	15	21S	37E	673259	3594711*	2971	8015		
CP 00235 POD3		CP	LE	1	1	1	23	21S	37E	674681	3594137*	3216	90	61	29

Average Depth to Water: **65 feet**
Minimum Depth: **57 feet**
Maximum Depth: **75 feet**

Record Count: 21

UTM NAD83 Radius Search (in meters):

Easting (X): 674620

Northing (Y): 3597353

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.

11/5/17 1:50 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

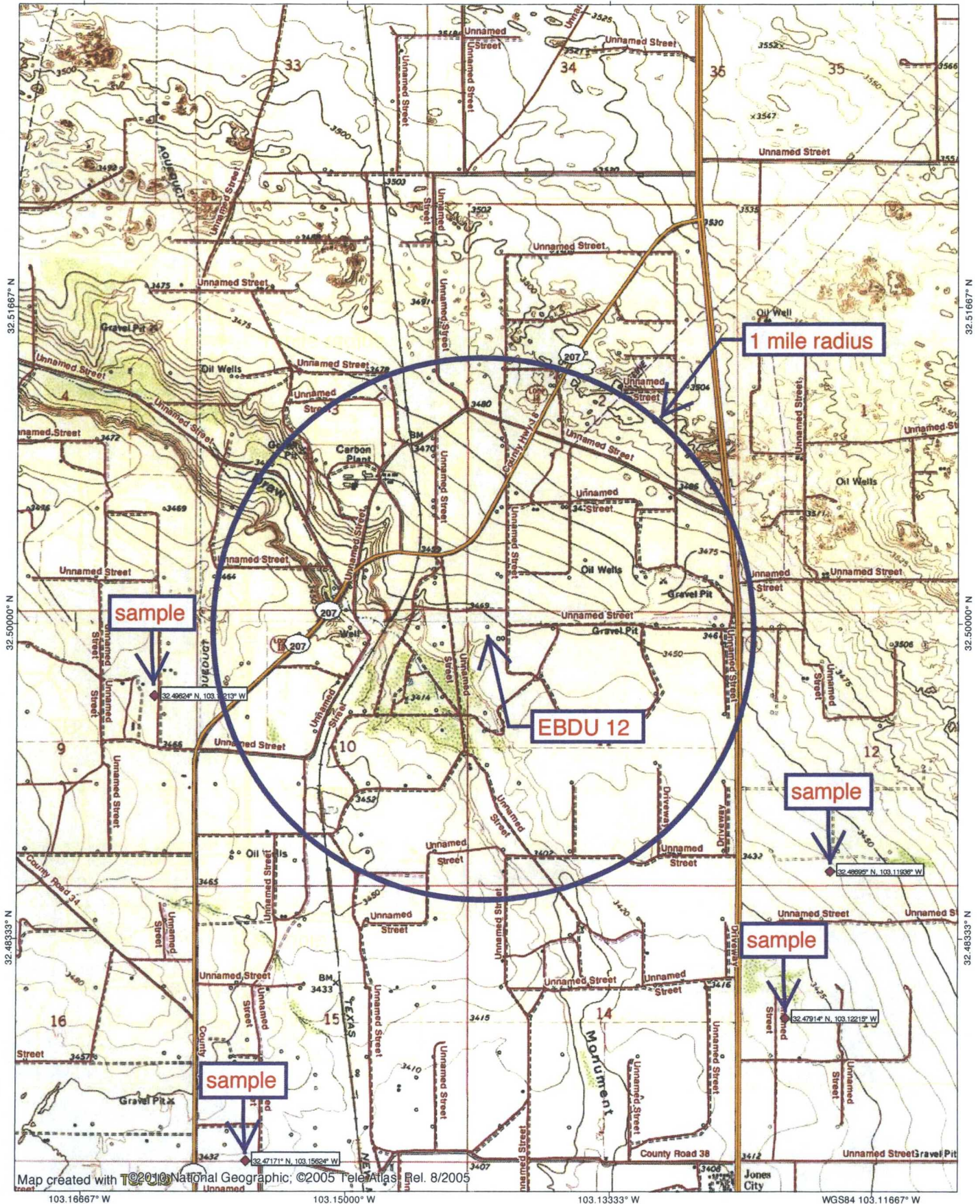
EXHIBIT H

103.16667° W

103.15000° W

103.13333° W

WGS84 103.11667° W



Map created with TPO! National Geographic; ©2005 TeleAtlas Rel. 8/2005

103.16667° W

103.15000° W

103.13333° W

WGS84 103.11667° W

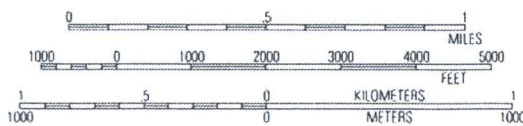
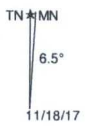


EXHIBIT H



Analytical Report

Lab Order 1708C75

Date Reported: 9/11/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Permits West**Client Sample ID:** Section 12 Tank**Project:** Apache EBDU 24 et al**Collection Date:** 8/18/2017 10:28:00 AM**Lab ID:** 1708C75-001**Matrix:** AQUEOUS**Received Date:** 8/22/2017 2:00:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	670	25	*	mg/L	50	8/31/2017 6:31:12 PM
EPA METHOD 1664B						Analyst: MAB
N-Hexane Extractable Material	ND	10.7		mg/L	1	9/1/2017
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: SRM
Total Dissolved Solids	1770	20.0	*	mg/L	1	8/25/2017 5:04:00 PM

EXHIBIT H

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1708C75

Date Reported: 9/11/2017

CLIENT: Permits West

Client Sample ID: Section 13 WM

Project: Apache EBDU 24 et al

Collection Date: 8/18/2017 11:19:00 AM

Lab ID: 1708C75-002

Matrix: AQUEOUS

Received Date: 8/22/2017 2:00:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	280	10	*	mg/L	20	8/25/2017 12:24:29 AM
EPA METHOD 1664B						Analyst: MAB
N-Hexane Extractable Material	ND	9.95		mg/L	1	9/1/2017
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: SRM
Total Dissolved Solids	930	20.0	*	mg/L	1	8/25/2017 5:04:00 PM

EXHIBIT H

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting 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 1708C75

Date Reported: 9/11/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Permits West**Client Sample ID:** Decky Pond**Project:** Apache EBDU 24 et al**Collection Date:** 8/18/2017 2:20:00 PM**Lab ID:** 1708C75-003**Matrix:** AQUEOUS**Received Date:** 8/22/2017 2:00:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	360	10	*	mg/L	20	8/25/2017 12:49:18 AM
EPA METHOD 1664B						Analyst: MAB
N-Hexane Extractable Material	ND	9.93		mg/L	1	9/1/2017
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: SRM
Total Dissolved Solids	1040	20.0	*	mg/L	1	8/25/2017 5:04:00 PM

EXHIBIT H

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting 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 1708C75

Date Reported: 9/11/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Permits West**Project:** Apache EBDU 24 et al**Lab ID:** 1708C75-004**Client Sample ID:** Section 15 Tank**Collection Date:** 8/18/2017 5:17:00 PM**Received Date:** 8/22/2017 2:00:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
Chloride	660	25	*	mg/L	50	Analyst: MRA 9/5/2017 6:57:19 PM
EPA METHOD 1664B						
N-Hexane Extractable Material	ND	10.1		mg/L	1	Analyst: MAB 9/1/2017
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	1730	40.0	*D	mg/L	1	Analyst: SRM 8/25/2017 5:04:00 PM

EXHIBIT H

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 7
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708C75

11-Sep-17

Client: Permits West

Project: Apache EBDU 24 et al

Sample ID	MB-33659	SampType:	MBLK	TestCode:	EPA Method 1664B					
Client ID:	PBW	Batch ID:	33659	RunNo:	45373					
Prep Date:	9/1/2017	Analysis Date:	9/1/2017	SeqNo:	1437730	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10.0								

Sample ID	LCS-33659	SampType:	LCS	TestCode:	EPA Method 1664B					
Client ID:	LCSW	Batch ID:	33659	RunNo:	45373					
Prep Date:	9/1/2017	Analysis Date:	9/1/2017	SeqNo:	1437731	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	33.8	10.0	40.00	0	84.5	78	114			

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

EXHIBIT H

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708C75

11-Sep-17

Client: Permits West
Project: Apache EBDU 24 et al

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R45189	RunNo:	45189					
Prep Date:		Analysis Date:	8/24/2017	SeqNo:	1432143	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R45189	RunNo:	45189					
Prep Date:		Analysis Date:	8/24/2017	SeqNo:	1432144	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	5.0	0.50	5.000	0	100	90	110			

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R45380	RunNo:	45380					
Prep Date:		Analysis Date:	8/31/2017	SeqNo:	1437942	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R45380	RunNo:	45380					
Prep Date:		Analysis Date:	8/31/2017	SeqNo:	1437943	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.8	90	110			

Sample ID	MB	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	A45445	RunNo:	45445					
Prep Date:		Analysis Date:	9/5/2017	SeqNo:	1439920	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS-b	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	A45445	RunNo:	45445					
Prep Date:		Analysis Date:	9/5/2017	SeqNo:	1439922	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	91.9	90	110			

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

Page 6 of 7

EXHIBIT H

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708C75

11-Sep-17

Client: Permits West
Project: Apache EBDU 24 et al

Sample ID	MB-33526	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	PBW	Batch ID:	33526	RunNo:	45227
Prep Date:	8/23/2017	Analysis Date:	8/25/2017	SeqNo:	1432473 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	ND	20.0			

Sample ID	LCS-33526	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	LCSW	Batch ID:	33526	RunNo:	45227
Prep Date:	8/23/2017	Analysis Date:	8/25/2017	SeqNo:	1432474 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	1030	20.0	1000	0	103 80 120

Sample ID	1708C75-004AMS	SampType:	MS	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	Section 15 Tank	Batch ID:	33526	RunNo:	45227
Prep Date:	8/23/2017	Analysis Date:	8/25/2017	SeqNo:	1432494 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	3830	40.0	2000	1728	105 80 120 D

Sample ID	1708C75-004AMSD	SampType:	MSD	TestCode:	SM2540C MOD: Total Dissolved Solids
Client ID:	Section 15 Tank	Batch ID:	33526	RunNo:	45227
Prep Date:	8/23/2017	Analysis Date:	8/25/2017	SeqNo:	1432495 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Total Dissolved Solids	3850	40.0	2000	1728	106 80 120 0.625 5 D

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Page 7 of 7

EXHIBIT H

Ogallala
boundary

1/2 mile

32.49974, -103.14128

EBDU 12





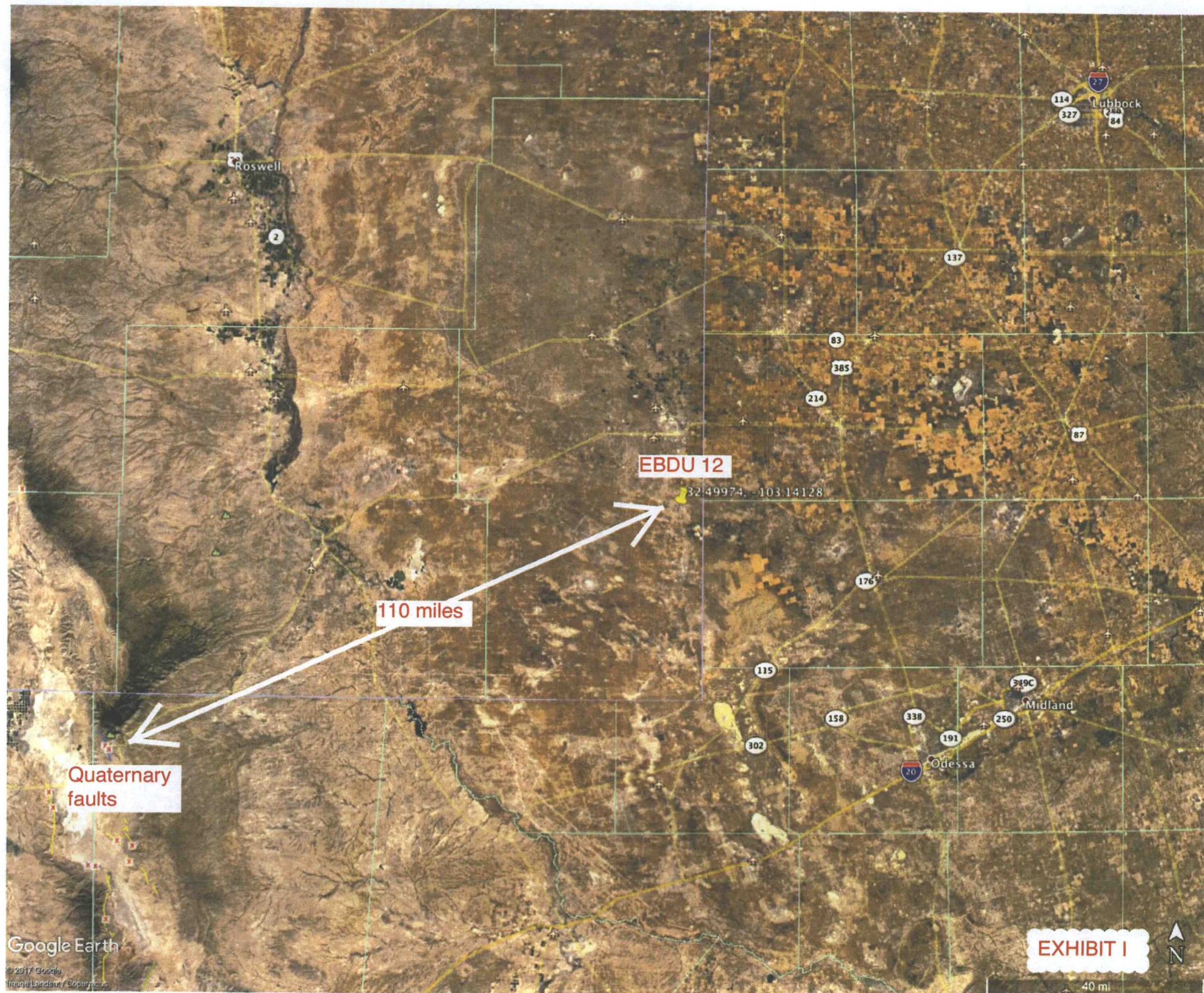
Form C-108
Affirmative Statement
Apache Corporation
East Blinbry Drinkard Unit
Section 11, T-21-S, R-37-E
Lea County, New Mexico

The extractions from the seismic data show no evidence of faulting at (or above) the Glorieta in this area and surface mapping from the USGS confirms that no faults are known at the surface. In addition, we have no empirical evidence that our injection operations at EBDU are affected by faulting at the Glorieta level, the evaporites, or the surface. Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

Justin Wagner
Geologist I

8/14/2017

Date



Google Earth

© 2017 Google
Image Landsat / Copernicus

EXHIBIT I

40 mi

Affidavit of Publication

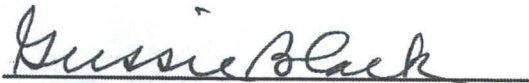
STATE OF NEW MEXICO
COUNTY OF LEA

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
August 16, 2017
and ending with the issue dated
August 16, 2017.


Publisher

Sworn and subscribed to before me this
16th day of August 2017.


Business Manager

My commission expires
January 29, 2019

(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-19

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

LEGALS

LEGAL NOTICE August 16, 2017

Apache Corporation is applying to convert the East Blinbry Drinkard Unit 12 oil well to a water injection well. The well is at 330 FNL & 330 FWL, Sec. 11, T. 21 S., R. 37 E., Lea County, NM. This is 4 miles north-northeast of Eunice, NM. It will inject water into the Blinbry (maximum injection pressure = 2,100 psi) from 5,618' to 6,073'. Injection will be at a maximum rate of 500 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. #31999

02108485

00198025

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

EXHIBIT J

PERMITS WEST INC.
PROVIDING PERMITS for LAND USERS
17 Verano Loop, Santa Fe, New Mexico 87501 (505) 466-0120

November 20, 2017

W F M Ranch Ltd et al
PO Box 21116
Billings MT 59104

TYPICAL LETTER

Apache Corporation is applying (see attached application) to convert its East Blinebry Drinkard Unit 12 oil well to a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: East Blinebry Drinkard Unit 12 (BLM lease) TD = 6,818'

Proposed Injection Zone: Blinebry from 5,618' to 6,073'

Where: 330' FNL & 330' FWL Sec. 11, T. 21 S., R. 37 E., Lea County, NM

Approximate Location: 4 air miles NNE of Eunice, NM

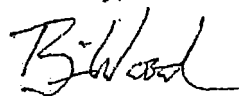
Applicant Name: Apache Corporation (432) 818-1062

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

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

Please call me if you have any questions.

Sincerely,



Brian Wood

7017 1450 0000 8558 9756

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☐ Adult Signature Required
☐ Adult Signature Restricted Delivery
Postage
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87552-9998

EXHIBIT K

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:
W F M Ranch
PO Box 21116
Billings, MT 59104
Anachie - EBDU 12
9590 9402 2329 6225 4/64 19

2. Article Number (Transfer from service label)
7017 1450 0000 8558 9756

COMPLETE THIS SECTION ON DELIVERY

A. Signature *[Signature]* ☒ Agent ☐ Addressee
B. Received by (Printed Name) **JO ANN MCNEIL** C. Date of Delivery **12-1-17**
D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

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

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

7017 1450 0000 8558 9824

U.S. Postal ServiceTM CERTIFIED MAIL[®] RECEIPT Domestic Mail Only

For delivery information, visit our website at 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

Sent To **Petro Strategies Inc.**

Street and Apt. No., or PO Box No.

PO Box 5562

City, State, ZIP+4[®] **Midland, TX 79704**

Apache EBDU 12

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

PECOS NM
Postmark
Here
NOV 20 2017

7552-9998

7017 1450 0000 8558 9800

U.S. Postal ServiceTM CERTIFIED MAIL[®] RECEIPT Domestic Mail Only

For delivery information, visit our website at 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

Sent To **Energen Resources Co.**

Street and Apt. No., or PO Box No.

605 Richard Arrington Blvd.

City, State, ZIP+4[®] **Birmingham, AL 35203**

Apache EBDU 12

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

PECOS NM
Postmark
Here
NOV 20 2017

7552-9998

7017 1450 0000 8558 9787

U.S. Postal ServiceTM CERTIFIED MAIL[®] RECEIPT Domestic Mail Only

For delivery information, visit our website at 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

Sent To **Occidental Permian Ltd.**

Street and Apt. No., or PO Box No.

PO Box 4294

City, State, ZIP+4[®] **Houston, TX 77210**

Apache EBDU 12

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

PECOS NM
Postmark
Here
NOV 20 2017

7552-9998

1450 0000 8558 9831

U.S. Postal ServiceTM CERTIFIED MAIL[®] RECEIPT Domestic Mail Only

For delivery information, visit our website at 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

Sent To **St. Croix Corp.**

Street and Apt. No., or PO Box No.

13601 Preston, #406E

City, State, ZIP+4[®] **Dallas, TX 75240**

Apache EBDU 12

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

PECOS NM
Postmark
Here
NOV 20 2017

U.S. Postal ServiceTM CERTIFIED MAIL[®] RECEIPT Domestic Mail Only

For delivery information, visit our website at 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

Sent To **Kerr-McGee OG c/o Anadarko**

Street and Apt. No., or PO Box No.

1201 Lake Robbins Dr.

City, State, ZIP+4[®] **The Woodlands, TX 77380**

Apache EBDU 12

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

PECOS NM
Postmark
Here
NOV 20 2017

7552-9998

7017 1450 0000 8558 9817

U.S. Postal ServiceTM CERTIFIED MAIL[®] RECEIPT Domestic Mail Only

For delivery information, visit our website at 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

Sent To **Devon Energy Prod Co LP**

Street and Apt. No., or PO Box No.

333 W. Sheridan Ave.

City, State, ZIP+4[®] **Oklahoma City, OK 73102**

Apache EBDU 12

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

PECOS NM
Postmark
Here
NOV 20 2017

7552-9998

7017 1450 0000 8558 9794

EXHIBIT

7017 1450 0000 8558 9763

CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at 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	\$
Sent To	NM State Land Office
Street and Apt. No., or PO Box No.	PO Box 1148
City, State, ZIP+4®	Santa Fe, NM 87504
	Apache EBDU 12
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7017 1450 0000 8558 9770

CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at 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	\$
Sent To	ExxonMobil Corporation
Street and Apt. No., or PO Box No.	PO Box 4358
City, State, ZIP+4®	Houston, TX 77210
	Apache EBDU 12
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7017 1450 0000 8558 9732

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at 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	\$
Sent To	Conoco Phillips Co
Street and Apt. No., or PO Box No.	PO Box 7500
City, State, ZIP+4®	Bartlesville, OK 74005-7500
	Apache EBDU 12
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7017 1450 0000 8558 9749

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at 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	\$
Sent To	BLM
Street and Apt. No., or PO Box No.	620 E. Greene
City, State, ZIP+4®	Carlsbad, NM 88220
	Apache EBDU 12
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7017 1450 0000 8558 9718

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at 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	\$
Sent To	BP American Production Co
Street and Apt. No., or PO Box No.	PO Box 3092
City, State, ZIP+4®	Houston, TX 77253-3092
	Apache EBDU 12
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

7017 1450 0000 8558 9725

U.S. Postal Service™	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at 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	\$
Sent To	Chevron USA
Street and Apt. No., or PO Box No.	6301 Deauville
City, State, ZIP+4®	Midland, TX 79706-2964
	Apache EBDU 12
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

EXHIBIT K

SENDER: COMPLETE THIS SECTION

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

Article Addressed to:

BLM
620 E. Greene
Carlsbad, NM 88220

Apache - EBDU 12

9590 9402 2329 6225 4764 26

Article Number (Transfer from service label)
7017 1450 0000 8558 9749

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
11/24/17

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

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

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you.

Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Energen Resources Co.
605 Richard Arrington Blvd.
Birmingham, AL 35203

Anache - EBDU 12

9590 9402 2329 6225 4763 65

Article Number (Transfer from service label)
7017 1450 0000 8558 9800

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
11/24/17

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

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

SENDER: COMPLETE THIS SECTION

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

Article Addressed to:

BP American Production Co
PO Box 3092
Houston, TX 77253-3092

Anache - EBDU 12

9590 9402 2329 6225 4764 57

Article Number (Transfer from service label)
7017 1450 0000 8558 9718

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
11/27/17

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

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

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you.

Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

ExxonMobil Corporation
PO Box 4358
Houston, TX 77210

Anache - EBDU 12

9590 9402 2329 6225 4763 96

Article Number (Transfer from service label)
7017 1450 0000 8558 9770

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
11/27/17

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

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

SENDER: COMPLETE THIS SECTION

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

Article Addressed to:

Chevron USA
6301 Deauville
Midland, TX 79706-2964

Anache - EBDU 12

9590 9402 2329 6225 4764 40

Article Number (Transfer from service label)
7017 1450 0000 8558 9725

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
11/27/17

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

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

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you.

Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

NM State Land Office
PO Box 1148
Santa Fe, NM 87504

Anache - EBDU 12

9590 9402 2329 6225 4764 02

Article Number (Transfer from service label)
7017 1450 0000 8558 9763

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
11/27/17

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

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

SENDER: COMPLETE THIS SECTION

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

Article Addressed to:

Conoco Phillips Co
PO Box 7500
Bartlesville, OK 74005-7500

Anache - EBDU 12

9590 9402 2329 6225 4764 33

Article Number (Transfer from service label)
7017 1450 0000 8558 9732

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
NOV 24 17

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

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

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you.

Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Occidental Permian Ltd.
PO Box 4294
Houston, TX 77210

Anache - EBDU 12

9590 9402 2329 6225 4763 89

Article Number (Transfer from service label)
7017 1450 0000 8558 9824

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
11/27/17

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

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

SENDER: COMPLETE THIS SECTION

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

Article Addressed to:

Devon Energy Prod Co LP
333 W. Sheridan Ave.
Oklahoma City, OK 73102

Anache - EBDU 12

9590 9402 2329 6225 4763 12

Article Number (Transfer from service label)
7017 1450 0000 8558 9794

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
11/27/17

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

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

Complete items 1, 2, and 3.

Print your name and address on the reverse so that we can return the card to you.

Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Petro Strategies Inc.
PO Box 5562
Midland, TX 79704

Anache - EBDU 12

9590 9402 2329 6225 4763 41

Article Number (Transfer from service label)
7017 1450 0000 8558 9824

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
11/27/17

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

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



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	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Column
<u>CP 00134 POD1</u>		CP	LE	1	1	1	24	21S	37E	676289	3594166*	85		
<u>CP 00137 POD1</u>		CP	LE	2	2	1	13	21S	37E	676862	3595783*	65		
<u>CP 00235 POD1</u>		CP	LE	2	2	1	23	21S	37E	675283	3594144*	81		
<u>CP 00235 POD10</u>		CP	LE	1	3	2	23	21S	37E	675492	3593749*	92	60	32
<u>CP 00235 POD11</u>		CP	LE	1	3	2	23	21S	37E	675492	3593749*	97	60	37
<u>CP 00235 POD2</u>		CP	LE	1	2	1	23	21S	37E	675083	3594144*	96	65	31
<u>CP 00235 POD3</u>		CP	LE	1	1	1	23	21S	37E	674681	3594137*	90	61	29
<u>CP 00235 POD4</u>		CP	LE	1	3	1	23	21S	37E	674688	3593735*	100	80	20
<u>CP 00235 POD5</u>		CP	LE	1	4	1	23	21S	37E	675090	3593742*	90	70	20
<u>CP 00235 POD6</u>		CP	LE	2	1	1	23	21S	37E	674881	3594137*	85	65	20
<u>CP 00235 POD7</u>		CP	LE	3	1	1	23	21S	37E	674681	3593937*	85	65	20
<u>CP 00235 POD8</u>		CP	LE	3	1	2	23	21S	37E	675485	3593952*	94	58	36
<u>CP 00235 POD9</u>		CP	LE	3	4	1	23	21S	37E	675090	3593542*	94	58	36
<u>CP 00236 POD1</u>		CP	LE	3	1	2	23	21S	37E	675485	3593952*	83		
<u>CP 00237 POD1</u>		CP	LE	1	3	2	23	21S	37E	675492	3593749*	84		
<u>CP 00238 POD1</u>		CP	LE	3	3	2	23	21S	37E	675492	3593549*	81		
<u>CP 00239 POD1</u>		CP	LE	1	1	2	23	21S	37E	675485	3594152*	89	61	28
<u>CP 00240 POD1</u>		CP	LE	4	2	1	23	21S	37E	675283	3593944*			
<u>CP 00241 POD1</u>		CP	LE	4	2	1	23	21S	37E	675283	3593944*	79		

<u>CP 00562</u>	CP	LE	1	2	2	23	21S	37E	675887	3594159*		136	65	71		
<u>CP 00700</u>	CP	LE				2	23	21S	37E	675794	3593851*		75	65	10	
<u>CP 01110 POD1</u>	CP	LE				1	3	14	21S	37E	674586	3594648		70		
<u>CP 01110 POD2</u>	CP	LE				1	3	14	21S	37E	674586	3594648		70		
<u>CP 01110 POD3</u>	CP	LE				1	3	14	21S	37E	674586	3594648		70		
<u>CP 01110 POD4</u>	CP	LE				1	3	14	21S	37E	674586	3594648		20		
<u>CP 01110 POD5</u>	CP	LE				1	3	14	21S	37E	674586	3594648		20		
<u>CP 01185 POD1</u>	CP	LE				1	3	14	21S	37E	674598	3594689		70		
<u>CP 01185 POD2</u>	CP	LE				1	3	14	21S	37E	674623	3594674		70		
<u>CP 01185 POD3</u>	CP	LE				1	3	14	21S	37E	674592	3594620		70		
<u>CP 01185 POD4</u>	CP	LE				1	3	14	21S	37E	674633	3594610		70		
<u>CP 01221 POD1</u>	CP	LE	4	4	4	11	21S	37E	676254	3588506		75	60	15		
<u>CP 01222 POD3</u>	CP	LE	2	4	4	23	21S	37E	676036	3592871		60	48	12		
<u>CP 01574 POD2</u>	CP	LE	1	3	3	14	21S	37E	674666	3594578		68	57	11		

Average Depth to Water: 62 feet

Minimum Depth: 48 feet

Maximum Depth: 80 feet

Record Count: 33

PLSS Search:

Section(s): 11-14, 23-24 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.

1/2/18 2:12 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



FORM C-108 Technical Review Summary [Prepared by reviewer and included with application; V16.2]

DATE RECORD: First Rec: 12/14/2017 Admin Complete: 12/14/2017 or Suspended: _____ Add. Request/Reply: R1235
 ORDER TYPE: WFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: FDZ252

Well No. 12 Well Name(s): EBH4 #12
 API: 30-0 25-06477 Spud Date: July 19, 1951 New or Old (EPA): 0 (UIC Class II Primacy 03/07/1982)
 Footages 330FNL Lot _____ or Unit D Sec 13 Tsp 21S Rge 37E County Lea

General Location: 2 mile S NW 1/4 Sec 13 T21S R37E Pool: EBH4 #12 Pool No.: 22500

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

COMPLIANCE RULE 5.9: Total Wells: 2445 Inactive: 8 Fincl Assur: OK Compl. Order MA IS 5.9 OK? Y Date: 1-24-2018

WELL FILE REVIEWED ☐ Current Status: Active

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

Planned Rehab Work to Well: Set CTBP @ +25x5 cement @ 6085'

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ☐ or Existing ☐ Surface		13 1/4" / 7 1/2"	266	250	SURFACE / U.S.G.
Planned ☐ or Existing ☐ Interm/Prod		8 3/4" / 7 1/2"	3049	1392	1380 / TS
Planned ☐ or Existing ☐ Interm/Prod		6 3/4" / 5 1/2"	6818	375	SURFACE / U.S.G.
Planned ☐ or Existing ☐ Prod/Liner					
Planned ☐ or Existing ☐ Liner					
Planned ☐ or Existing ☐ OH / PERF		5618-6073			

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		DR	6498
Confining Unit: Litho. Struc. Por.		TS	6174
Proposed Inj Interval TOP:		BL	5694
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:	
Drilled TD	6818 PBSD
NEW TD	NEW PBSD
NEW Open Hole ☐ or NEW Perfs ☒	
Tubing Size	2 3/8 in. Inter Coated? <u>Y</u>
Proposed Packer Depth	5568 ft
Min. Packer Depth	5518 (100-ft limit)
Proposed Max. Surface Press.	2100 psi
Admin. Inj. Press.	1125 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P MA Noticed? ☐ BLM Sec Ord ☐ WIPP ☐ Noticed? ☐ Salt/Salado T: 1340 B2470 NW: Cliff House fm

FRESH WATER: Aquifer EBH4 Interm Max Depth 80' HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: CAPITAN CAPITAN REEF: thru _____ adj. NA No. GW Wells in 1-Mile Radius? 1 FW Analysis? _____

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

Disposal Interval: Inject Rate (Avg/Max BWPD): 400/500 Protectable Waters? MA Source: _____ System: Closed or Open

HC Potential: Producing Interval? Y Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mi Radius Pool Map ☐

AOR Wells: 1/2-M Radius Map and Well List? _____ No. Penetrating Wells: _____ [AOR Horizontals: _____ AOR SWDs: _____]

Penetrating Wells: No. Active Wells 40 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 7 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date Aug 16, 2017 Mineral Owner W. F. ... Surface Owner BLM N. Date 12-20-2017

RULE 26.7(A): Identified Tracts? Y Affected Persons: BP, Chevron, XOM OX, COP N. Date _____

Order Conditions: Issues: Inject into BLH by Km.

Additional COAs: _____