Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
1/22/2018	MAM	WFX	pMAM1802249430

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 Blinebry Drinkard Unit 21 **API:** 30-025-06523
Pool: Eunice; BLI-TU-DR, North **Pool Code:** 22900

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW WFX-977

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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2018 JAN 22 A 9: 39

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

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

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

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

Brian Wood
Print or Type Name

B. Wood
Signature

1-20-18
Date

505 466-8120
Phone Number

brian@permitswest.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: XXX Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? XXX 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

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.

EAST BLINEBRY DRINKARD UNIT 21
30-025-06523

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

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

IX. Describe the proposed stimulation program, if any.

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

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

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

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

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

NAME: BRIAN WOOD TITLE: CONSULTANT

SIGNATURE: B Wood DATE: JAN. 2, 2018

E-MAIL ADDRESS: brian@permitswest.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

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.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

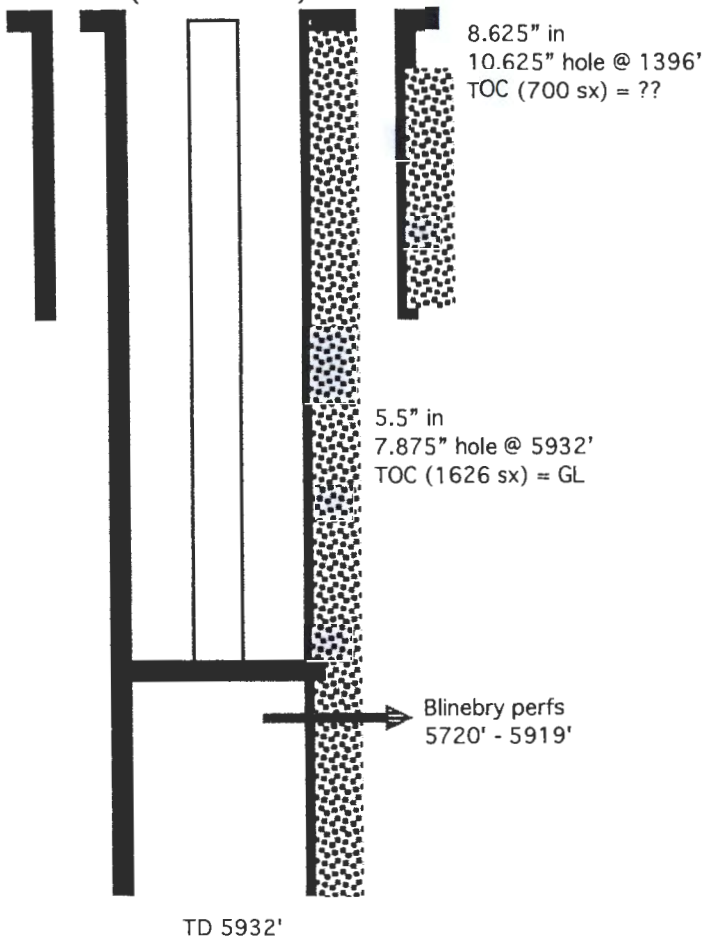
WELL NAME & NUMBER: EAST BLINEBRY DRINKARD UNIT 21

WELL LOCATION:	660' FNL & 1980' FEL	B	11	21 S	37 E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

" AS IS"

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 10.625" Casing Size: 8.625"

Cemented with: 700 sx. *or* _____ ft³

Top of Cement: NO REPORT Method Determined: NO REPORT

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 1626 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: NO REPORT

Total Depth: 5932'

Injection Interval

5645 feet to 5932'

(Perforated or Open Hole; indicate which)

Side 1

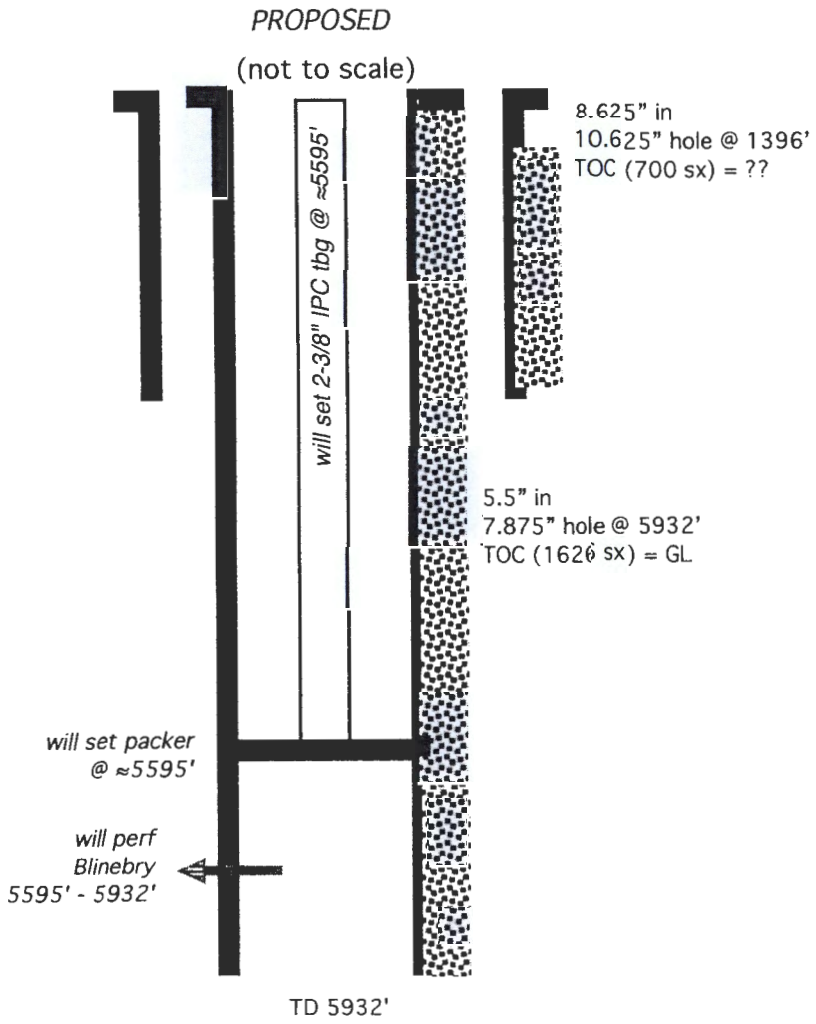
INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: EAST BLINEBRY DRINKARD UNIT 21

WELL LOCATION:	660' FNL & 1980' FEL	B	11	21 S	37 E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 10.625" Casing Size: 8.625"

Cemented with: 700 sx. *or* _____ ft³

Top of Cement: NO REPORT Method Determined: NO REPORT

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 1626 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: NO REPORT

Total Depth: 5932'

Injection Interval

5645 feet to 5932'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COAT

Type of Packer: LOCK SET INJECTION

Packer Setting Depth: ≈5595'

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? BLINEBRY 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 (2637'), 7 RIVERS (2894'), QUEEN (3465'), GRAYBURG (3800'), SAN ANDRES (4010')

   UNDER: TUBB (6106'), DRINKARD (6517'), ABO (6824'), SIMPSON (7610') ELLENBURGER (7755')

I. Goal is to convert a 5932' deep oil well to a water injection well to increase oil recovery. The well will inject (5645' - 5932') 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: 660'
Lease Area: E2 & NW4 Section 11, T. 21 S., R. 37 E. et al
Unit Size: 2080 acres BLM Unit #: NMNM-112723X
Closest Unit Line: 660'
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 (8.625") is set at 1396' in a 10.625" hole and cemented with 700 sacks. No TOC was reported.

Production casing (5.5") is set at 5932' in a 7.875" hole and cemented to GL with 1626 sacks.

A. (3) Tubing will be 2-3/8" J-55 (4.7# IPC or 5.3# fiber lined). Setting depth will be ≈5595'. (Disposal interval will be 5645' - 5932'.)

A. (4) A lock set injection packer will be set at ≈5595' (≈50' above the highest proposed perforation of 5645').

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 5645' to 5932' in a cased hole. Well is now perforated in Blinebry from 5720' to 5919'.

B. (3) Well was originally drilled in 1956 as a Blinebry oil well.

B. (4) Well will be perforated from 5645' to 6932' with 2 shots per foot. Shot diameter = 0.40". Perforation and isolation history is below:

Depth	Zone	Action
5645'	*Blinebry*	*Top proposed injection interval*
5720' – 5753'	Blinebry	open perfs
5770' – 5919'	Blinebry	open perfs
5932'	*Blinebry*	*Bottom proposed injection interval*

B. (5) Next higher oil or gas zone in the area of review is the San Andres. Its bottom is at 5271'. Injection will occur in the Blinebry. Highest perforation will be 5645'.

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 ≈6190'. Deepest perforation will be 5932'.

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 40 existing wells (24 oil wells + 11 injectors + 5 P & A wells) within a half-mile radius, regardless of depth. Exhibit C shows all 589 existing wells (404 oil or gas wells + 112 injection or disposal wells + 54 P&A wells + 18 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
SWSW Sec. 1	BLM	NMLC-0065525B	Sheridan	Apache
SE4 Sec. 2	NMSLO	B0-1732-0001	Chevron USA	Apache
SWSW & E2SW4 Sec. 2	NMSLO	B0-9745-0004	Occidental Permian	Apache
N2 & N2SE4 Sec. 11 & W2NW4 Sec. 12	BLM	NMNM-125057	Apache, BP, & Chevron	Apache
NESW Sec. 11	fee	J H Nolan	Apache	Apache

VI. Forty existing wells are within a half-mile, all forty penetrated the Blinebry. The penetrators include 24 oil wells, 11 injectors, and 5 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 ≈400 bwpd.
Maximum injection rate will be 500 bwpd.

2. System is closed. Well will tie into the existing unit pipeline system.

3. Average injection pressure will be ≈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 16,803,534 barrels that have been injected in the Unit to date.

	NEDU Injection Pump Discharge	San Andres 919-S
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/	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, 4285' 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 = 1360'
Top salt = 1450'
Base salt = 2492'
Yates = 2637'
Seven Rivers = 2894'
Queen = 3465'
Penrose = 3615'
Grayburg = 3800'
San Andres = 4010'
Glorieta = 5272'
Blinebry marker = 5618'
injection interval = 5645' - 5932'
TD = 5932'
(Tubb ≈6106')

According to Office of the State Engineer records (Exhibit H), one fresh water well, 70' deep, is within a mile radius. That well, a windmill 4946' west, is dry (Exhibit H). However, four other water wells ranging from 1-1/4 miles to 2-1/2 miles were sampled (Exhibit H).

The same records show the deepest water well within 2 miles is 136'. There will be >5,000' of vertical separation and hundreds of feet of salt and anhydrite between the bottom of the only likely underground fresh water source

(Quaternary redbeds) and the top of the injection interval. Well is a half-mile southwest of Ogallala aquifer (Exhibit H).

There are 213 active or new injection wells and 8 active disposal wells in 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.

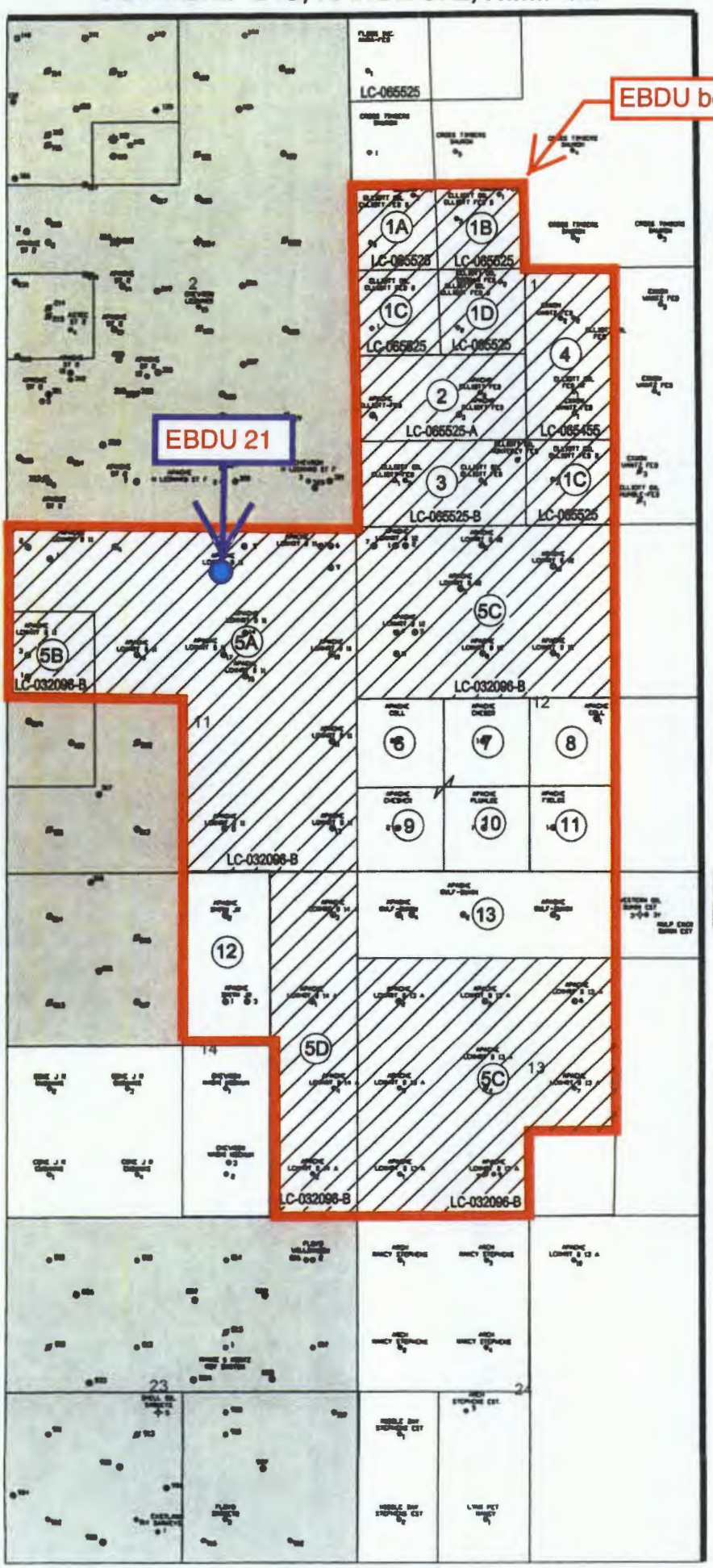
X. A gamma ray log is on file with NMOCD.

XI. No active water well could be found within a mile during an August 18, 2017 field inspection. Analyses from four fresh water wells within 1-1/4 miles to 2-1/2 miles away are in Exhibit H.

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 ≈111 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 November 22, 2017. Notice (this application) has been sent (Exhibit K) to the surface owner (W F M Ranch), government lessors (BLM & NMSLO), lessees (BP, Chevron USA, Occidental Permian, and Sheridan), operating rights holders (Mitchell Brown Properties, Elliott Industries, McElvain Oil & Gas, and SandRidge E & P), and other operators (Chevron USA, Sheridan) regardless of depth within a half-mile.

TOWNSHIP 21S, RANGE 37E, N.M.P.M.



EAST BLINEBRY DRINKARD UNIT
LEA COUNTY, NEW MEXICO

LEGEND

(11) UNIT TRACT NUMBER

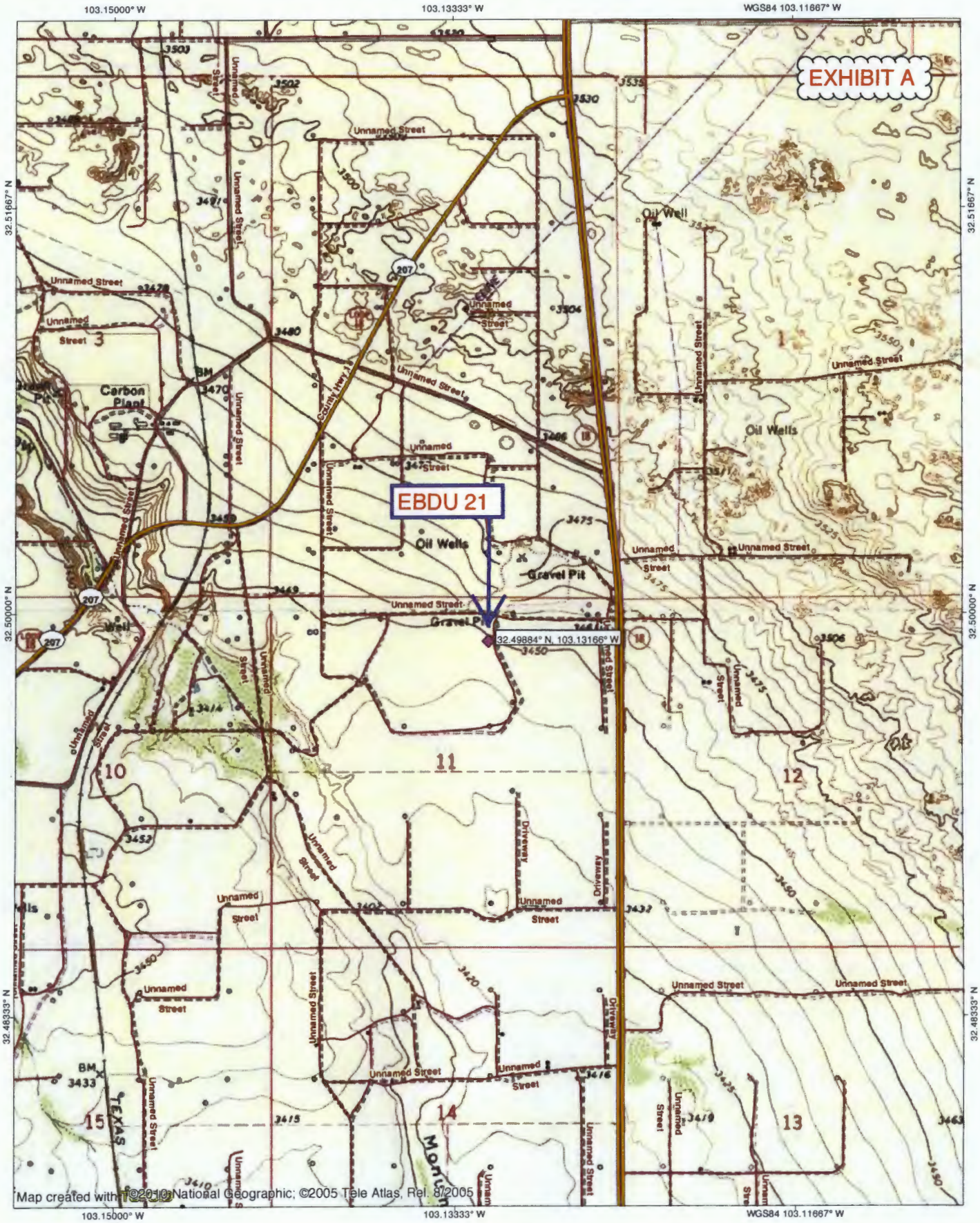
	ACREAGE	PERCENTAGE
FEDERAL LANDS	1640.00	78.85
PATENTED (FEE) LANDS	440.00	21.15
TOTALS	2080.00	100%

0 1000 2000

EXHIBIT A

EAST BLINEBRY (KEVIN)

TOPO! map printed on 11/18/17 from "Untitled.tpo"



NATIONAL GEOGRAPHIC

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 miles
0.0 0.5 1.0 km

TN MN
6.5°
11/18/17

NEW MEXICO
OIL CONSERVATION COMMISSION

EXHIBIT A

Form C-128

Well Location and/or Gas Proration Plat

Date 4-23-56

Operator Continental Oil Co. Lease Lockhart B-11

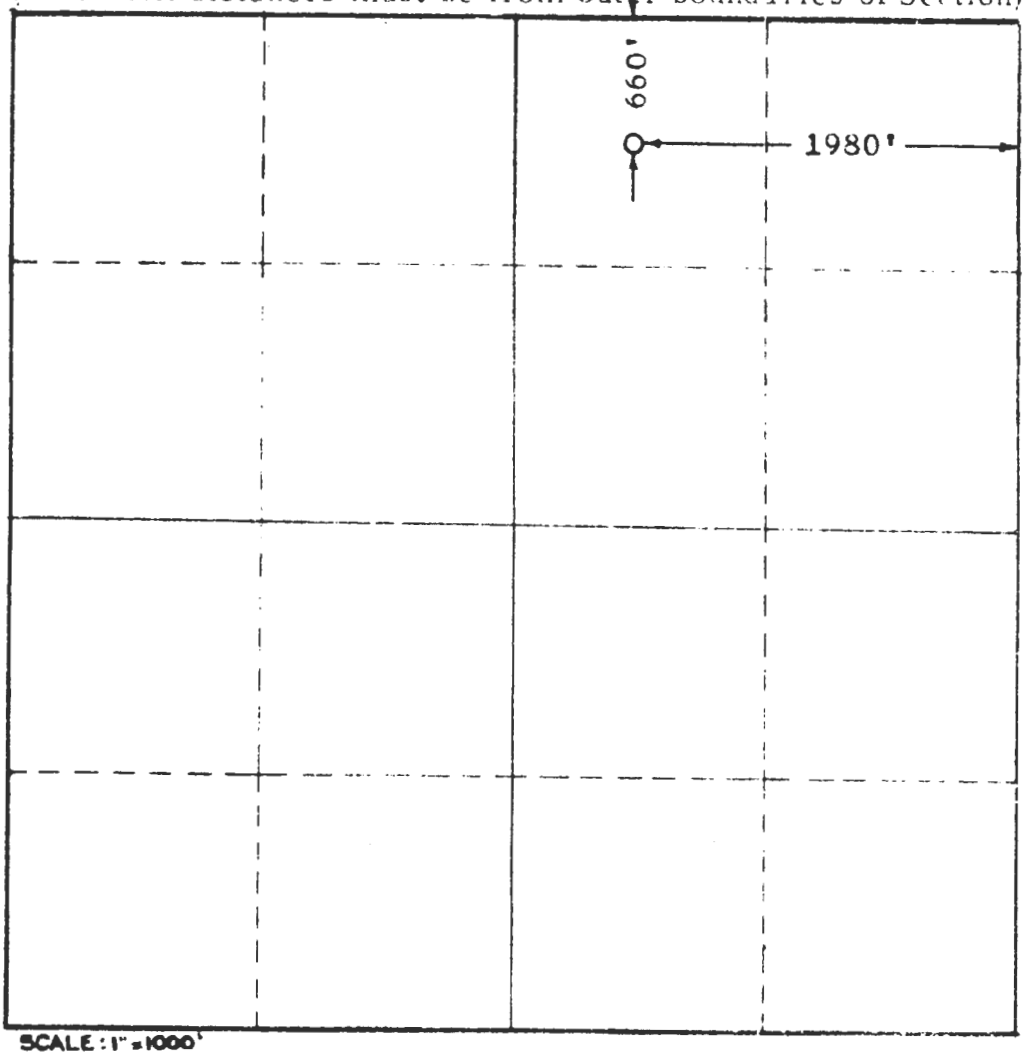
Well No. 12 Section 11 Township 21 S Range 37 E NMPM

Located 1930 Feet From East Line, 660 Feet From North Line,

Lea County, New Mexico. G. L. Elevation

Name of Producing Formation Pool Dedicated Acreage

(Note: All distances must be from outer boundaries of Section)



1. Is this Well a Dual Comp.? Yes ___ No ___.

2. If the answer to Question 1 is yes, are there any other dually completed wells within the dedicated acreage? Yes ___ No ___

Name

Position

Representing

Address

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed 4-23-56

John W. West

Registered Professional Engineer and/or Land Surveyor

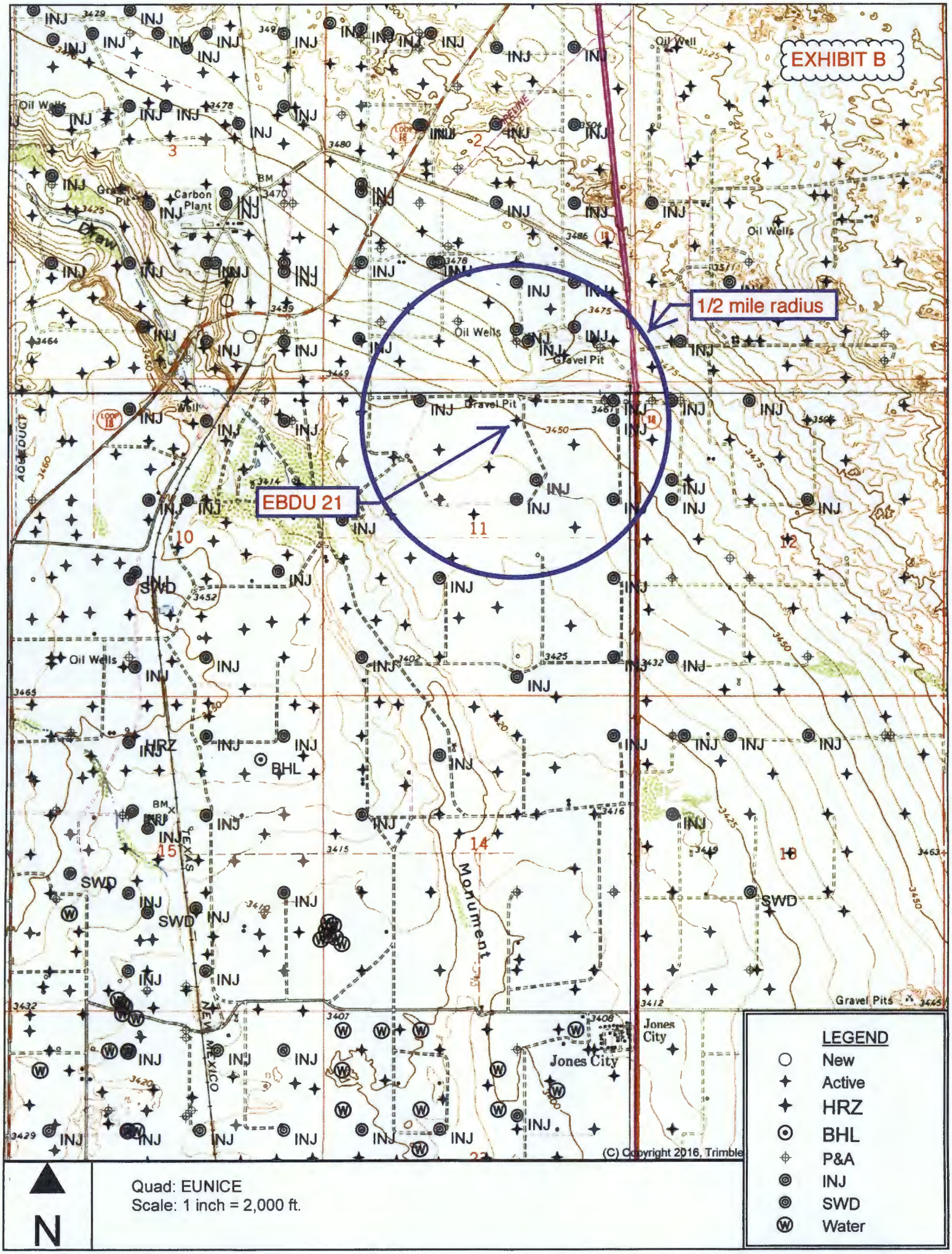


EXHIBIT B
1/2 mile radius
EBDU 21
BHL
HRZ
SWD
INJ
Oil Wells
Gravel Pit
Carbon Plant
Jones City
Monument Draw
TEXAS
NEW MEXICO
(C) Copyright 2016, Trimble
LEGEND
New
Active
HRZ
BHL
P&A
INJ
SWD
Water
N
Quad: EUNICE
Scale: 1 inch = 2,000 ft.

SORTED BY DISTANCE FROM EBDU 21

API	OPERATOR	WELL	TYPE	UNIT-SECTION-21S-37E	TVD	ZONE	FEET FROM EBDU 21
3002506482	Apache	EBDU 014	O	B-11	7831	Eunice; Bli-Tu-Dr, N	468
3002538760	Apache	EBDU 065	O	C-11	6950	Eunice; Bli-Tu-Dr, N	783
3002538761	Apache	EBDU 066	O	A-11	7000	Eunice; Bli-Tu-Dr, N	978
3002506529	Apache	EBDU 023	I	G-11	5925	Eunice; Bli-Tu-Dr, N	1044
3002539380	Apache	EBDU 073	O	G-11	6978	Eunice; Bli-Tu-Dr, N	1176
3002536808	Apache	NEDU 336	O	N-2	7000	Eunice; Bli-Tu-Dr, N	1210
3002537712	Apache	NEDU 338	O	P-2	6987	Eunice; Bli-Tu-Dr, N	1260
3002506362	Chevron	Harry Leonard NCT F 002	P & A	O-2	7962	Eunice; Bli-Tu-Dr, N	1320
3002506536	Apache	EBDU 026	I	G-11	7500	Eunice; Bli-Tu-Dr, N	1320
3002506366	Apache	NEDU 320	I	O-2	5925	Eunice; Bli-Tu-Dr, N	1335
3002539865	Apache	EBDU 099	O	C-11	7204	Eunice; Bli-Tu-Dr, N	1476
3002506348	Apache	NEDU 324	I	O-2	7778	Eunice; Bli-Tu-Dr, N	1520
3002506526	Apache	EBDU 016	P&A	A-11	8042	Eunice; Bli-Tu-Dr, N	1543
3002506479	Apache	EBDU 018	I	A-11	5880	Eunice; Bli-Tu-Dr, N	1658
3002506476	Apache	EBDU 013	I	C-11	7811	Eunice; Bli-Tu-Dr, N	1659
3002506527	Apache	EBDU 015	I	A-11	8065	Eunice; Bli-Tu-Dr, N	1690
3002506364	Apache	NEDU 122	I	1-2	7554	Eunice; Bli-Tu-Dr, N	1848
3002506531	Apache	EBDU 025	O	F-11	7450	Eunice; Bli-Tu-Dr, N	1849
3002506373	Apache	State Section 2 007	O	N-2	7854	Wantz; Abo	1849
3002506363	Chevron	Harry Leonard NCT F 003	O	P-2	8168	Brunson; Ellenburger	1871

SORTED BY DISTANCE FROM EBDU 21

3002506349	Apache	NEDU 325	P&A	P-2	8013	Eunice; Bli-Tu-Dr, N	1878
3002539644	Apache	EBDU 086	O	F-11	7112	Eunice; Bli-Tu-Dr, N	1899
3002506488	Apache	NEDU 317	P & A	N-2	5914	Eunice; Bli-Tu-Dr, N	1916
3002535406	Apache	NEDU 335	O	O-2	6270	Eunice; Bli-Tu-Dr, N	1949
3002535405	Apache	NEDU 334	O	O-2	6950	Eunice; Bli-Tu-Dr, N	2017
3002506352	Apache	NEDU 321	O	P-2	5970	Eunice; Bli-Tu-Dr, N	2119
3002506480	Apache	EBDU 019	I	H-11	6775	Eunice; Bli-Tu-Dr, N	2120
3002537677	Apache	NEDU 339	O	M-2	6975	Eunice; Bli-Tu-Dr, N	2134
3002538771	Apache	EBDU 067	O	H-11	6960	Eunice; Bli-Tu-Dr, N	2149
3002539645	Apache	EBDU 098	O	D-12	7211	Eunice; Bli-Tu-Dr, N	2183
3002538301	Apache	EBDU 064	O	D-11	6975	Eunice; Bli-Tu-Dr, N	2236
3002506365	Apache	NEDU 318	I	J-2	5925	Eunice; Bli-Tu-Dr, N	2310
3002506542	Apache	EBDU 032	P & A	D-12	5900	Eunice; Bli-Tu-Dr, N	2344
3002539848	Apache	EBDU 122	O	M-1	7204	Eunice; Bli-Tu-Dr, N	2489
3002537728	Apache	NEDU 424	O	K-11	6955	Eunice; Bli-Tu-Dr, N	2509
3002506353	Apache	NEDU 319	I	I-2	8300	Eunice; Bli-Tu-Dr, N	2515
3002538153	Apache	NEDU 340	O	I-2	7095	Eunice; Bli-Tu-Dr, N	2575
3002535404	Apache	NEDU 333	O	N-2	6950	Eunice; Bli-Tu-Dr, N	2606
3002506524	Apache	Lockhart B 11 001	O	D-11	7751	Wantz; Abo	2625
3002506361	Apache	NEDU 323	O	J-2	8350	Eunice; Bli-Tu-Dr, N	2640
3002506530	Apache	EBDU 024	O	J-11	6760	Eunice; Bli-Tu-Dr, N	2642

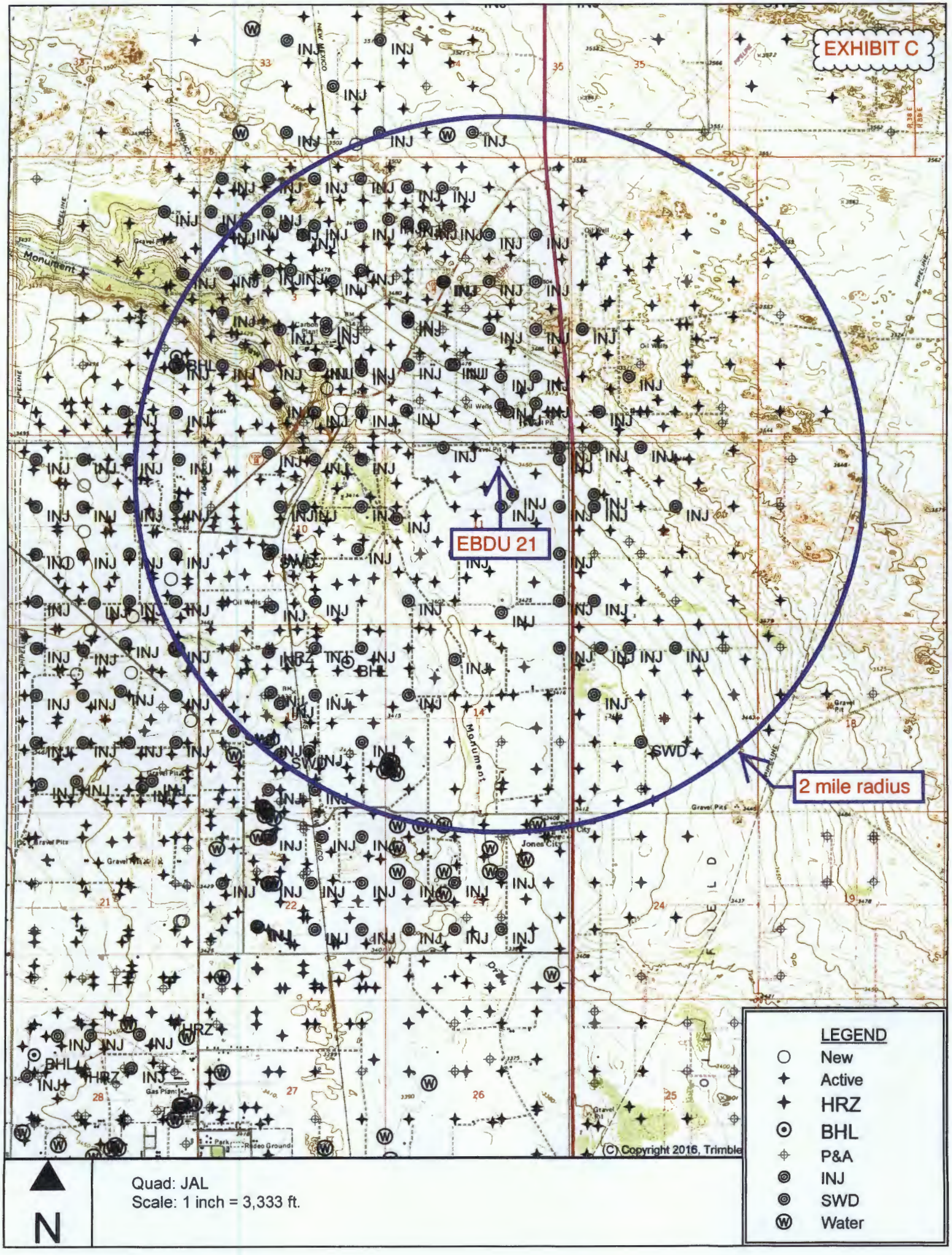
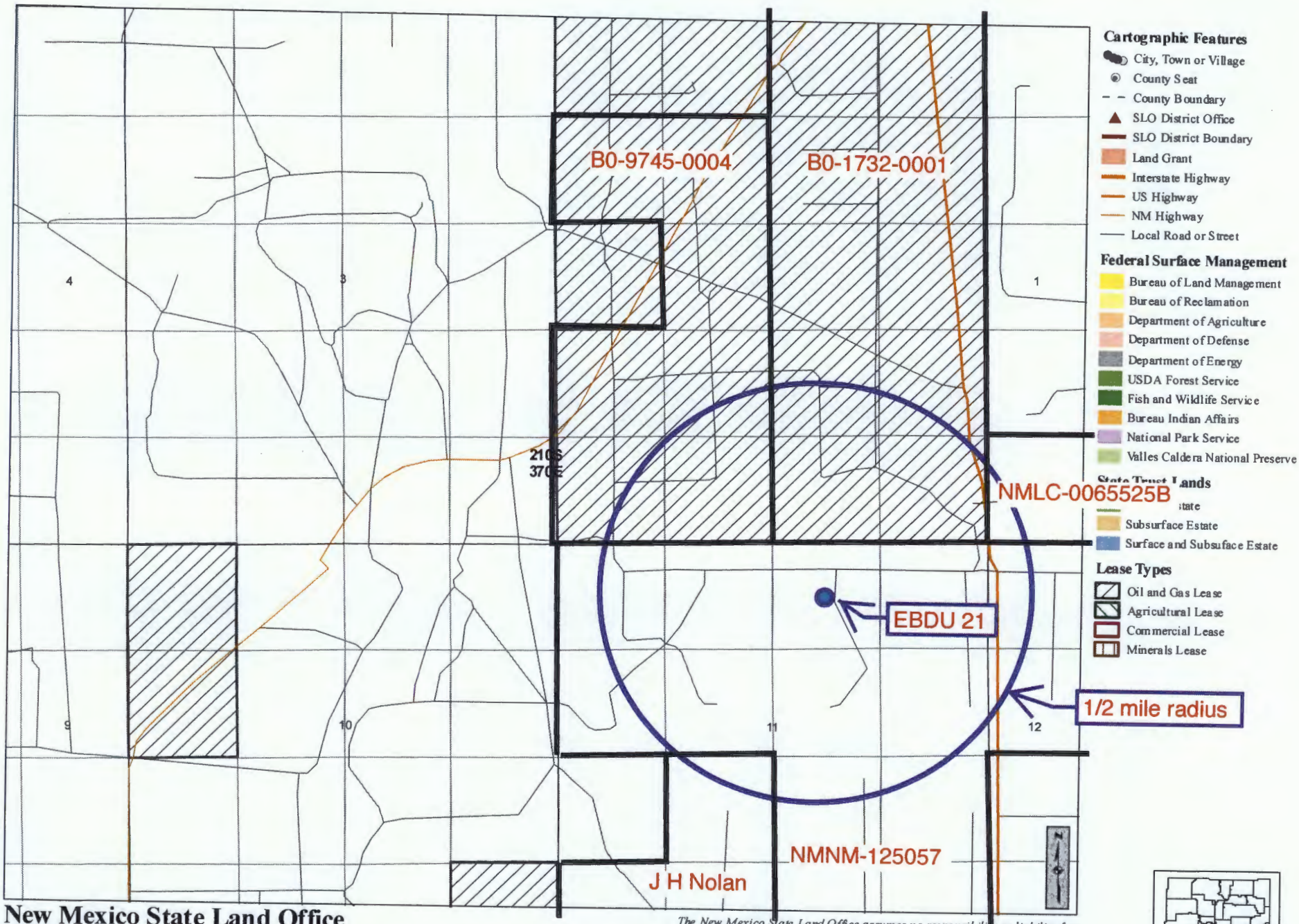


EXHIBIT C
EBDU 21
2 mile radius
LEGEND
New
Active
HRZ
BHL
P&A
INJ
SWD
Water
N
Quad: JAL
Scale: 1 inch = 3,333 ft.
(C) Copyright 2016, Trimble



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

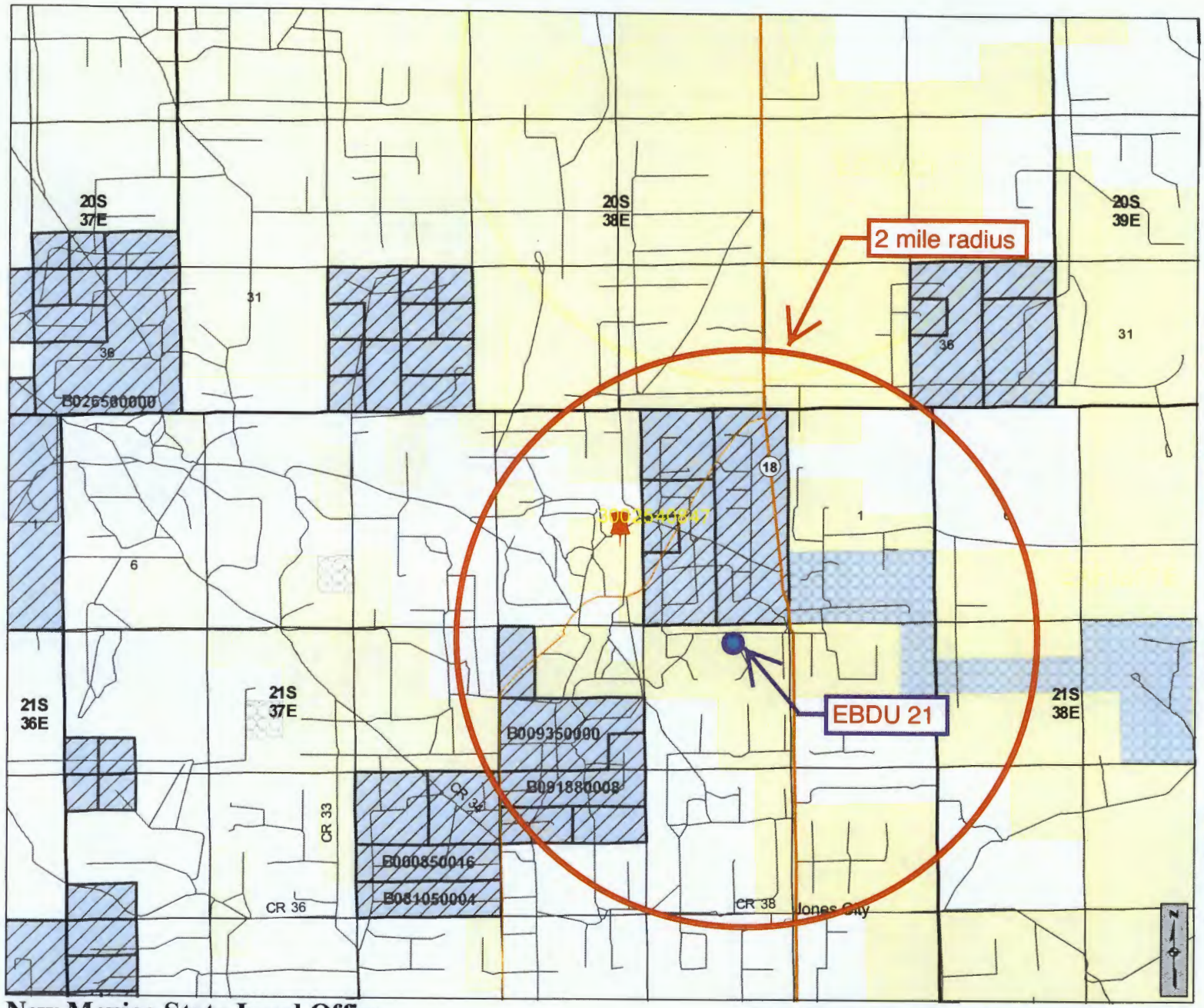
The New Mexico State Land Office assumes no responsibility or liability for, or in connection with, the accuracy, reliability or use of the information provided here, in State Land Office data layers or any other data layer.

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

EXHIBIT D

Created On: 11/5/2017 2:27:57 PM

www.nmstatelands.org



Point Locations
- County Seat
- SLO District Offices
- City, Town or Village
- Volcanic Vents
- Highway Mileposts

NMOCD Oil and Gas Wells
- Oil
- Gas
- Injection
- Water
- Carbon Dioxide
- DA or PA
- Miscellaneous
- 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

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

Land Office Geographic Information Center
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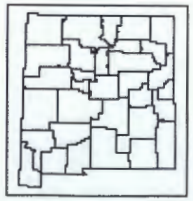
Created On: 3/11/2013 1:48:40 PM

EXHIBIT E



www.nmstatelands.org

Sorted by distance from EBDU 21

WELL	SPUD	TD	POOL	WELL STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
EBDU 014	3/8/52	7831	Eunice; Bli-Tu-Dr, N	O	No report	10.75	255	250 sx	Surface	Circ
30-025-06482					No report	7.625	3149	1600 sx	750	Temp Survey
B-11-21S-37E					6.75	5.5	7830	583 sx	3150	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										
EBDU 066	4/12/08	7000	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1413	680 sx	Surface	Circ
30-025-38761					7.875	5.5	7000	1300 sx	125	CBL
A-11-21S-37E										
EBDU 023	7/16/57	5925	Eunice; Bli-Tu-Dr, N	I	15	10.75	275	250 sx	Surface	Circ
30-025-06529					9.5	7.625	3124	420 sx	1575	Calc
G-11-21S-37E					6.75	5.5	5924	400 sx	3175	Calc

EXHIBIT F

Sorted by distance from EBDU 21

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										
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										
NEDU 338	4/10/06	6987	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1239	500 sx	Surface	Circ
30-025-37712					7.875	5.5	6987	1100 sx	142	CBL
P-2-21S-37E										
Harry Leonard NCT F 002	12/25/51	7962	Eunice; Bli-Tu-Dr, N	P & A	17.5	13.375	264	300 sx	Surface	Circ
30-025-06362					12.25	9.625	3024	1200 sx	458	Temp Survey
O-2-21S-37E					8.75	7	7925	800 sx	3748	Temp Survey

EXHIBIT F

Sorted by distance from EBDU 21

EBDU 026	4/10/62	7500	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	368	300 sx	Surface	Circ
30-025-06536					12.25	9.625	3094	1150 sx	1600	Temp Survey
G-11-21S-37E					8.75	7	7499	650 sx	3600	Temp Survey
NEDU 320	3/26/55	5925	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	334	375 sx	Surface	Circ 50 sx
30-025-06366					11	8.625	3049	2000 sx	1390	Temp Survey
W-2-21S-37E					7.875	5.5	5769	825 sx	2080	Temp Survey
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										
NEDU 324	3/29/52	7778	Eunice; Bli-Tu-Dr, N	I	17.25	12.75	259	300 sx	Surface	Circ
30-025-06348					11	8.625	2989	1100 sx	1135	Temp Survey
O-2-21S-37E					7.875	5.5	7778	870 sx	3320	Temp Survey

Sorted by distance from EBDU 21

EBDU 016	10/20/52	8042	Eunice; Bli-Tu-Dr, N	P&A	17.5	13.375	248	250 sx	Surface	Circ
30-025-06526					12.25	9.625	3152	1260 sx	650	Temp Survey
A-11-21S-37E					8.75	7	8041	940 sx	2650	Temp Survey
EBDU 018	3/11/54	5880	Eunice; Bli-Tu-Dr, N	I	15	10.75	257	250 sx	Surface	Calc
30-025-06479					9.5	7.875	3149	940 sx	Surface	Calc
A-11-21S-37E					6.75	5.5	5879	415 sx	5880	Calc
EBDU 013	11/21/51	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
EBDU 015	7/6/52	8065	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	246	260 sx	Surface	Calc
30-025-06527					12.25	9.625	3136	1797 sx	Surface	Calc
A-11-21S-37E					8.75	7	8064	948 sx	Surface	Calc

Sorted by distance from EBDU 21

NEDU 122	10/30/54	7554	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	327	375 sx	Surface	Circ
30-025-06364					11	8.625	3098	1700 sx	Surface	Circ
A-2-21S-37E					7.875	5.5	5924	750 sx	2156	Temp Survey
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
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
Harry Leonard NCT F 003	2/6/52	8168	Brunson; Ellenburger	O	17.5	13.375	285	350 sx	Surface	Circ 30 sx
30-025-06363					11	8.75	3034	1875 sx	1745	Temp Survey
P-2-21S-37E					7.875	5	8167	975 sx	3225	Temp Survey

Sorted by distance from EBDU 21

NEDU 325	5/14/52	8013	Eunice; Bli-Tu-Dr, N	O	17.25	12.75	287	300 sx	Surface	Circ
30-025-06349					11	8.625	3049	1100 sx	1375	Temp Survey
P-2-21S-37E					7.875	5.5	8012	925 sx	3075	Temp Survey
EBDU 086	6/27/10	7112	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1370	750 sx	Surface	Circ
30-025-39644					7.875	5.5	7112	1400 sx	340	No report
F-11-21S-37E										
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 335	8/15/01	6270	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1403	460 sx	Surface	Circ 78 sx
30-025-35406					7.875	5.5	6270	1350 sx	Surface	Circ 133 sx
W-2-21S-37E										

Sorted by distance from EBDU 21

NEDU 334	7/19/01	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1378	460 sx	Surface	Circ 72 sx
30-025-35405					7.875	5.5	6950	1100 sx	Surface	Circ 134 sx
W-2-21S-37E										
NEDU 321	4/22/53	5970	Eunice; Bli-Tu-Dr, N	O	17.25	12.75	309	350 sx	Surface	Circ
30-025-06352					11	8.625	3099	1300 sx	743	Temp Survey
X-2-21S-37E					7.875	5.5	5750	195 sx	4623	Temp Survey
EBDU 019	4/4/56	6775	Eunice; Bli-Tu-Dr, N	I	13.75	10.75	266	250 sx	Surface	Circ
30-025-06480					9.875	7.625	2955	1646 sx	Surface	Circ
H-11-21S-37E					7.875	5.5	5920	450 sx	2763	Calc
					4.75	4	6775	40 sx	5918	TOL
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										

Sorted by distance from EBDU 21

EBDU 067	4/25/08	6960	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1366	680 sx	Surface	Circ
30-025-38771					7.875	5.5	6960	1550 sx	1013	CBL
H-11-21S-37E										
EBDU 098	7/7/10	7211	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1380	750 sx	Surface	Circ 102 sx
30-025-39645					7.875	5.5	7200	1460 sx	80	No report
D-12-21S-37E										
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										
NEDU 318	12/28/54	5925	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	312	375 sx	Surface	Circ 35 sx
30-025-06365					11	8.625	3027	1650 sx	Surface	Circ 35 sx
R-2-21S-37E					7.875	5.5	5751	675 sx	3375	No report

Sorted by distance from EBDU 21

EBDU 032	4/24/54	5900	Eunice; Bli-Tu-Dr, N	P & A	11	10.75	263	250 sx	Surface	Circ
30-025-06542					No report	7.625	3149	1255 sx	Surface	Circ
D-12-21S-37E					6.75	5.5	5897	362 sx	4226	Calc
EBDU 122	9/5/10	7204	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1495	199 sx	Surface	Circ 199 sx
30-025-39848					7.875	5.5	7204	1460 sx	76	CBL
U-1-21S-37E										
NEDU 424	8/7/06	6955	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1239	550 sx	Surface	Circ 146 sx
30-025-37728					7.875	5.5	6955	1325 sx	140	CBL
K-11-21S-37E										
NEDU 319	5/22/53	8300	Eunice; Bli-Tu-Dr, N	I	17.25	13.375	309	350 sx	Surface	Circ
30-025-06353					11	8.625	3099	1575 sx	1495	Temp Survey
Q-2-21S-37E					7.875	5.5	6019	600 sx	2400	Temp Survey

Sorted by distance from EBDU 21

NEDU 340	8/9/07	7095	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1476	900 sx	Surface	Circ
30-025-38153					7.875	5.5	7095	1150 sx	110	CBL
I-2-21S-37E										
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										
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	7700 sx	3030	Temp survey
NEDU 323	10/8/51	8350	Eunice; Bli-Tu-Dr, N	O	19.5	16	253	300 sx	Surface	Circ
30-025-06361					13.75	10.75	2904	1600 sx	205	Temp Survey
J-2-21S-37E					8.75	7	8350	800 sx	3665	Temp survey

Sorted by distance from EBDU 21

EBDU 024	1/12/60	6760	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	307	260 sx	Surface	Circ
30-025-06530					12.25	9.625	2995	1150 sx	2000	No report
J-11-21S-37E					8.75	7	6760	500 sx	3000	No report

Apache

LEASE NAME	NEDU
WELL #	325
API #	30-025-06349
COUNTY	Lea

555 FSL & 555 FEL
2-21s-37e

WELL BORE INFO.

P&A 5-14-14
spud 5-14-52

0

17 1/4" Hole
12 3/4" 50# @ 287'
w/ 300 sx to surf

sqz 240 sx
GL - 337'
perf @ 337'

801

sqz 200 sx
1074' - 1440'
perf @ 1440'

TOC @ 1375' (TS)

1603

2404

11" Hole
8 5/8" 28# @ 3049'
w/ 1100 sx TOC @ 1375' (TS)

sqz 200 sx
2280' - 3125'
perf @ 3125'

3205

TOC @ 3075'

4007

4808

25 sx plug
@ 5400'

5609

6410

30 sx plug
6249' - 6557'

Drinkard perfs @ 6602'-6778'

CIBP @ 6850' w/ 2 sx cmt

Abo perfs @ 6928'-7270'

7212

CIBP @ 7600' w/ 1 sx cmt

7 7/8" Hole
5 1/2" 15.5/20# @ 8012'
w/ 925 sx TOC @ 3075'

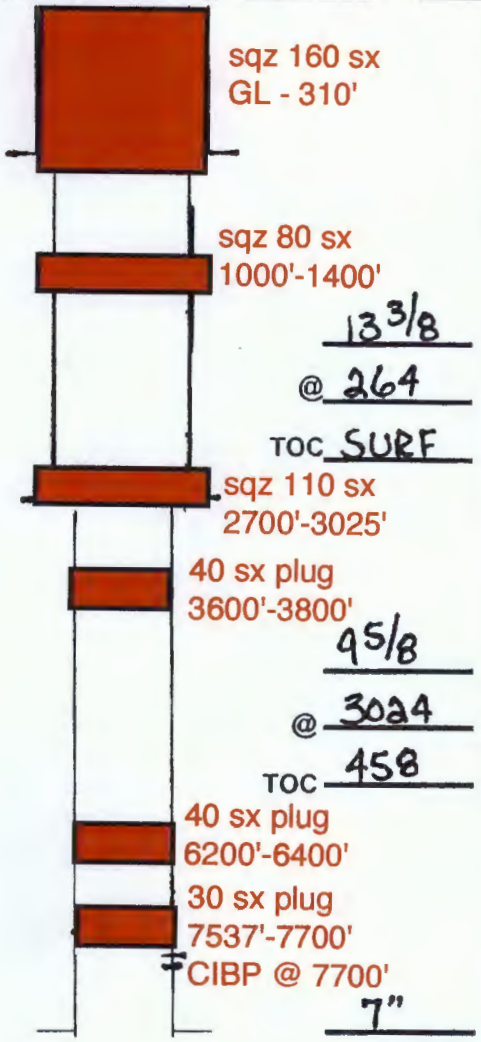
McKee perfs @ 7615'-7800'
Connell perfs @ 7925'-7955'

8013

PBTD @ 6557'
TD @ 8013'

EXHIBIT G

PLUGGING & ABANDONMENT WORKSHEET (5 STRING CSNG)



P&A 10-23-02
spud 12-25-51

TD 7926

OPERATOR CHEVRON USA INC.
LEASE NAME HARRY LEONARD NCT-F
WELL # 2 30-025-06362

SECT 2 TWN 21-S RNG 37-E
FROM 660 N(S)L 1980 (E)W L
TD 7926 FORMATION @ TD
PBTD FORMATION @ PBTD BRUNSON

	SIZE	SET @	TOC	TOC DETERMINED BY
SURFACE	13 3/8	264	SURF	CIRC
INTMED 1	9 5/8	3024	458	T.S.
INTMED 2				
PROD	7"	7925	3748	T.S

	SIZE	TOP	BOT	TOC	DETERMINED BY
LINER 1					
LINER 2					

	CUT & PULL		TOP - BOTTOM
INTMED 1		PERFS	7758- 7915
INTMED 2		OPENHOLE	
PROD			

*REQUIRED PLUGS DISTRICT

			PLUG	TYPE PLUG	SACKS CEMENT	DEPTH
RUSTLER (ANHYD)		•	1	CIBP	20	7700
YATES			2	DRINKARD	40	6400
QUEEN			3	QUEEN	40	3800
GRAYBURG			4	STUB	140	3075
SAN ANDRES			5	T-SALT	40	1400
			6	13 3/8 S	50	310
CAPITAN REEF		•	7	SURF	10	10
DELAWARE						
BELL CANYON						
CHERRY CANYON						
BRUSHY CANYON						
BONE SPRING						
GLORIETA		•				
BLINBRY						
TUBB						
DRINKARD						
ABO						
WC						
PENN						
STRAWN						
ATOKA						
MORROW						
MISS						
DEVONIAN						

EXHIBIT G

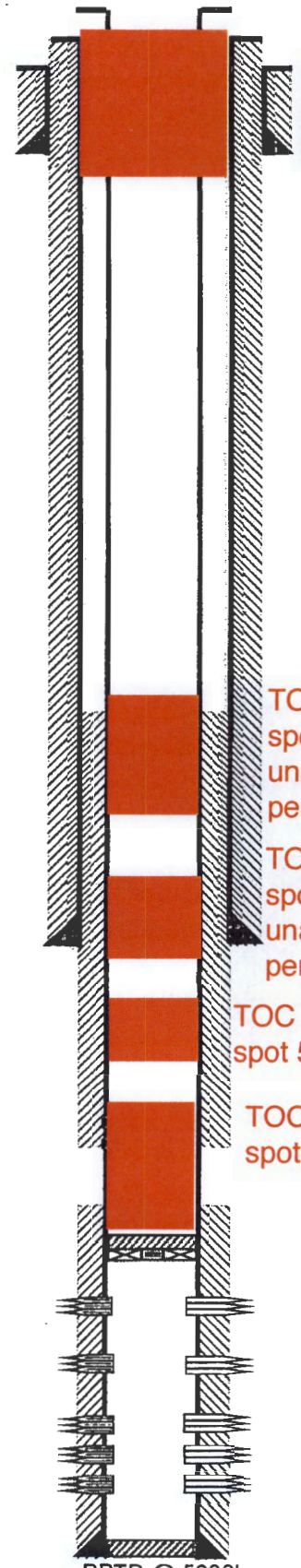
Apache

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



TOC GL
45 sx
perf @ 60' & 383'

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

TOC 1875'
spot 25 sx
unable to sqz
perf @ 2054'

TOC 2785'
spot 50 sx
unable to sqz
perf @ 3200'

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

TOC 3870'
spot 50 sx

TOC 4876'
spot 55 sx

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

Cal TOC @ 5304'

CIBP @ 5665' w/ 35' cmt

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

Blinebry perfs @ 5749'-5781'

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

Blinebry perfs @ 5789'-5838'

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

Blinebry perfs @ 5857'-5904'

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

PBTD @ 5630'
TD @ 5913'

EXHIBIT G

Apache

LEASE NAME	EBDU
WELL #	16
API #	30-025-06526
COUNTY	Lea, NM

330 FNL & 480 FEL
11-21S-37E

WELL BORE INFO.
P&A 5-19-17
spud 10-20-52

17 1/2" Hole
13 3/8" 48# @ 248'
w/ 250 sx Circ to surf

12 1/4" Hole
9 5/8" 36# @ 3152'
w/ 1260 sx, TOC @ 650'

8 3/4" Hole
7" 23-26# @ 8041'
w/ 940 sx, TOC @ 2650' by TS

75 sx sqz
GL - 100'
perf @ 100'

50 sx sqz
128' - 300'
perf @ 300'

TOC @ 650'

50 sx sqz
1156' - 1430'
perf @ 1430'

50 sx plug
2427' - 2773'

35 sx sqz
3054' - 3202'
perf @ 3202'

65 sx plug
3718' - 4107'

90 sx plug
5066' - 5650'
CIBP @ 5650'

50 sx plug
6435' - 6820'
CIBP @ 6820'

50 sx plug
7404' - 7769'

Top of Rustler @ 1380'
Top of Yates @ 2673'
Top of Queen @ 3478'
Top of Grayburg-San Andres @ 3809'-5314
Top of Glorieta @ 5314'
Tubb & Drink @ 6200' - 6535'

Blinebry perfs @ 5741'-6115'
Abo perfs @ 6912'- 7379'
Ellenburg perfs @ 7898'-8026'

PBTD @ 6510'
TD @ 8041'

0
804
1608
2412
3216
4021
4825
5629
6433
7237
8041

EXHIBIT G

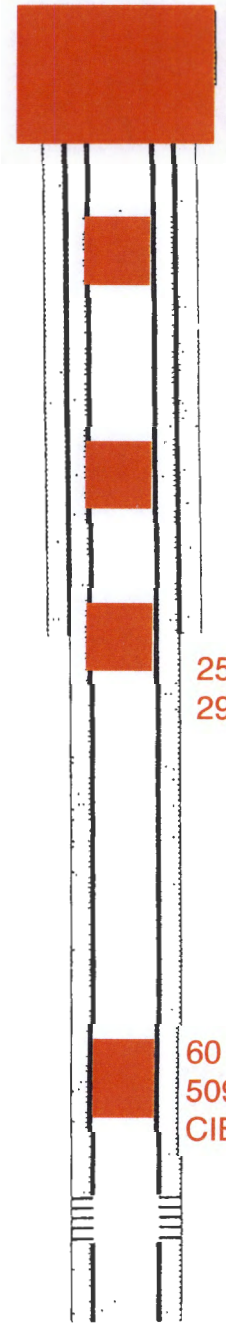
CURRENT WELLBORE SKETCH
Apache Corporation

BASIC ENERGY SERVICES

Date July 24, 2008

P&A 9-12-08
spud 4-24-54

Lease & Well No. East Blinebry,Drinkard Unit #32
Legal Description : Unit Letter D, 330' FNL & 330' FWL, Section 12, T 21-S, R-37-E
County. Lea State New Mexico
Field. Eunice, Blinebry-Tubb-Drinkard,N
Date Spudded
API Number 30-025-06542
Status



10-3/4" csg @263' cmt'd w/ 250 sx

sqz 85 sx
GL - 313'
perf @ 313'

11" hole

Top Salt @ 1,520'

30 sx plug
1330' - 1583'

Base Salt @ 2,520'

25 sx plug
2423' - 2584'

7-5/8" 24# csg @ 3,149' cmt'd w/ 1,255 sx

25 sx plug
2951' - 3198'

6-3/4" hole

60 sx plug
5098' - 5730'
CIBP @ 5730'

open perforations
5,780 - 5,812'
5,830 - 5,881'

5-1/2" 15.5# csg @ 5,897'
cmt'd w/ 362 sx

Prepared By Basic Energy Services

EXHIBIT G

Jim Newman
7/24/2008

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	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00286 POD1		CP	LE	2	1	2	10	21S	37E	674019	3597338*	1508	70		
CP 00197	O	CP	LE	1	4	1	01	21S	37E	676611	3598599*	1716	85		
CP 00197 POD1		CP	LE	1	4	1	01	21S	37E	676611	3598599*	1716	85		
CP 00137 POD1		CP	LE	2	2	1	13	21S	37E	676862	3595783*	1998	65		
CP 01185 POD1		CP	LE		1	3	14	21S	37E	674598	3594689	2741	70		
CP 01185 POD2		CP	LE		1	3	14	21S	37E	674623	3594674	2747	70		
CP 01110 POD1		CP	LE		1	3	14	21S	37E	674586	3594648	2784	70		
CP 01110 POD2		CP	LE		1	3	14	21S	37E	674586	3594648	2784	70		
CP 01110 POD3		CP	LE		1	3	14	21S	37E	674586	3594648	2784	70		
CP 01110 POD4		CP	LE		1	3	14	21S	37E	674586	3594648	2784	20		
CP 01110 POD5		CP	LE		1	3	14	21S	37E	674586	3594648	2784	20		
CP 01185 POD4		CP	LE		1	3	14	21S	37E	674633	3594610	2804	70		
CP 01185 POD3		CP	LE		1	3	14	21S	37E	674592	3594620	2808	70		
L 13546 POD1		L	LE	4	4	3	34	20S	38E	675011	3600037	2815	88		
CP 01574 POD2		CP	LE	1	3	3	14	21S	37E	674666	3594578	2824	68	57	11
CP 01574 POD1		CP	LE	2	4	4	15	21S	37E	674559	3594598	2840	68	57	11
CP 00552		CP	LE		2	4	04	21S	37E	672700	3598022*	2924	90	75	15
CP 00553		CP	LE		2	4	04	21S	37E	672700	3598022*	2924	90	75	15
CP 00239 POD1		CP	LE	1	1	2	23	21S	37E	675485	3594152*	3117	89	61	28
CP 00562		CP	LE	1	2	2	23	21S	37E	675887	3594159*	3130	136	65	71
CP 00235 POD1		CP	LE	2	2	1	23	21S	37E	675283	3594144*	3134	81		
CP 00235 POD2		CP	LE	1	2	1	23	21S	37E	675083	3594144*	3156	96	65	31
CP 00134 POD1		CP	LE	1	1	1	24	21S	37E	676289	3594166*	3195	85		
CP 00235 POD6		CP	LE	2	1	1	23	21S	37E	674881	3594137*	3197	85	65	20

1 mile = 1610 m

Average Depth to Water: **65 feet**

Minimum Depth: **57 feet**

Maximum Depth: **75 feet**

Record Count: 24

UTMNAD83 Radius Search (in meters):

Easting (X): 675526 **Northing (Y):** 3597269 **Radius:** 3220

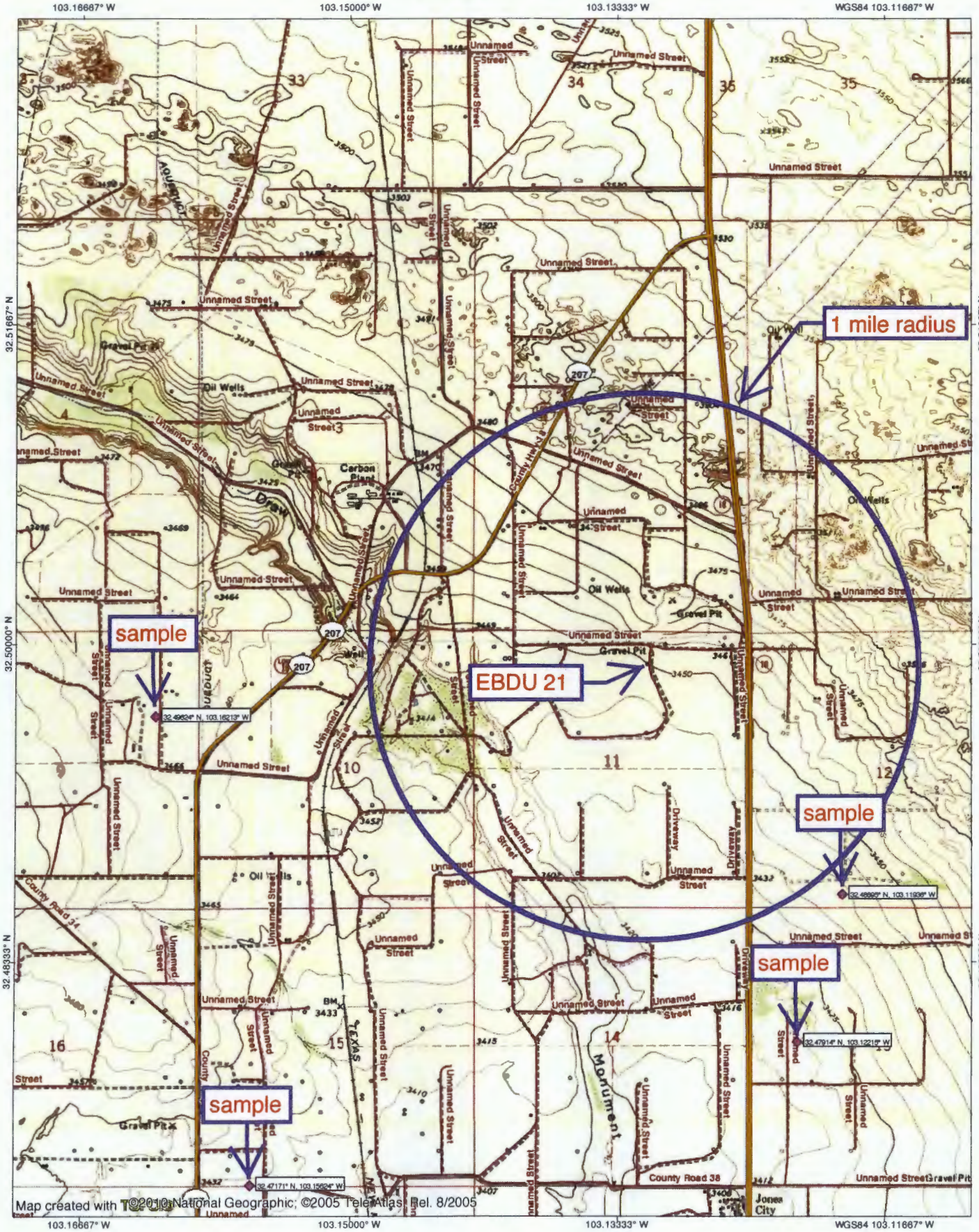
***UTM location was derived from PLSS - see Help**

EXHIBIT H

Windmill (CP 00286)

Dry Stock Tank at CP 00286

TOPO! map printed on 11/18/17 from "Untitled.tpo"



NATIONAL GEOGRAPHIC

MILES 0 5
FEET 1000 0 1000 2000 3000 4000 5000
KILOMETERS 1 5 0 1
METERS 1000 0 1000

EXHIBIT H

TN MN 6.5° 11/18/17

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: 1708C75-001 **Matrix:** AQUEOUS

Client Sample ID: Section 12 Tank
Collection Date: 8/18/2017 10:28:00 AM
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 Quanitative 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.

CLIENT: Permits West
Project: Apache EBDU 24 et al
Lab ID: 1708C75-002 **Matrix:** AQUEOUS

Client Sample ID: Section 13 WM
Collection Date: 8/18/2017 11:19:00 AM
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 Quanitative 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.

CLIENT: Permits West
Project: Apache EBDU 24 et al
Lab ID: 1708C75-003 **Matrix:** AQUEOUS

Client Sample ID: Decky Pond
Collection Date: 8/18/2017 2:20:00 PM
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 Quanitative 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.

CLIENT: Permits West
Project: Apache EBDU 24 et al
Lab ID: 1708C75-004 **Matrix:** AQUEOUS

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						Analyst: **MRA**
Chloride	660	25	*	mg/L	50	9/5/2017 6:57:19 PM
EPA METHOD 1664B						Analyst: **MAB**
N-Hexane Extractable Material	ND	10.1		mg/L	1	9/1/2017
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **SRM**
Total Dissolved Solids	1730	40.0	*D	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 Quanitative 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.	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 Quanitative 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

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.	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 Quanitative 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

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 Quanitative 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

EXHIBIT H


Ogallala aquifer
1/2 mile
32.49884, -103.13166
EBDU 21
Survey
Google Earth
EXHIBIT H
N
1000 ft

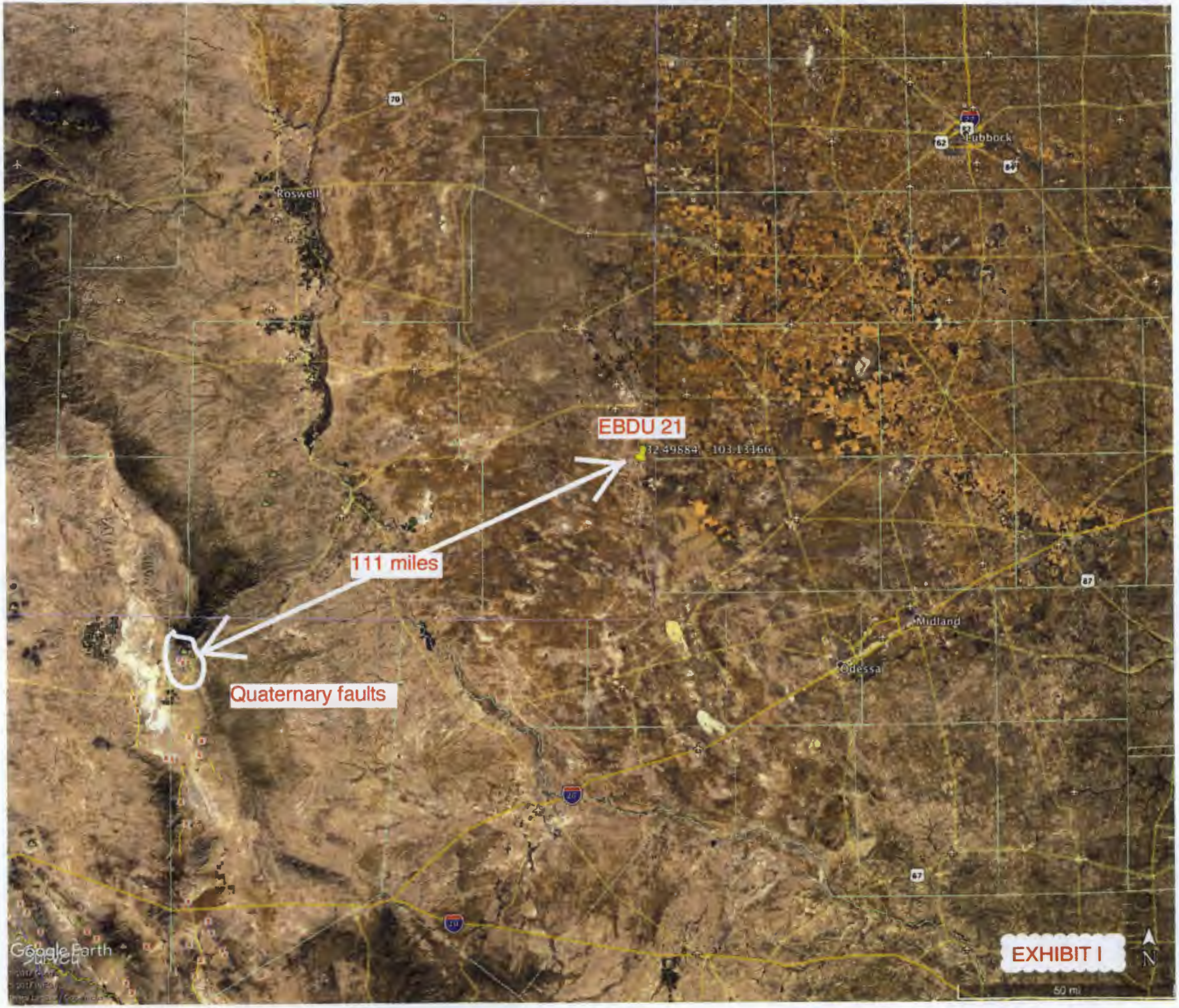
Form C-108
Affirmative Statement
Apache Corporation
East Blinebry Drinkard Unit
Section 11, T-21-S, R-37-E
Lea County, New Mexico

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

EXHIBIT I


Roswell
Lubbock
EBDU 21
32.49884 103.13466
111 miles
Quaternary faults
Midland
Odessa
EXHIBIT I
N
50 mi
Google Earth

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
November 22, 2017
and ending with the issue dated
November 22, 2017.

LEGAL NOTICE
November 22, 2017

Apache Corporation is applying to convert the East Blinebry Drinkard Unit 21 oil well to a water injection well. The well is at 660 FNL & 1980 FEL, 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 Blinebry (maximum injection pressure = 2,100 psi) from 5,645' to 5,932'. 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. #32271

Publisher

Sworn and subscribed to before me this
22nd day of November 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

02108485

00203090

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

EXHIBIT J

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

January 2, 2018

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

Apache Corporation is applying (see attached application) to convert its East Blinebry Drinkard Unit 21 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 21 (BLM lease) TD = 5,932'
Proposed Injection Zone: Blinebry from 5,645' to 5,932'
Where: 660' FNL & 1980' FEL 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 0002 2160 0529

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PO Box 21116
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Apache EBDU 21
Street and Apt. No., or PO Box No.
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87552-9998

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

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Apache EBDU 21

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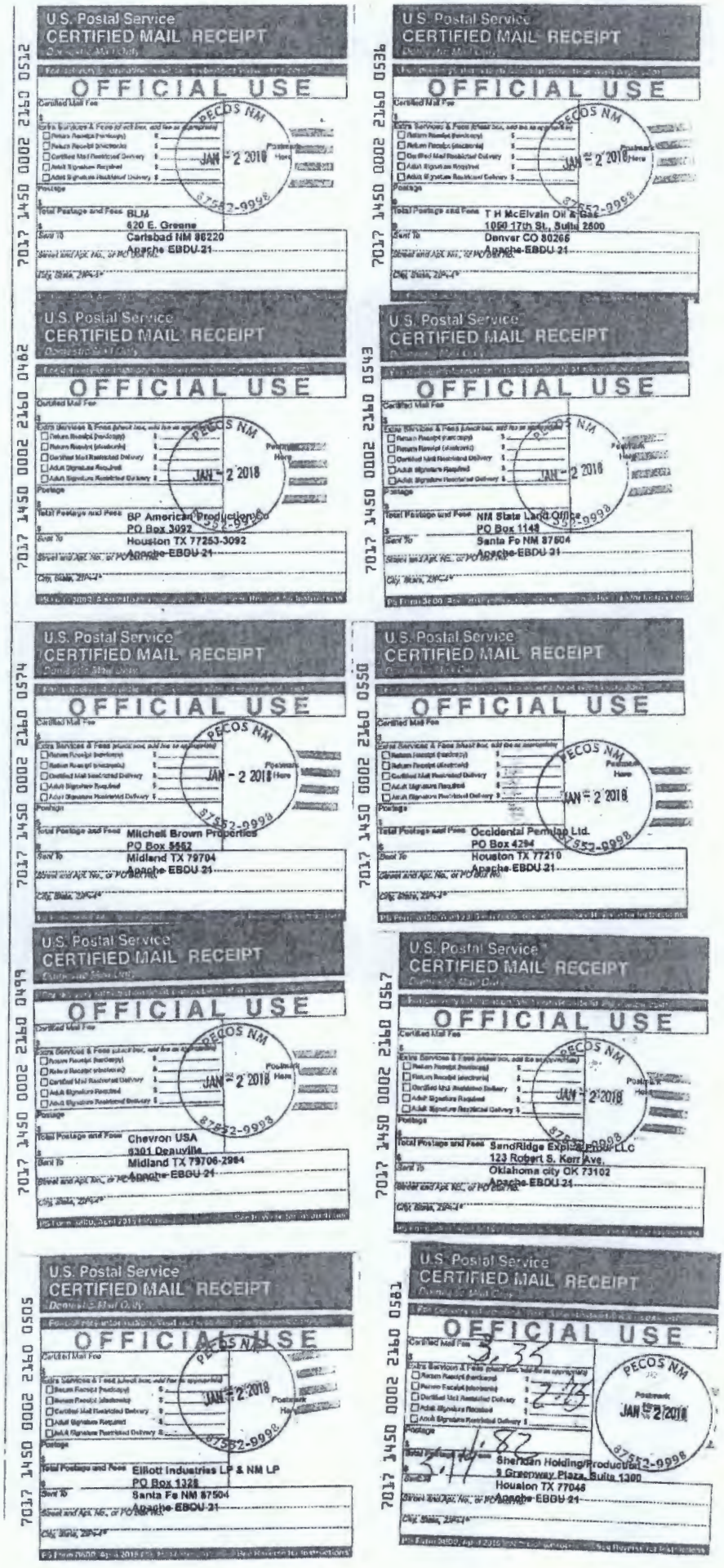

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BLM
620 E. Greene
Carlsbad NM 88220
Apache EBDU 21

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87552-9998
7017 1450 0002 2160 0536
Total Postage and Fees
Sent To
T H McElvain Oil & Gas
1050 17th St., Suite 2500
Denver CO 80265
Apache EBDU 21

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BP American Production Co
PO Box 3092
Houston TX 77253-3092
Apache EBDU 21

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PO Box 1148
Santa Fe NM 87504
Apache EBDU 21

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Sent To
Mitchell Brown Properties
PO Box 5552
Midland TX 79704
Apache EBDU 21

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7017 1450 0002 2160 0550
Total Postage and Fees
Sent To
Occidental Permian Ltd.
PO Box 4294
Houston TX 77210
Apache EBDU 21

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Chevron USA
6301 Deauville
Midland TX 79706-2964
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SandRidge Exploration & Prod LLC
123 Robert S. Kerr Ave.
Oklahoma city OK 73102
Apache EBDU 21

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87552-9998
7017 1450 0002 2160 0505
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Sent To
Elliott Industries LP & NM LP
PO Box 1328
Santa Fe NM 87504
Apache EBDU 21

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Sheridan Holding/Production 2
9 Greenway Plaza, Suite 1300
Houston TX 77046
Apache EBDU 21

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BLM
620 E. Greene
Carlsbad NM 88220

Apache EBDU 21

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Mail
Mail Restricted Delivery
(over $500)
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☐ Registered Mail™
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1. Article Addressed to:

T H McElvain Oil & Gas
1050 17th St., Suite 2500
Denver CO 80265

Apache EBDU 21

9590 9402 2329 6225 4766 55

2. Article Number (Transfer from service label)
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1. Article Addressed to:

Mitchell Brown Properties
PO Box 5562
Midland TX 79704

Apache EBDU 21

9590 9402 2329 6225 4768 22

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Morton 1-8-18

D. Is delivery address different from item 1? ☐ Yes
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JAN - 8 2018

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NM State Land Office
PO Box 1148
Santa Fe NM 87504

Apache EBDU 21

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USPS SANTA FE, NM 87501
JAN - 8 2018

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Chevron USA
6301 Deauville
Midland TX 79706-2964

Apache EBDU 21

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Occidental Permian Ltd.
PO Box 4294
Houston TX 77210

Apache EBDU 21

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DEANN 1-11-18

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SAN ANTONIO TX 20
JAN 11 20
HOUSTON, TX 770

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1. Article Addressed to:

Elliott Industries LP & NM LP
PO Box 1328
Santa Fe NM 87504

Apache EBDU 21

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A. Signature
X Kathy Elliott ☐ Agent ☐ Addressee

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Kathy Elliott

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328
JAN 09 2018
SANTA FE, NM
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1. Article Addressed to:

SandRidge Expl. & Prod. LLC
123 Robert S. Kerr Ave.
Oklahoma city OK 73102

Apache EBDU 21

9590 9402 2329 6225 4766 86

2. Article Number (Transfer from service label)
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STATE OF NEW MEXICO
ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 13503
ORDER NO. R-12394

APPLICATION OF APACHE CORPORATION FOR APPROVAL OF A WATERFLOOD PROJECT AND QUALIFICATION OF THE PROJECT AREA FOR THE RECOVERED OIL TAX RATE PURSUANT TO THE "ENHANCED OIL RECOVERY ACT", LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on June 16, 2005, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this day 22nd of July, 2005, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner,

FINDS THAT:

(1) Due public notice has been given, and the Division has jurisdiction of this case and its subject matter.

(2) Division Cases No. 13503 and 13504 were consolidated at the hearing for the purpose of testimony.

(3) The applicant, Apache Corporation ("Apache" or "applicant"), seeks authority to institute a waterflood project within its East Blinebry-Drinkard Unit Area ("Unit Area"), described below, by the injection of produced water into the Blinebry and Drinkard formations, Drinkard and Blinebry Oil & Gas Pools, Lea County, New Mexico, through seventeen (17) initial injection wells to be located within the Unit Area, all as shown on Exhibit "A" attached to this order:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM

Section 1:	Lots 11 through 15, SW/4, W/2 SE/4
Section 11:	E/2, NW/4
Section 12:	W/2, W/2 E/2
Section 13:	W/2, W/2 NE/4, NW/4 SE/4
Section 14:	NE/4, E/2 SE/4

(4) BP America Production Company, a working interest owner in the East Blinebry-Drinkard Unit, appeared at the hearing through legal counsel but offered no evidence or testimony in this proceeding.

(5) The Unitized Interval within the Unit Area comprises the Blinebry, Tubb and Drinkard formations and occurs at a depth of 5,615 feet to 6,795 on the type log for the Apache Lockhart B-11 Well No. 17 (API No. 30-025-06536) located 1980 feet from the North and East lines (Unit G) of Section 11, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

(6) Apache proposes to inject into the Blinebry and Drinkard formations within the Unit Area by means of a five spot injection pattern.

(7) The Blinebry and Drinkard formations within the Unit Area are in an advanced state of depletion and are suitable for waterflooding. The Tubb formation is predominantly gas bearing within the Unit Area, and development of this interval thus far has been limited to portions of Sections 13 and 14.

(8) All of the "area of review" wells within the Unit Area appear to be cased and cemented, and/or plugged and abandoned adequately so as to preclude the movement of injected fluid from the proposed injection interval to other formations or fresh water sources.

(9) The proposed waterflood project should result in the recovery of an additional 3.465 million barrels of secondary oil reserves from the Unitized Interval within the Unit Area.

(10) Apache estimates that it will cost approximately $2.428 million dollars to implement waterflood operations within the Unit Area.

(11) Approval of the proposed waterflood project will result in the recovery of additional secondary oil and gas reserves that would otherwise not be recovered, thereby preventing waste, and will not violate correlative rights.

(12) Injection into the Unitized Interval should be limited to the oil-bearing portions of the Blinebry and Drinkard formations. The applicant should be required, insofar as is practical, to avoid injection into any gas-bearing zones within any or all of the three formations within the Unitized Interval, and should otherwise take steps as may be necessary to protect these gas-bearing intervals.

(13) Prior to commencing injection operations into the Elliot-Monterey Well No. 5 (API No. 30-025-06334), the Lockhart B-11 Well No. 4 (API No. 30-025-06476), the Lockhart B-11 Well No. 6 (API No. 30-025-06527), the Lockhart B-11 Well No. 17 (API No. 30-025-06536) and the Lockhart B-12 Well No. 4 (API No. 30-025-06539), the deeper perforations below the Unitized Interval in each of these wells should be squeeze cemented or otherwise isolated by a method approved by the Hobbs District Office of the Division.

(14) Injection into the wells shown on Exhibit "A" should be conducted at a maximum surface injection pressure of 1121 psi; provided however that the Division may administratively grant a surface injection pressure increase upon a showing by Apache that such increase will not result in the fracturing of the injection interval or confining strata.

(15) The applicant further seeks to qualify the waterflood project as an "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (NMSA 1978 Sections 7-29A-1 through 7-29A-5).

(16) The evidence presented demonstrates that:

(a) the application for approval of the proposed secondary recovery project has not been prematurely filed either for economic or technical reasons;

(b) the area affected by the proposed project has been so depleted by primary operations that it is prudent to apply secondary recovery techniques to maximize the ultimate recovery of crude oil from the pool; and

(c) the proposed secondary recovery project meets all the criteria for certification by the Division as a qualified "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (NMSA 1978 Sections 7-29A-1 through 7-29A-5).

(17) The approved project area should comprise the entire East Blinebry-Drinkard Unit Area; provided however that the "project area" and/or the producing wells eligible for the enhanced oil recovery (EOR) tax rate may be contracted and reduced based upon the evidence presented by the applicant in its demonstration of a positive production response.

IT IS THEREFORE ORDERED THAT:

(1) Apache Corporation is hereby authorized to institute a waterflood project within its East Blinebry-Drinkard Unit Area, described in Finding No. (3) above, by the injection of water into the Blinebry and Drinkard formations, Drinkard and Blinebry Oil & Gas Pools, through seventeen (17) injection wells shown on Exhibit "A" attached to this order located in Sections 1, 11, 12, 13 and 14, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

(2) Injection into the Unitized Interval, described in Finding No. (5) above, shall be limited to the oil-bearing portions of the Blinebry and Drinkard formations. The applicant shall, insofar as is practical, avoid injection into any gas-bearing zones within any or all of the three formations within the Unitized Interval, and shall otherwise take steps as may be necessary to protect these gas-bearing intervals.

(3) The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(4) Injection into each of the wells shown on Exhibit "A" shall be accomplished through 2 3/8 inch internally plastic-lined tubing installed in a packer located within 100 feet of the uppermost injection perforations or open hole interval. The casing-tubing annulus in each well shall be filled with an inert fluid and a gauge or approved leak-detection device shall be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

(5) The injection wells or pressurization system shall be equipped with a pressure control device or acceptable substitute that will limit the surface injection pressure to no more than 1121 psi.

(6) The Division Director may administratively authorize a pressure limitation in excess of the above upon a showing by the operator that such higher pressure will not result in the fracturing of the injection formation or confining strata.

(7) Prior to commencing injection operations into the Elliot Monterey Well No. 5 (API No. 30-025-06334), the Lockhart B-11 Well No. 4 (API No. 30-025-06476), the Lockhart B-11 Well No. 6 (API No. 30-025-06527), the Lockhart B-11 Well No. 17 (API No. 30-025-06536) and the Lockhart B-12 Well No. 4 (API No. 30-025-06539), the deeper perforations below the Unitized Interval in each of these wells shall be squeeze cemented or otherwise isolated by a method approved by the Hobbs District Office of the Division.

(8) Prior to commencing injection operations, the casing in each well shall be pressure tested throughout the interval from the surface down to the proposed packer setting depth to assure the integrity of such casing.

(9) The operator shall give advance notice to the supervisor of the Division's Hobbs District Office of the date and time (i) injection equipment will be installed, (ii) the mechanical integrity pressure tests will be conducted on the injection wells, and (iii) remedial plug back work will be conducted on the wells described in Ordering Paragraph No. (7), so that these operations may be witnessed.

(10) The operator shall immediately notify the supervisor of the Division's Hobbs District Office of the failure of the tubing, casing or packer in any of the injection wells or the leakage of water, oil or gas from or around any producing or plugged and abandoned well within the project area, and shall promptly take all steps necessary to correct such failure or leakage.

(11) The waterflood project is hereby designated the East Blinebry-Drinkard Unit Waterflood Project, and the applicant shall conduct injection operations in accordance with Division Rules No. 701 through 708, and shall submit monthly progress reports in accordance with Division Rules No. 706 and 1115.

(12) The injection authority granted herein for each well shown on Exhibit "A" shall terminate one year after the date of this order if the operator has not commenced injection operations into the wells; provided, however, the Division, upon written request by the operator, may grant an extension for good cause.

(13) The East Blinebry-Drinkard Unit Waterflood Project is hereby certified as an "Enhanced Oil Recovery Project." The project area shall initially comprise the area described in Finding Paragraph No. (3), provided however, the project area and/or the producing wells eligible for the enhanced oil recovery (EOR) tax rate may be contracted and reduced based upon the evidence presented by the applicant in its demonstration of a positive production response.

(14) To be eligible for the EOR tax rate, the operator shall advise the Division of the date and time water injection commences within the secondary recovery project. At that time, the Division will certify the project to the New Mexico Taxation and Revenue Department.

(15) At such time as a positive production response occurs, and within five years from the date the project was certified to the New Mexico Taxation and Revenue Department, the applicant must apply to the Division for certification of a positive production response. This application shall identify the area benefiting from enhanced oil recovery operations and the specific wells eligible for the EOR tax rate. The Division may review the application administratively or set it for hearing. Based upon the evidence presented, the Division will certify to the New Mexico Taxation and Revenue Department those wells that are eligible for the EOR tax rate.

(16) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MARK E. FESMIRE, **P.E.**
Director

S E A L

Exhibit "A"
Case No. 13503
Division Order No. R-12394
East Blinebry-Drinkard Waterflood Project
Approved Injection Wells (All in Township 21 South, Range 37 East, NMPM)

Well Name & Number	API Number	Well Location	Injection Interval	Packer Depth	Maximum Surface Injection Pressure
Elliot "B" Well No. 1	30-025-06325	2970' FSL & 330' FWL (Unit M) Section 1	5,880'-5,971' OH	5,830'	1121 PSIG
Elliot-Monterey Well No. 5	30-025-06334	660' FSL & 810' FWL (Unit U) Section 1	5,810'-5,987' Perf.	5,760'	1121 PSIG
Lockhart B-11 Well No. 4	30-025-06476	330' FNL & 1650' FWL (Unit C) Section 11	5,943'-6,730' Perf.	5,893'	1121 PSIG
Lockhart B-11 Well No. 6	30-025-06527	330' FNL & 330' FEL (Unit A) Section 11	6,595'-6,766' Perf.	6,445'	1121 PSIG
Lockhart B-11 Well No. 8	30-025-06478	660' FSL & 1980' FEL (Unit O) Section 11	5,604'-6,650' Perf.	5,554'	1121PSIG
Lockhart B-11 Well No. 9	30-025-06479	660' FNL & 330' FEL (Unit A) Section 11	5,759'-5,852' Perf.	5,709'	1121 PSIG
Lockhart B-11 Well No. 11	30-025-06481	1980' FSL & 330' FEL (Unit I) Section 11	5,696'-6,703' Perf.	5,646'	1121 PSIG
Lockhart B-11 Well No. 14	30-025-06529	1650' FNL & 1650' FEL (Unit G) Section 11	5,724'-5,894' Perf.	5,674'	1121 PSIG
Lockhart B-11 Well No. 17	30-025-06536	1980' FNL & 1980' FEL (Unit G) Section 11	6,582'-6.708' Perf.	6,520'	1121 PSIG
Lockhart B-11 E Well No. 1	30-025-06535	2310' FNL & 330' FWL (Unit E) Section 11	6,453'-6,570' Perf.	6,403'	1121 PSIG
Lockhart B-12 Well No. 4	30-025-06539	1650' FNL & 660' FWL (Unit E) Section 12	5,740'-6,747' Perf.	5,690'	1121 PSIG
Lockhart B-12 Well No. 6	30-025-06541	330' FNL & 1980' FWL (Unit C) Section 12	5,796'-5,996' Perf.	5,746'	1121 PSIG
Lockhart B-12 Well No. 11	30-025-06546	1980' FNL & 660' FWL (Unit E) Section 12	5,712'-5,908' Perf.	5,662'	1121 PSIG
Lockhart B-13 A Well No. 2	30-025-06556	1980' FNL & 660' FWL (Unit E) Section 13	5,680'-6,703' Perf.	5,630'	1121 PSIG
Lockhart B-14 A Well No. 3	30-025-06575	660' FNL & 330' FEL (Unit A) Section 14	5,741'-5,877' Perf.	5,691'	1121 PSIG
Chesher Well No. 2	30-025-06550	660' FSL & 660' FWL (Unit M) Section 12	5,720'-5,815' Perf.	5,670'	1121 PSIG
Gulf Bunin Well No. 2	30-025-06566	660' FNL & 1650' FWL (Unit C) Section 13	5,702'-5,888' Perf.	5,652'	1121 PSIG

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

DATE RECORD: First Rec: 4/22/2018 **Admin Complete:** 4/22/2018 **or Suspended:** _____ Add. Request/Reply: _____

ORDER TYPE: (WFX) / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: R-12354 FDI-292

Well No. 21 Well Name(s): EBDU

API : 30-0 25-06523 Spud Date: April 29, 1956 New or Old (EPA): O (*UIC Class II Primacy 03/07/1982*)

Footages 660 FNL 1980 FEL Lot ___ or Unit B Sec 11 Tsp 21S Rge 37E County Lea

General Location: ~3 miles N/Eunice Pool: Eunice;BLI-T-DR Pool No.: 22560

BLM 100K Map: JAL Operator: Apache Corp OGRID: _____ Contact: _____

COMPLIANCE RULE 5.9: Total Wells: 2445 Inactive: 4 **Fincl Assur:** O/C Compl. Order? N/A **IS 5.9 OK?** Y **Date:** 2-20-2018

WELL FILE REVIEWED ○ Current Status: Active

WELL DIAGRAMS: NEW: Proposed ○ or **RE-ENTER:** Before Conv. ○ After Conv. (C) ~~Logs in Imaging:~~ X

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __ Surface	10 5/8" / 8 5/8"	1396		700	Circ / calc*
Planned __or Existing __ Interm/Prod	7 7/8" / 5 1/2"	5932		1626	Circ (B)
Planned __or Existing __ Interm/Prod					
Planned __or Existing __ Prod/Liner					
Planned __or Existing __ Liner					
Planned __or Existing __ OH / (PERF)	5645-5932		Inj Length		

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		BL	5644
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:			
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 5932 PBTD _____

NEW TD _____ NEW PBTD _____

NEW Open Hole ○ or NEW Perfs (C)

Tubing Size 2 3/8 in. Inter Coated? Y

Proposed Packer Depth 5535 ft

Min. Packer Depth 5545 (100-ft limit)

Proposed Max. Surface Press. _____ psi

Admin. Inj. Press. 2100 (B) (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NA Noticed? ___ **BLM Sec Ord** ○ **WIPP** ○ Noticed? ___ **Salt/Salado** T: ___ B: ___ **NW: Cliff House fm** ___

FRESH WATER: Aquifer Quaternary Max Depth 75' **HYDRO AFFIRM STATEMENT By Qualified Person** (A)

NMOSE Basin: Capitan **CAPITAN REEF:** thru ___ adj ___ (NA) **No. GW Wells in 1-Mile Radius?** 1 FW Analysis? Y

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

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

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

AOR Wells: 1/2-M Radius Map and Well List? Y **No. Penetrating Wells:** 40 [AOR Horizontals: Ø AOR SWDs: ~~Ø~~]

Penetrating Wells: No. Active Wells ~~40~~ 35 Num Repairs? ___ on which well(s)? _____ Diagrams? ___

Penetrating Wells: No. P&A Wells 5 Num Repairs? ___ on which well(s)? _____ Diagrams? Y

NOTICE: Newspaper Date 1-22-2018 Mineral Owner BLM/NM SLO Surface Owner Whitley Ranch N. Date 1-02-2018

RULE 26.7(A): Identified Tracts? Y Affected Persons: Mitchell Brown, McElvain, Chevron, Standridge N. Date 1-02-2018 1-05-2018

Order Conditions: **Issues:** (A) run C-13-C in 5 1/2" / casing to surface

Additonal COAs: (B) FDI 292 Approved inj of 2100 BSI

(C) Blinebry injector