DATE IN 3/3/17	SUSPENSE	ENGINEER MAM	LOGGED IN 3/3/17	TYPE WFX	APP NO pKSC1706240732

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- 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

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] WFX-963

Apache Corporation (OGRID 873)
East Blinebry Drinkard Unit 54
30-025-06567
Correct → ~~Eunice; BLI-TU-DR, North~~ (22900)
~~Blinebry, Oil & Gas~~ (Only)
~~6660~~

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

Blinebry only [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
X WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] X Offset Operators, Leaseholders or Surface Owner

[C] X Application is One Which Requires Published Legal Notice

[D] X Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] X For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

RECEIVED
MAR 1 3

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **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		Consultant	2-21-17
Print or Type Name	Signature	Title	Date

(505) 466-8120 — 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? _____ 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 54
30-025-06567

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).

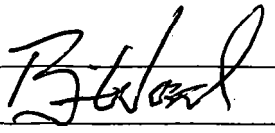
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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:  DATE: FEB. 20, 2017

E-MAIL ADDRESS: brian@permitswest.com

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

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

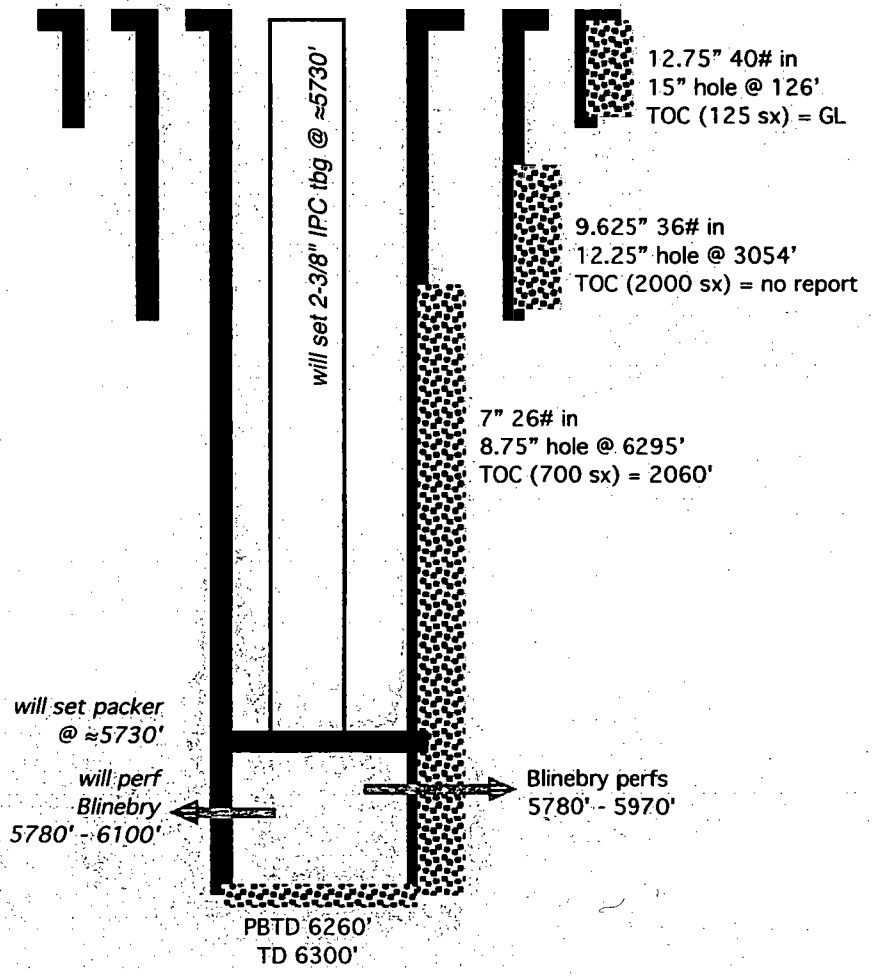
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: EAST BLINEBRY DRINKARD UNIT 54

WELL LOCATION:	660' FNL & 2310' FEL	B	13	21 S	37 E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 15" Casing Size: 12.75"

Cemented with: 125 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: CIRCULATED

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 2000 sx. *or* _____ ft³

Top of Cement: no report Method Determined: _____

Production Casing

Hole Size: 8.75" Casing Size: 7"

Cemented with: 700 sx. *or* _____ ft³

Top of Cement: 2060' Method Determined: TEMP. SURV.

Total Depth: 6300'

Injection Interval

5780 feet to 6100'

(Perforated or Open Hole; indicate which)

Side 2

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: ≈5730'

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 (2730'), 7 RIVERS (3000'), QUEEN (3640'), GRAYBURG (3943'), SAN ANDRES (4207')

   UNDER: TUBB (≈6250'), DRINKARD (≈6615), ABO (≈6895')

I. Purpose is to convert a 6300' deep oil well to a water injection well to increase oil recovery. The well will inject (5780' - 6100') into the Blinebry, which is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900).

The well and zone are part of the East Blinebry Drinkard Unit (Case Numbers 13503 and 13504, Order Numbers R-12394 & -12395) that was established in 2005 by Apache. There have been 4 subsequent WFX approvals (WFX-819, -842, -904, -909). This is an active water flood. Twenty-three water injectors are active in the Unit. An 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: fee ("Gulf Bunin")
Lease Size: 120 acres (see Exhibit A for maps and C-102)
Closest Lease Line: 660'
Lease Area: N2NW4 & NWNE of Section 13, T. 21 S., R. 37 E.
Unit Size: 2,080 acres BLM Unit #: NMNM-112723X
Closest Unit Line: 990'
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 (12.75", 40#) is set at 126' in a 15" hole. Cement (125 sx) circulated to the surface.

Intermediate casing (9.625", 36#) was set at 3054' in a 12.25" hole and cemented with 2000 sacks to an unknown top.

Production casing (7", 26#) was set at 6295' in an 8.75" hole and cemented to 2060' (temperature survey) with 700 sacks.

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 ≈5730'. (Disposal interval will be 5780' - 6100'.)

A. (4) A lock set injection packer will be set at ≈5730' (≈50' above the highest proposed perforation of 5780').

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 5780' to 6100' in a cased hole. Well is currently perforated from 5780' to 5970'.

B. (3) Well was originally drilled in 1955 as a Blinebry oil well.

B. (4) The well will be perforated from 5780' to 6100' with 2 shots per foot. Shot diameter = 0.40".

B. (5) Next likely higher oil or gas zone is the San Andres. Its bottom is at 5354'. Injection will occur in the Blinebry. Blinebry top is at 5747'. Injection interval will be 5780' to 6100'.

The 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 ≈6250'. Deepest perforation will be 6100'.

IV. This is not a horizontal or vertical expansion of an existing injection project. Case files 13503 and 13504) describe the water flood. There have been four WFX approvals: (WFX-819, -842, -904, -909). Closest unit boundary is 990' east. Two existing injection wells are within a half-mile radius and two more are just 7' and 9' beyond the radius. All four injectors are in the unit (see Exhibit B).

V. Exhibit B shows all 26 existing wells (19 oil wells + 4 P & A wells + 2 water injection wells + 1 windmill) within a half-mile radius, regardless of depth. Exhibit C shows all 307 existing wells (200 oil or gas producing wells + 43 injection or disposal wells + 37 P & A wells + 27 water supply wells) within a two-mile radius.

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

Aliquot Parts in Area of Review	Lessor	Lease	Lessee(s) of Record	Blinebry operator
E2SE4 12-21s-37e	fee	M W Coll	Apache	Apache
NWSE & NWSW 12-21s-37e	fee	Coll	Apache	Apache
NESW & SWSW 12-21s-37e	fee	Chesher	Apache	Apache
SESW 12-21s-37e	fee	Plumlee	Apache	Apache
SWSE 12-21s-37e	fee	Fields	Apache	Apache
NENE 13-21s-37e	fee	Bunin	Apache	Apache
NWNE & N2NW4 13-21s-37e	fee	Gulf Bunin	Apache	Apache
SENE 13-21s-37e	BLM	NMLC-032096B	Apache, Chevron, & ConocoPhillips	Apache
NESE 13-21s-37e	BLM	NMLC-032096B	Apache, Chevron, & ConocoPhillips	none
SWNE, S2NE4, NWSE, & N2SW4 13-21s-37e	BLM	NMNM-125057	Apache, BP, & Chevron	Apache
SWSW 7-21s-38e	BLM	NMLC-056011B	Elliott Hall Co. & Elliott Industries	Apache
NWNW 18-21s-38e	fee	Bunin	Apache	Apache
SWNW 18-21s-38e	fee	Bunin	Apache	none

VI. Twenty-six existing wells are within a half-mile radius. Twenty-five of the wells penetrated the Blinebry. The penetrators include 19 oil wells, 4 P&A wells, and 2 water injection wells. A table abstracting the well construction details and histories of the penetrators is in Exhibit F. Diagrams of the P&A wells are also in Exhibit G, sorted by API number. The penetrators are:

API	OPERATOR	WELL	TYPE WELL	UNIT-SECTION	TVD	ZONE	FEET FROM EBDU 54
3002539707	Apache	EBDU 093	O	B-13	7200	Eunice; Bli-Tu-Dr, N	905
3002539035	Apache	EBDU 094	O	C-13	7045	Eunice; Bli-Tu-Dr, N	908
3002538537	Apache	EBDU 072	O	B-13	7200	Eunice; Bli-Tu-Dr, N	931
3002539274	Apache	EBDU 078	O	N-12	7045	Eunice; Bli-Tu-Dr, N	981
3002506566	Apache	EBDU 053	I	C-13	6010	Eunice; Bli-Tu-Dr, N	1301
3002506553	Apache	Fields 001	P&A	O-12	5938	Eunice; Bli-Tu-Dr, N	1320
3002506564	Solar	Bunin Estate 003	P&A	A-13	6013	Eunice; Bli-Tu-Dr, N	1326
3002539547	Apache	Bunin 006	O	A-13	7900	Wantz; Abo	1359
3002506560	Apache	EBDU 039	O	G-13	5999	Eunice; Bli-Tu-Dr, N	1361
3002506565	Apache	Bunin 003Y	P&A	A-13	7400	Wantz; Abo	1427
3002539568	Apache	EBDU 082	O	C-13	7534	Eunice; Bli-Tu-Dr, N	1600
3002506557	Apache	EBDU 038	O	F-13	6050	Eunice; Bli-Tu-Dr, N	1637
3002506554	Apache	Plumlee 001	O	N-12	7674	Wantz; Abo	1639
3002539378	Apache	EBDU 079	O	N-12	6997	Eunice; Bli-Tu-Dr, N	1706

3002539844	Apache	EBDU 104	O	J-13	7209	Eunice; Bli-Tu-Dr, N	1998
3002540144	Apache	Bunin 009	O	A-13	7509	Eunice; Bli-Tu-Dr, N	2001
3002539679	Apache	EBDU 111	O	G-13	7208	Eunice; Bli-Tu-Dr, N	2057
3002506568	Apache	EBDU 055	I	D-13	6504	Eunice; Bli-Tu-Dr, N	2095
3002539036	Apache	EBDU 092	O	O-12	7185	Eunice; Bli-Tu-Dr, N	2096
3002540345	Apache	Lockhart B-13 A 014	O	H-13	7495	Wantz; Abo	2104
3002539823	Apache	M W Coll 001	O	P-12	7302	Eunice; Bli-Tu-Dr, N	2117
3002539273	Apache	EBDU 077	O	J-12	7068	Eunice; Bli-Tu-Dr, N	2174
3002506563	Apache	Gulf Bunin 001	P&A	D-13	7144	Wantz; Abo	2296
3002538500	Apache	EBDU 068	O	N-12	7000	Eunice; Bli-Tu-Dr, N	2375
3002539459	Apache	EBDU 083	O	L-13	7000	Eunice; Bli-Tu-Dr, N	2612
3002506556	*Apache*	*EBDU 037*	*I*	*E-13*	*6750*	*Eunice; Bli-Tu-Dr, N*	*2647*

VII. 1. Average injection rate will be ≈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 ≈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 15,491,353 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-three 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, 253' thick, and consists of tan to dark gray shallow marine carbonates, many of which have been dolomitized. Core filling and replacement anhydrite are common in the limestone. Nodular anhydrite is common in the dolomite. Five per cent porosity cut off is used to determine pay zones. Impermeable shale and carbonates vertically confine the interval.

There are currently 108 Blinebry 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.

Estimated formation depths are:

Ogallala = 0'
Rustler = 1475'
Top salt = 1530'
Bottom salt = 2600'
Yates = 2730'
Seven Rivers = 3000'
Queen = 3640'
Grayburg = 3943'
San Andres = 4207'
Glorieta = 5355'
Blinebry = 5747'
injection interval = 5780' - 6100'
Blinebry marker = 5822'
Tubb = ≈6250'
TD = 6300'

According to Office of the State Engineer records (Exhibit H), one fresh water well is within a mile radius. It was not found during a January 8 and 9, 2017 inspection. Deepest water well within 2 miles is 160'.

Three samples (Exhibit H) were collected during that inspection. One sample was collected from a windmill ½ mile southwest of EBDU 54. The windmill does not match State Engineer records. A second sample (Fabersham) was collected from a well ≈6200' southwest of EBDU 54. The Fabersham well may be CP 00562. A third sample (Sec. 23 tank) was collected from a tank ≈8000' southwest of EBDU 54. The Section 23 tank may be CP 00235 POD 109 No existing underground drinking water sources are below the injection interval within a mile radius.

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 (Ogallala) and the top of the injection interval.

Produced water is currently being injected (199 wells) or disposed (8 wells) into the Blinebry-Tubb-Drinkard, San Andres, Grayburg, Queen, Seven Rivers, and Yates within T. 21 S., R. 37 E.

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

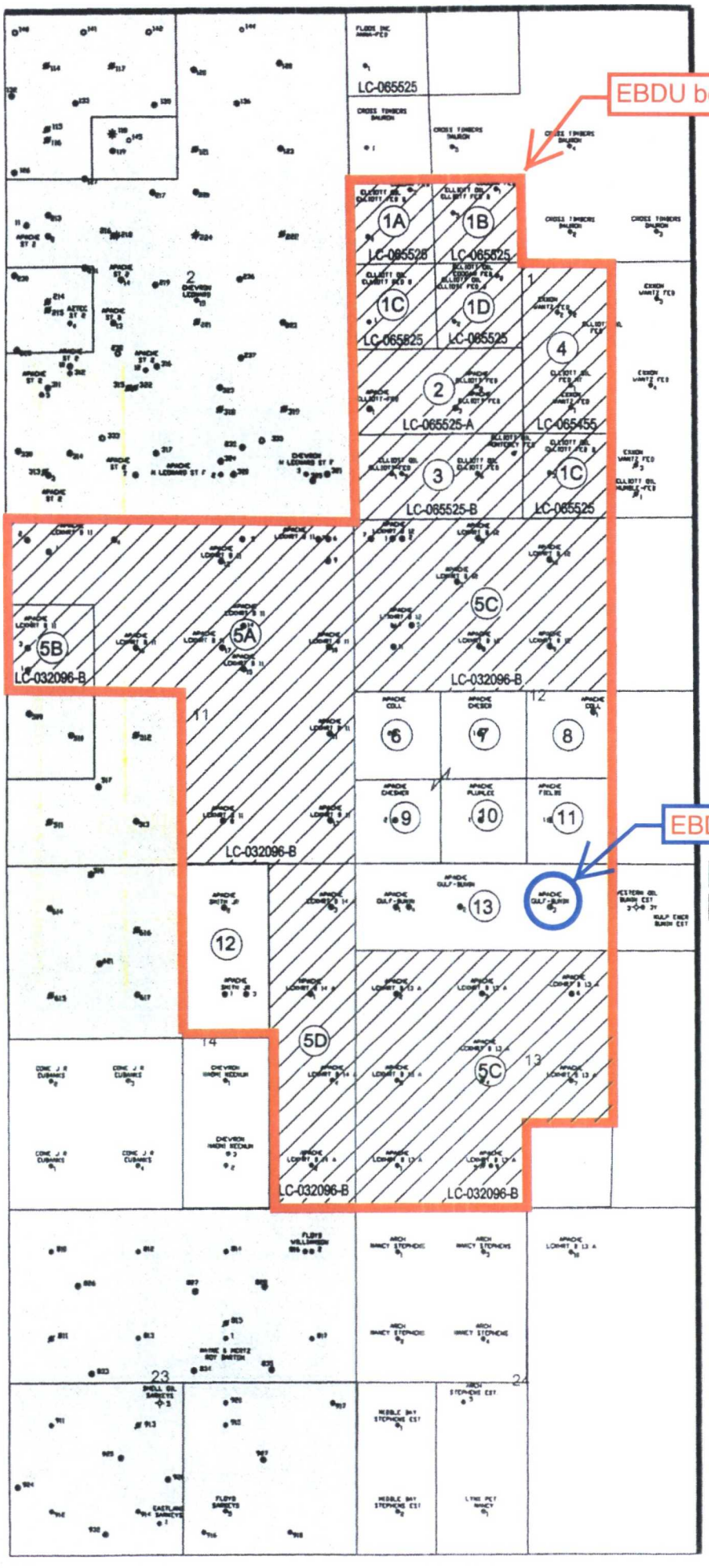
X. Microlaterolog and gamma ray logs are on file with NMOCD.

XI. One fresh water well is within a mile. Analyses from three fresh water wells within ≈8000' are attached (Exhibit H).

XII. Apache is not aware of any geologic or engineering data that may indicate the injection interval is in hydrologic connection with any underground sources of water. Closest Quaternary faults are ≈112 miles southwest (Exhibit I). There are 108 Blinebry injection wells in New Mexico. Previously approved water flood expansions in the Unit include WFX-819, -842, -904, and -909.

XIII. A legal ad (see Exhibit J) was published on December 25, 2016. Notice (this application) has been sent (Exhibit K) to the surface owner (N B Bunin Properties LP), offset Blinebry operators (only Apache), lessees (Apache, BP, Chevron, ConocoPhillips. Elliott Hall Co., & Elliott Industries), and operating rights holders (ConocoPhillips). Apache operates the only Blinebry wells in the area of review.

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)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-025-06567	22900	Eunice; Blinebry-Tubb-Drinkard, North

4 Property Code	5 Property Name	6 Well Number
35023	EAST BLINEBRY DRINKARD UNIT	54

7 OGRID No.	8 Operator Name	9 Elevation
00873	Apache Corporation	3450' GR

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	13	21S	37E	B	660	North	2310	East	Lea

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
40			

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

16

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Sophie Mackay 03/28/2007
Signature Date

Sophie Mackay
Printed Name

18 SURVEYOR CERTIFICATION

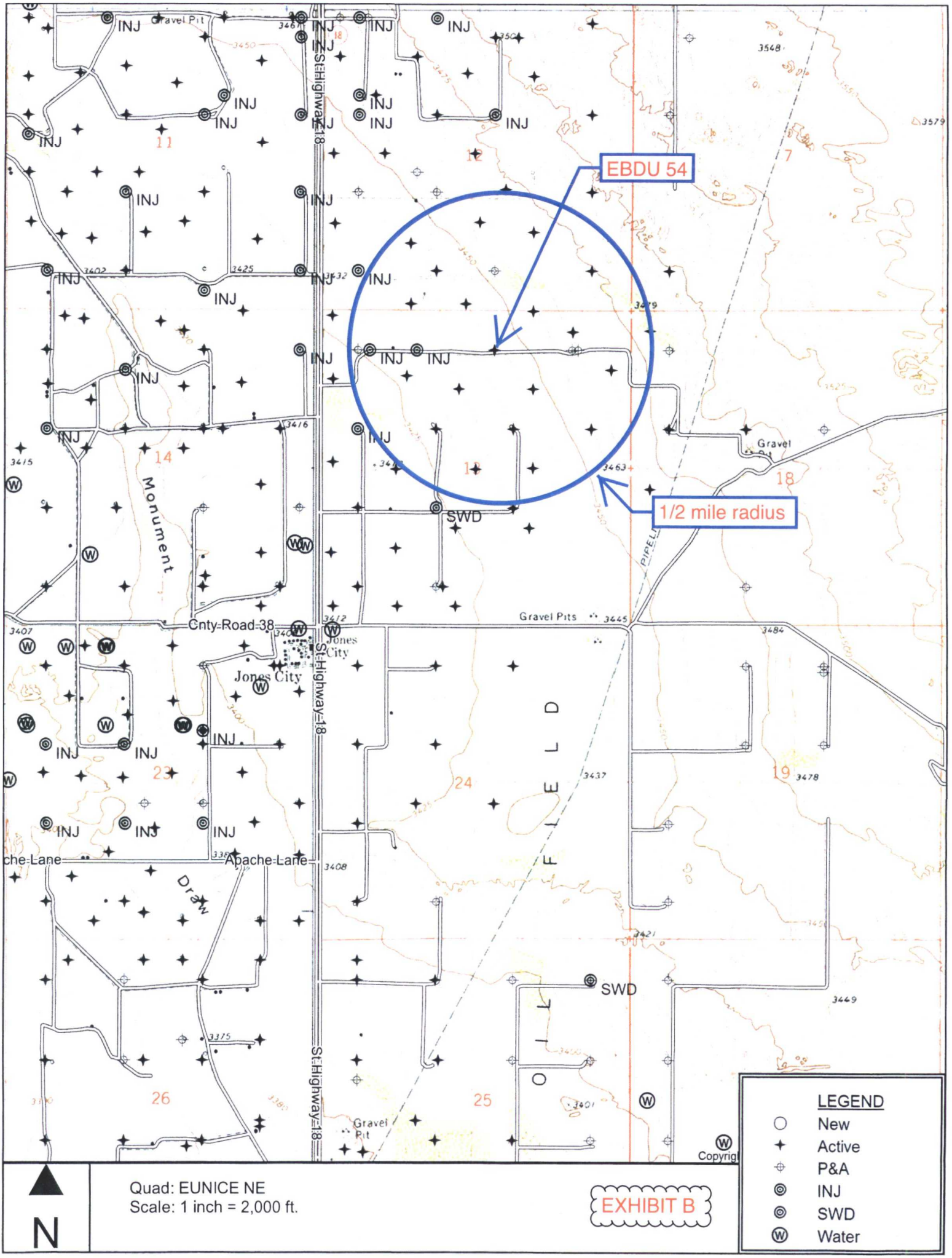
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

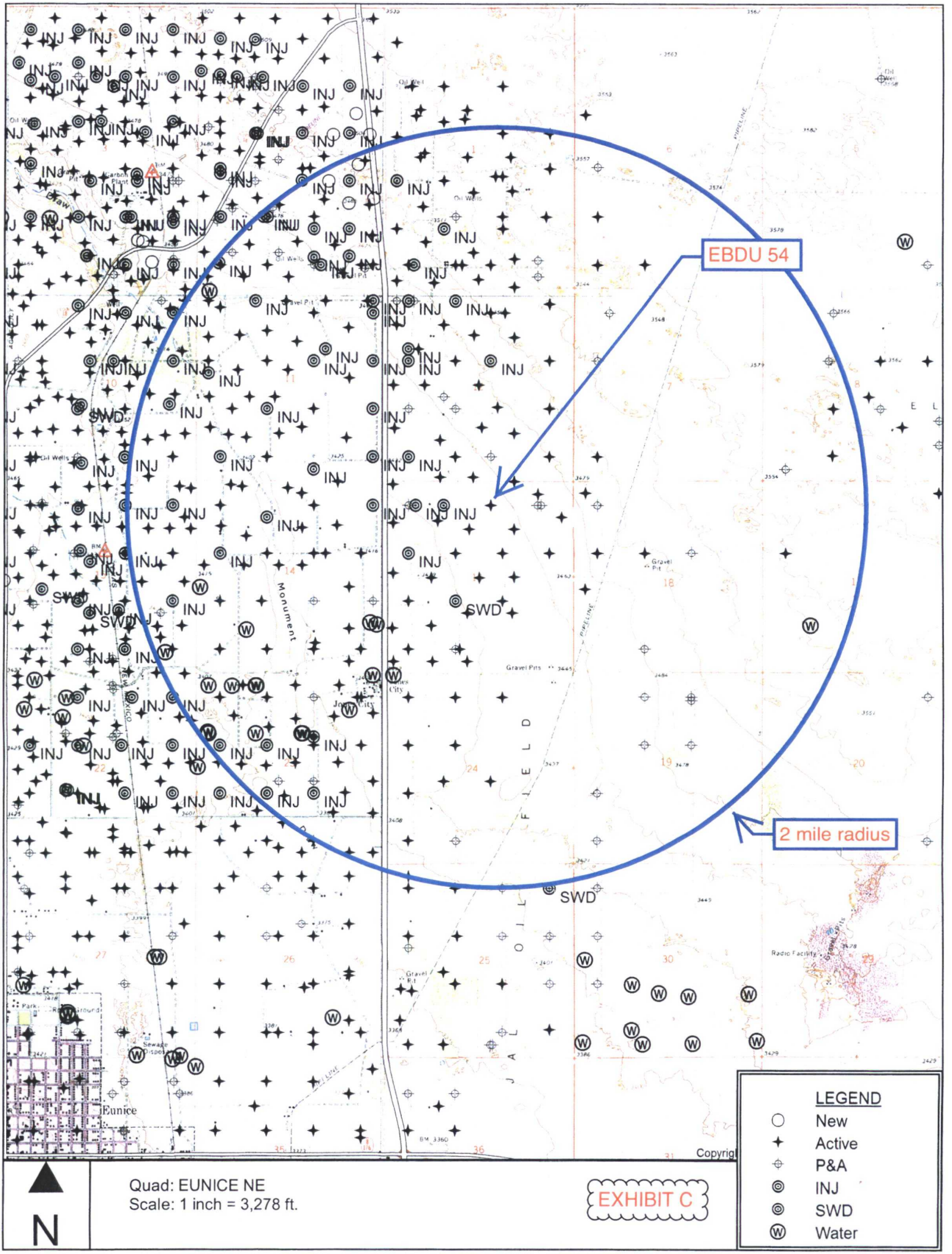
Date of Survey

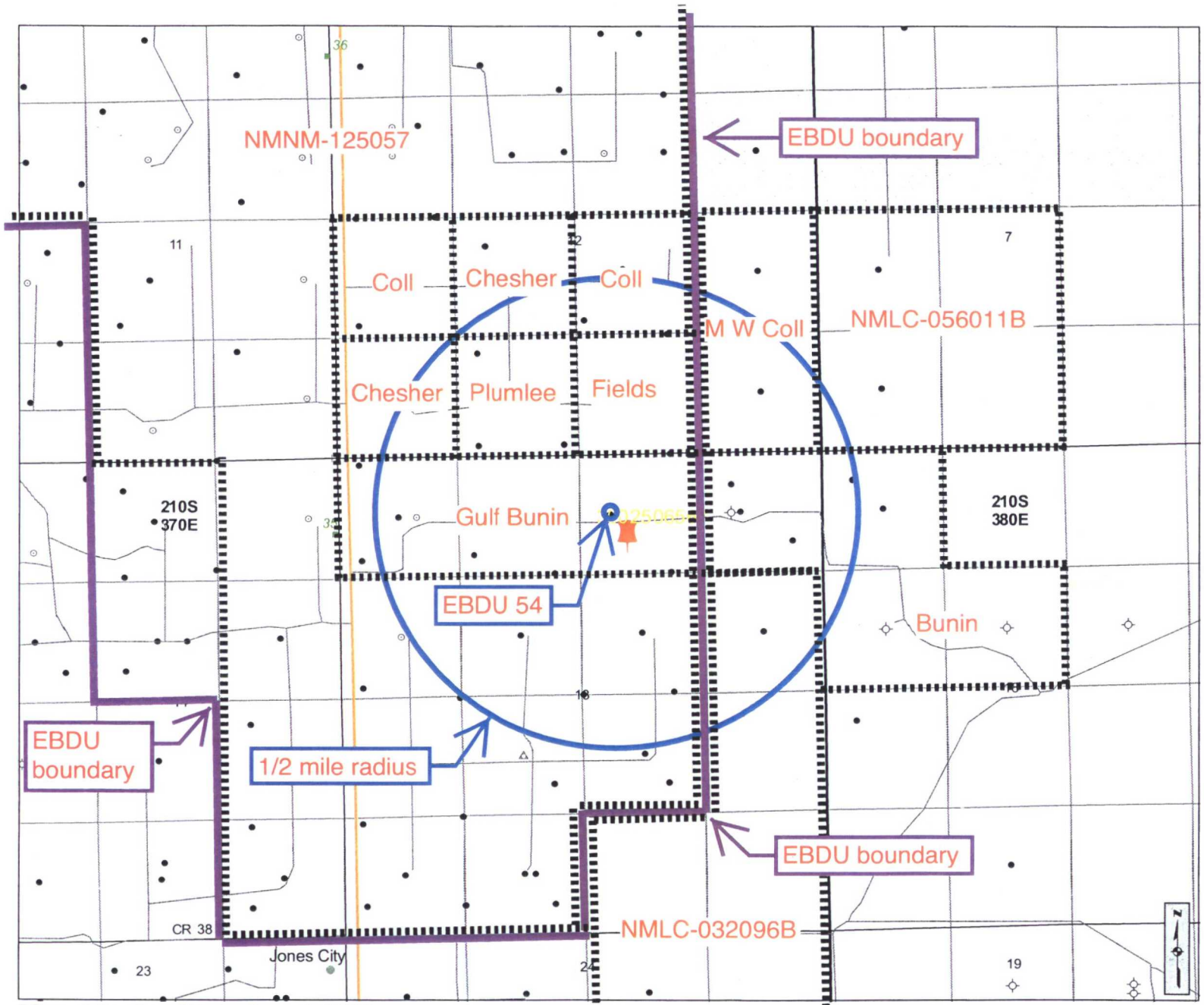
Signature and Seal of Professional Surveyor:

Certificate Number

EXHIBIT A


EBDU 54
1/2 mile radius
St Highway 18
Monument
Cnty Road 38
Jones City
Gravel Pit
Gravel Pits
SWD
INJ
Apache Lane
Draw
OIL FIELD
LEGEND
New
Active
P&A
INJ
SWD
Water
N
Quad: EUNICE NE
Scale: 1 inch = 2,000 ft.
EXHIBIT B


EBDU 54
2 mile radius
Eunice
Monument
JAL FIELD
Quad: EUNICE NE
Scale: 1 inch = 3,278 ft.
N
EXHIBIT C
LEGEND
New
Active
P&A
INJ
SWD
Water



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

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

State Trust Lands
- Surface Estate
- Subsurface Estate
- Surface and Subsuface Estate

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

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

NMOCD Oil and Gas Wells
- CO^2
- Gas
- Injection
- Miscellaneous
- Oil
- Salt Water Disposal
- Water
- DA or PA

New Mexico State Land Office
Oil, Gas and Minerals

0 0.045 0.09 0.18 0.27 0.36
Miles

Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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

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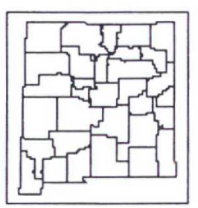
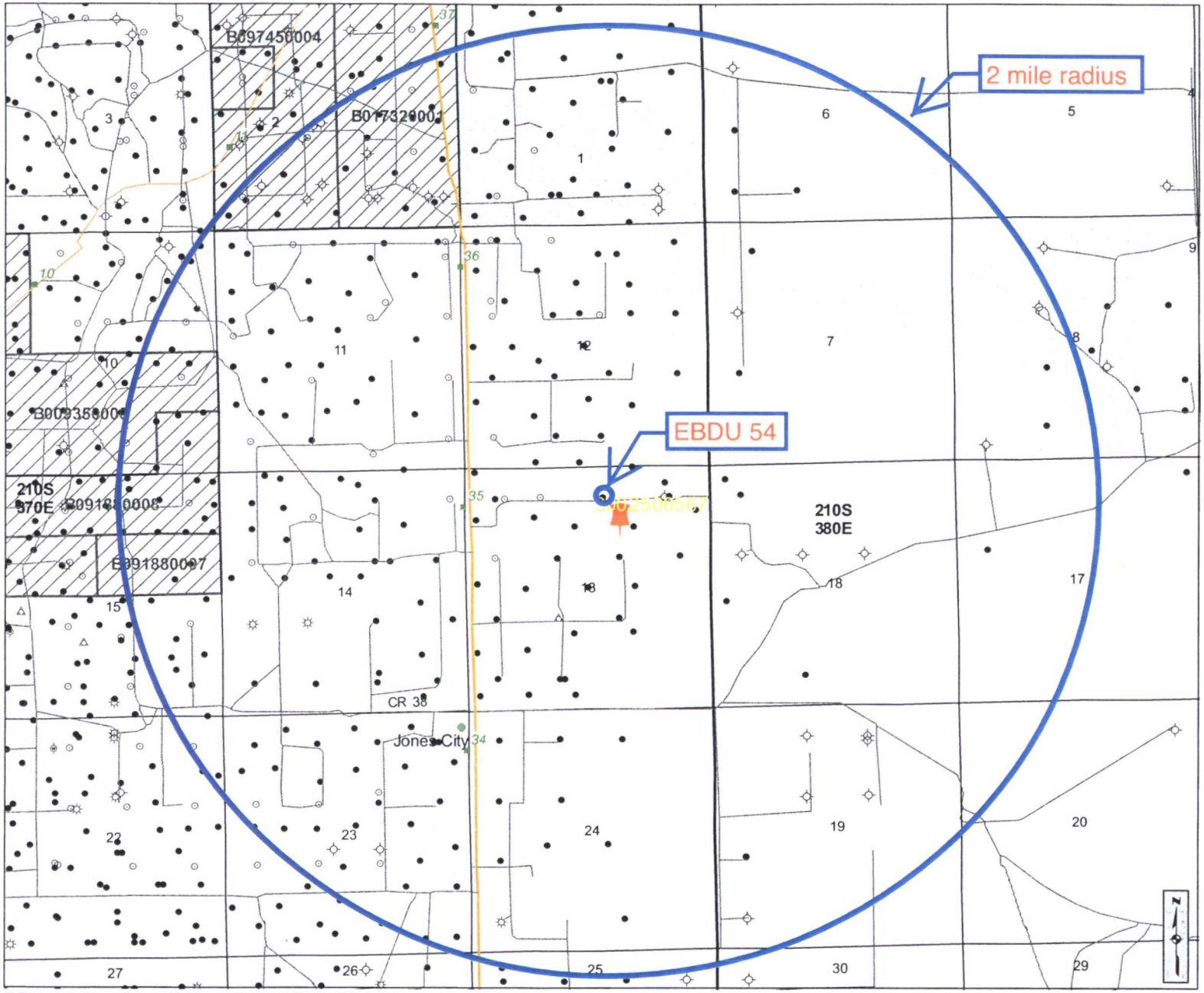
EXHIBIT D



www.nmstatelands.org



Cartographic Features

- County Boundaries
- County Seats
- City, Town or Village
- SLO District Offices
- SLO District Boundary
- Hwy Mileposts
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- Oil, Gas and Coal Only
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- Surface Estate
- Subsurface Estate
- Surface and Subsuface Estate

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- Agricultural Leases
- Commercial Leases
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- Not Available for Oil and Gas Leasing
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Oil and Gas Related Features

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

NMOCD Oil and Gas Wells

- CO^2
- Gas
- Injection
- Miscellaneous
- Oil
- Salt Water Disposal
- Water
- DA or PA

New Mexico State Land Office

Oil, Gas and Minerals

0 0.125 0.25 0.5 0.75 1 Miles

Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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

Created On: 2/4/2017 5:06:51 PM

EXHIBIT E

www.nmstatelands.org

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
EBDU 093	6/10/10	7200	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1521	700 sx	GL	Circ
3002539707					7.875	5.5	7200	1125 sx	GL	Circ
B-13-21S-37E										
EBDU 094	10/7/08	7045	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1470	750 sx	GL	Circ
3002539035					7.875	5.5	7045	1600 sx	70	CBL
C-13-21S-37E										
EBDU 072	2/8/08	7200	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1500	700 sx	GL	Circ
3002538537					7.875	5.5	7200	1150 sx	130	CBL
B-13-21S-37E										
EBDU 078	10/21/09	7045	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1495	700 sx	GL	Circ
3002539274					7.875	5.5	7045	1200 sx	GL	Circ
N-12-21S-37E										
EBDU 053	8/18/54	6010	Eunice; Bli-Tu-Dr, North	I	17.5	13.325	190	300 sx	GL	calc
3002506566					12.25	9.625	3001	1225 sx	1925	no report
C-13-21S-37E					8.75	7	6010	500 sx	4000	no report
Fields 001	3/25/56	5938	Eunice; Bli-Tu-Dr, North	P&A	17	13.325	314	300 sx	GL	Circ
3002506553					11	8.625	3249	1450 sx	GL	Circ
O-12-21S-37E					7.875	5.5	5937	100 sx	5556	Calc
Bunin Estate 003	12/23/57	6190	Eunice; Bli-Tu-Dr, North	P&A	17.25	13.375	125	150 sx	GL	Circ
3002506564					12	8.625	3000	no report	no report	N/A
A-13-21S-37E					7.875	open hole	N/A	N/A	N/A	N/A
Bunin 006	11/8/09	7900	Wantz; Abo	O	12.25	8.625	1399	700 sx	GL	Circ
3002539547					7.875	5.5	7900	1300 sx	80	no report
A-13-21S-37E										

EXHIBIT F

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
EBDU 039	7/11/55	5999	Eunice; Bli-Tu-Dr, North	O	13.5	10.75	249	250 sx	no report	no report
3002506560					9.625	7.625	2950	1045 sx	no report	no report
G-13-21S-37E					6.75	5.5	5999	520 sx	no report	no report
Bunin 003Y	5/13/59	7400	Wantz; Abo	P&A	17	13.375	142	150 sx	GL	Circ
3002506565					11	8.625	3070	400 sx	2010	Temp Survey
A-13-21S-37E					7.875	5.5	7390	350 sx	5450	Temp Survey
EBDU 082	12/6/09	7534	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1392	650 sx	GL	Circ
3002539568					7.875	5.5	7550	1200 sx	85	no report
C-13-21S-37E										
EBDU 038	1/27/55	6050	Eunice; Bli-Tu-Dr, North	O		10.75	253	250 sx	no report	no report
3002506557						7.625	3149	1155 sx	no report	no report
F-13-21S-37E						5.5	6048	646 sx	3066	no report
Plumlee 001	3/1/52	7674	Wantz; Abo	O	17.25	13.375	210	250 sx	GL	Circ 85 sx
3002506554					11	8.625	3182	2200 sx	GL	Circ 500 sx
N-12-21S-37E					7.875	5.5	6950	250 sx	5300	Temp Survey
EBDU 079	9/23/09	6997	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1460	650 sx	GL	Circ
3002539378					7.875	5.5	6997	1000 sx	GL	Circ
N-12-21S-37E										
EBDU 104	10/31/10	7209	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1437	700 sx	GL	Circ 160 sx
3002539844					7.875	5.5	7209	1300 sx	50	log
J-13-21S-37E										
Bunin 009	6/7/11	7509	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1553	780 sx	GL	Circ 15 sx
3002540144					7.875	5.5	7509	2220 sx	GL	Circ 208 sx
A-13-21S-37E										

EXHIBIT F

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
EBDU 111	7/7/10	7208	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1469	750 sx	GL	Circ 160 sx
3002539679					7.875	5.5	7208	1200 sx	90	CBL
G-13-21S-37E										
EBDU 055	2/17/56	6504	Eunice; Bli-Tu-Dr, North	I	17.5	13.375	139	200 sx	GL	visual
3002506568					11.75	8.625	3024	2000 sx	GL	Circ
D-13-21S-37E					7.875	5.5	6499	600 sx	2700	Temp Survey
EBDU 092	9/15/08	7185	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1513	800 sx	GL	Circ
3002539036					7.625	5.5	7185	1600 sx	80	CBL
O-12-21S-37E										
Lockhart B13 A 14	1/26/12	7495	Wantz; Abo	O	12.25	8.625	1574	675 sx	GL	Circ 150 sx
3002540345					7.875	5.5	7495	1170	100	log
H-13-21S-37E										
MW Coll 001	8/4/10	7302	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1560	700 sx	GL	Circ 67 sx
3002539823					7.875	5.5	7302	1175 sx	GL	Circ 112 sx
P-12-21S-37E										
EBDU 077	10/13/09	7068	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1525	700 sx	GL	Circ
3002539273					7.875	5.5	7068	1100 sx	GL	Circ
J-12-21S-37E										
Gulf Bunin 001	9/18/53	7145	Wantz; Abo	P&A	16	13.375	183	225 sx	GL	Circ
3002506563					11	8.625	2868	1150 sx	825	Temp Survey
D-13-21S-37E					7.875	5.5	6965	700 sx	2667	calc
					4.75	OH	7145	N/A	N/A	N/A

EXHIBIT F

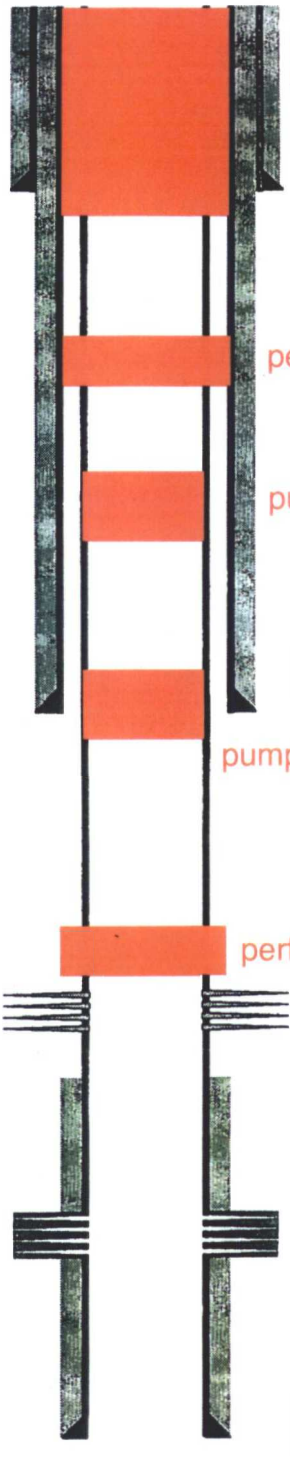
WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
EBDU 068	2/18/08	7000	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1450	650 sx	GL	Circ
3002538500					7.875	5.5	7000	1150 sx	230	CBL
N-12-21S-37E										
EBDU 083	9/3/09	7000	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1420	650 sx	GL	Circ
3002539459					7.875	5.5	7000	2350 sx	GL	Circ
L-13-21S-37E										
WBDU 037	8/17/53	6750	Eunice; Bli-Tu-Dr, North	I	17.5	13.325	262	250 sx	GL	calc
3002506556					12.25	9.625	3149	1675 sx	GL	calc
E-13-21S-37E					8.75	7	6748	651 sx	3286	calc
EBDU 048	3/1/56	5920	Eunice; Bli-Tu-Dr, North	I	17.5	13.325	314	300 sx	GL	Circ 20 sx
3002506550					12.25	8.625	3248	1500 sx	GL	Circ 230 sx
M-12-21S-37E					7.875	5.5	5919	100 sx	5457	calc

EXHIBIT F

Fields No. 1
API - 30-025-06553
660' FSL & 2310' FEL
Sec. 12 T-21S R-37E
Lea County, New Mexico
Spud Date - 3/1956

Apache CORPORATION
CENTRAL REGION

P&A 6-23-05



perforated @ 364' & circ. 100 sx to GL in & behind csg

Surface Casing (17" Hole)
13.375"48# 0'-314' 300 sxs cmt. TOC-Surf Circ.

Completions

Date	Zone	Perfs
Apr-56	Blinebry	5759 - 5777, 5810 - 5824, 5853 - 5882
Oct-71	Glorieta	5360 - 5380 Sqzd

perforated @ 1400' & squeezed 40 sx 1400' - 1210'

pumped 25 sx cmt 2308' - 2061'

Intermediate (11" Hole)
8.625" 32# 0'-3249' 1450 sxs cmt. TOC-Surf Circ.

pumped 25 sx cmt 3306' - 3058'

perforated @ 5100' & pumped 25 sx cmt 5146' - 4928'

Perfs @ 5360 - 5380

Backside Cmt @ 5556 Calc.

Perfs @ 5759 - 5882

Production Casing (7-7/8" Hole)
5.5" 15.5# 0'-5937' 100 sxs cmt. TOC-5556' Calc.

EXHIBIT G

Created by
CM 3/14/2005

Apache

WELL BORE INFO.

LEASE NAME	Gulf Bunin
WELL #	1
API #	30-025-06563
COUNTY	Lea, NM

660 FNL & 660 FWL
13-21s-37e
spud: 9-28-53
P&A: 6-5-15

0

16" Hole
13 3/8" 48# @ 183'
w/ 225 sx cmt to surf

Casing split @ 695'-696'

714

TOC @ 825' by TS

1429

2143

TOL @ 2645'

11" Hole
8 5/8" 36# @ 2868'
w/ 1150 sx cmt, TOC @ 825' by TS

2858

3572

4286

5001

5715

6430

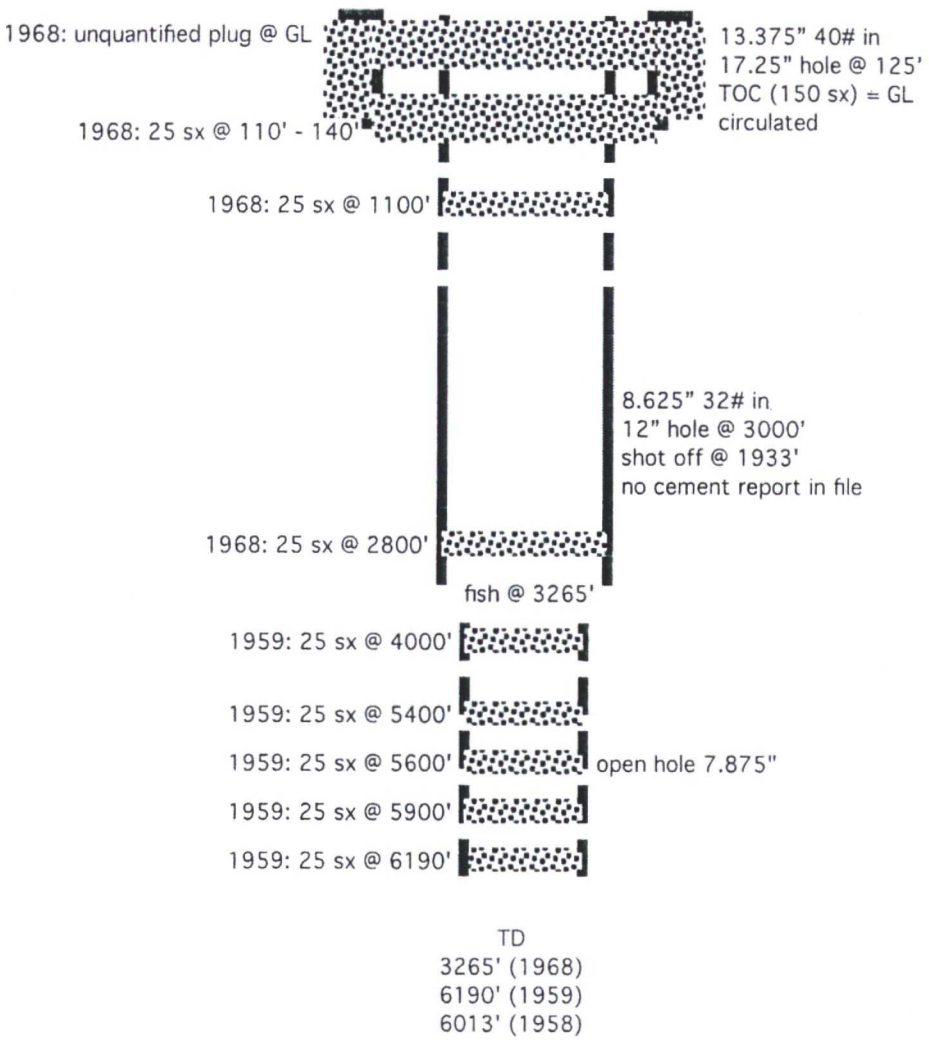
7 7/8" Hole
5 1/2" 15.5 # @ 2645'-6965'
w/ 700 sx cmt, Cal TOC @ TOL

7144

EXHIBIT G

Solar's Bunin Estate 3
30-025-06564
660 FNL & 990 FEL 13-21s-37e Lea County NM
spud: 12-23-57 & 12-1-68
P&A: 12-7-68, 5-11-59, & 10-22-58

(not to scale)



TD
3265' (1968)
6190' (1959)
6013' (1958)

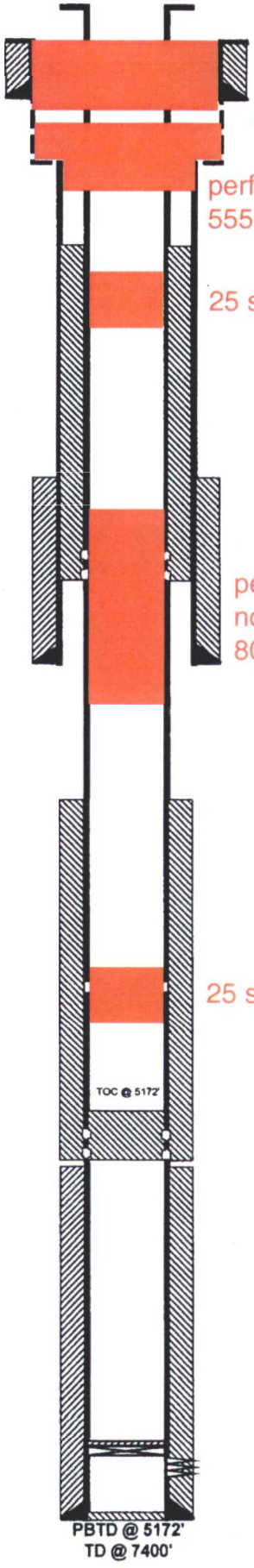
EXHIBIT G

Apache

WELL BORE INFO.

LEASE NAME	Bunin
WELL #	3Y
API #	30-025-06565
COUNTY	Lea, NM

660 FNL & 890 FEL
13-21-37e
spud: 5-13-59
P&A: 4-6-15



0

17" Hole
13 3/8" 48# @ 142'
w/150 sx CIRC to surf

8 5/8" csg cut & pulled @ 505'

739

TOC on 5 1/2" @ 972' (CBL)

1478

TOC on 8 5/8" @ 2010' (TS)

2217

Csg leak @ 2552'-2583'sqzd w/ 250 sx
Bottom of cmt from sqz (250 sx) @ 2595' by CBL

11" Hole
2956 **8 5/8" 24/32# @ 505'-3070'**
w/ 400 sx, TOC @ 2010' by TS

3695

TOC @ 3600' by CBL

4434

Csg bowl # 4666'

5173

Csg leak @ 5325'-5483' sqzd w/ 250 sx

TOC on 5 1/2" @ 5450' by TS

5912

6651

CIBP @ 6965' w/ 20' cmt

7 7/8" Hole
5 1/2" 15.5/17# @ 7390'
7390 **w/ 350 sx TOC @ 5450' by TS**

Abo perfs @ 7044'-7328'

PBTD @ 5172'
TD @ 7400'

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	Depth Well	Depth Water	Water Column
CP 00137 POD1			LE	2	2	1	13	21S	37E	676862	3595783*	224	65		
CP 00134 POD1			LE	1	1	1	24	21S	37E	676289	3594166*	1706	85		
CP 00562			LE	1	2	2	23	21S	37E	675887	3594159*	1927	136	65	71
CP 00239 POD1		CP	LE	1	1	2	23	21S	37E	675485	3594152*	2201	89	61	28
CP 00700			LE			2	23	21S	37E	675794	3593851*	2231	75	65	10
CP 00235 POD8		CP	LE	3	1	2	23	21S	37E	675485	3593952*	2345	94	58	36
CP 00236 POD1		CP	LE	3	1	2	23	21S	37E	675485	3593952*	2345	83		
CP 00235 POD1		CP	LE	2	2	1	23	21S	37E	675283	3594144*	2355	81		
CP 00240 POD1		CP	LE	4	2	1	23	21S	37E	675283	3593944*	2491			
CP 00241 POD1		CP	LE	4	2	1	23	21S	37E	675283	3593944*	2491	79		
CP 00235 POD10		CP	LE	1	3	2	23	21S	37E	675492	3593749*	2494	92	60	32
CP 00235 POD11		CP	LE	1	3	2	23	21S	37E	675492	3593749*	2494	97	60	37
CP 00237 POD1		CP	LE	1	3	2	23	21S	37E	675492	3593749*	2494	84		
CP 00235 POD2		CP	LE	1	2	1	23	21S	37E	675083	3594144*	2510	96	65	31
CP 01185 POD2			LE		1	3	14	21S	37E	674623	3594674	2641	70		
CP 01574 POD2		CP	LE	1	3	3	14	21S	37E	674654	3594594	2645	68	57	11
CP 00238 POD1		CP	LE	3	3	2	23	21S	37E	675492	3593549*	2652	81		
CP 01185 POD4			LE		1	3	14	21S	37E	674633	3594610	2658	70		
CP 01185 POD1			LE		1	3	14	21S	37E	674598	3594689	2659	70		
CP 00235 POD6		CP	LE	2	1	1	23	21S	37E	674881	3594137*	2676	85	65	20
CP 01185 POD3			LE		1	3	14	21S	37E	674592	3594620	2691	70		
CP 01574 POD1		CP	LE	2	4	4	15	21S	37E	674563	3594599	2726	68	57	11
CP 00235 POD5		CP	LE	1	4	1	23	21S	37E	675090	3593742*	2770	90	70	20
CP 00235 POD3		CP	LE	1	1	1	23	21S	37E	674681	3594137*	2842	90	61	29
CP 00678			ED			3	17	21S	38E	679802	3594732*	2899	125	37	88
CP 00235 POD9		CP	LE	3	4	1	23	21S	37E	675090	3593542*	2914	94	58	36
CP 00139 POD1		CP	LE	2	4	2	19	21S	38E	679312	3593818*	2922	75		
CP 00197	O		LE	1	4	1	01	21S	37E	676611	3598599*	2948	85		

1 mile = 1610 meters

EXHIBIT H

CP 00197 POD1	CP	LE	1	4	1	01	21S	37E	676611	3598599*	2948	85		
CP 00235 POD7	CP	LE	3	1	1	23	21S	37E	674681	3593937*	2955	85	65	20
CP 00705 POD1	CP	ED	1	4	3	17	21S	38E	679903	3594637*	3026	160		
CP 00235 POD4	CP	LE	1	3	1	23	21S	37E	674688	3593735*	3074	100	80	20

Average Depth to Water: **61 feet**

Minimum Depth: **37 feet**

Maximum Depth: **80 feet**

Record Count: 32

UTMNAD83 Radius Search (in meters):

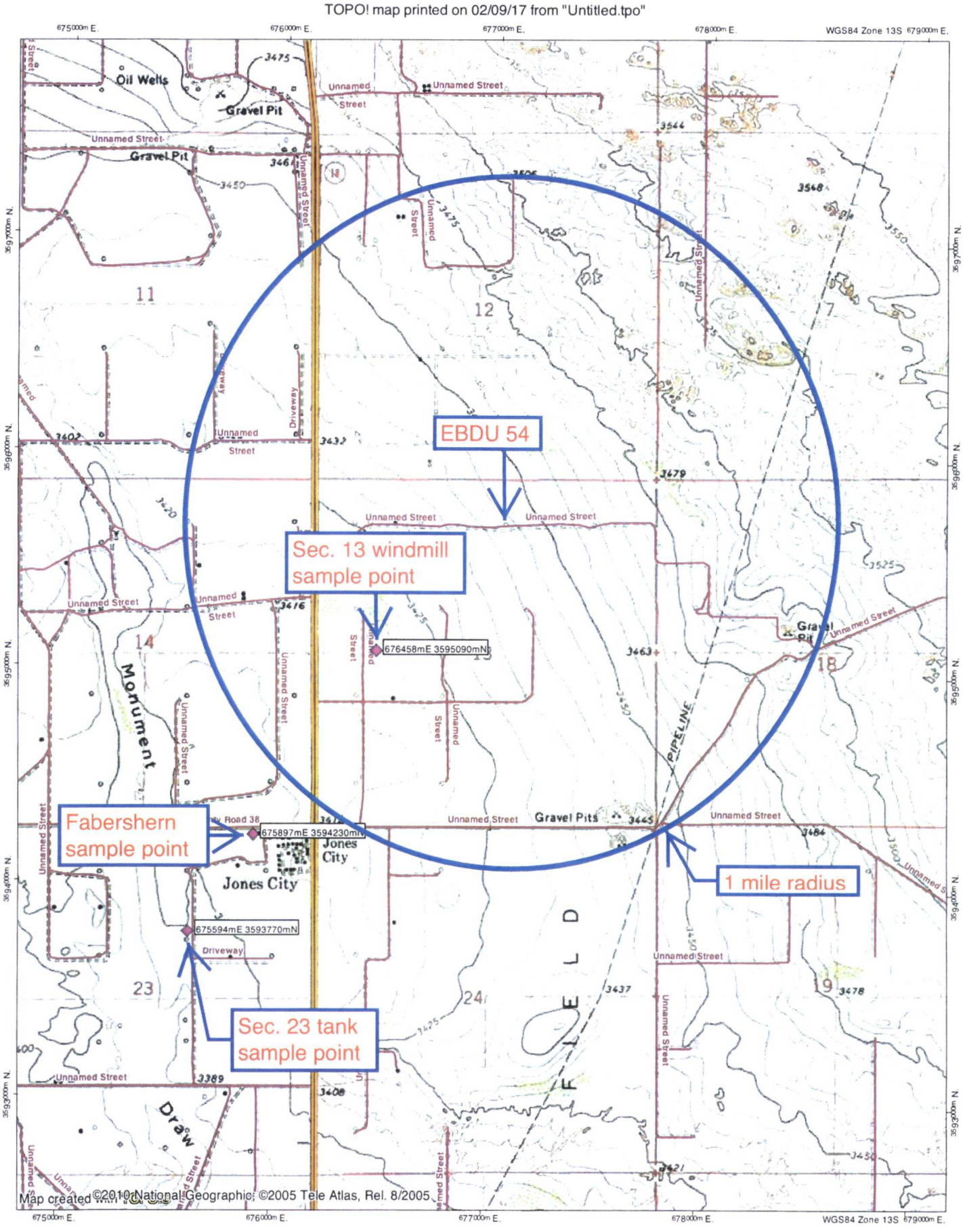
Easting (X): 677064 **Northing (Y):** 3595686 **Radius:** 3220

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

2/4/17 4:27 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

EXHIBIT H


TOPO! map printed on 02/09/17 from "Untitled.tpo"
675000m E.
676000m E.
677000m E.
678000m E.
WGS84 Zone 13S 679000m E.
3597000m N.
3596000m N.
3595000m N.
3594000m N.
3593000m N.
EBDU 54
Sec. 13 windmill sample point
676458mE 3595090mN
Fabershern sample point
675897mE 3594230mN
675594mE 3593770mN
Sec. 23 tank sample point
1 mile radius
Jones City
Gravel Pits
Oil Wells
Gravel Pit
Monument
Draw
PIPELINE
FIELD
Unnamed Street
Driveway
Road 38
Map created with TOPO!
©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005
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
EXHIBIT H
TN MN
6.5°
02/09/17

Analytical Report
Lab Order **1701429**
Date Reported: **1/18/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West
Project: Apache EBDU
Lab ID: 1701429-001
Matrix: AQUEOUS
Client Sample ID: Section 23 Tank
Collection Date: 1/8/2017 3:17:00 PM
Received Date: 1/11/2017 2:02:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LGT**
Chloride	330	25	*	mg/L	50	1/17/2017 9:20:25 PM
EPA METHOD 1664A						Analyst: **tnc**
N-Hexane Extractable Material	ND	11.4		mg/L	1	1/11/2017 3:30:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	1200	20.0	*	mg/L	1	1/13/2017 6:52:00 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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West
Project: Apache EBDU
Lab ID: 1701429-002
Matrix: AQUEOUS
Client Sample ID: Fabershern Domestic
Collection Date: 1/9/2017 9:35:00 AM
Received Date: 1/11/2017 2:02:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LGT**
Chloride	1200	50	*	mg/L	100	1/17/2017 9:32:50 PM
EPA METHOD 1664A						Analyst: **tnc**
N-Hexane Extractable Material	ND	12.0		mg/L	1	1/11/2017 3:30:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	2840	20.0	*	mg/L	1	1/13/2017 6:52:00 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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West
Project: Apache EBDU
Lab ID: 1701429-003 **Matrix:** AQUEOUS

Client Sample ID: Section 13 WM
Collection Date: 1/9/2017 11:36:00 AM
Received Date: 1/11/2017 2:02:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LGT**
Chloride	380	10	*	mg/L	20	1/11/2017 11:26:06 PM
EPA METHOD 1664A						Analyst: **tnc**
N-Hexane Extractable Material	ND	9.72		mg/L	1	1/11/2017 3:30:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	1060	20.0	*	mg/L	1	1/13/2017 6:52:00 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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1701429**

18-Jan-17

Client: Permits West

Project: Apache EBDU

Sample ID **MB-29634**	SampType: **MBLK**	TestCode: **EPA Method 1664A**
Client ID: **PBW**	Batch ID: **29634**	RunNo: **39981**
Prep Date: **1/11/2017**	Analysis Date: **1/11/2017**	SeqNo: **1252885** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10.0								
Silica Gel Treated N-Hexane Extrac	ND	10.0								

Sample ID **LCS-29634**	SampType: **LCS**	TestCode: **EPA Method 1664A**
Client ID: **LCSW**	Batch ID: **29634**	RunNo: **39981**
Prep Date: **1/11/2017**	Analysis Date: **1/11/2017**	SeqNo: **1252886** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	35.4	10.0	40.00	0	88.5	78	114			
Silica Gel Treated N-Hexane Extrac	18.0	10.0	20.00	0	90.0	64	132			

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

EXHIBIT H

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1701429**

18-Jan-17

Client: Permits West

Project: Apache EBDU

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R39975**	RunNo: **39975**
Prep Date:	Analysis Date: **1/11/2017**	SeqNo: **1252702** 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: **R39975**	RunNo: **39975**
Prep Date:	Analysis Date: **1/11/2017**	SeqNo: **1252703** 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	91.3	90	110			

Sample ID **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R40074**	RunNo: **40074**
Prep Date:	Analysis Date: **1/17/2017**	SeqNo: **1256674** 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: **R40074**	RunNo: **40074**
Prep Date:	Analysis Date: **1/17/2017**	SeqNo: **1256675** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.2	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

EXHIBIT H

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1701429**

18-Jan-17

Client: Permits West

Project: Apache EBDU

Sample ID	MB-29665	SampType:	MBLK		TestCode:	SM2540C MOD: Total Dissolved Solids				
Client ID:	PBW	Batch ID:	29665		RunNo:	40008				
Prep Date:	1/12/2017	Analysis Date:	1/13/2017		SeqNo:	1253638	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-29665	SampType:	LCS		TestCode:	SM2540C MOD: Total Dissolved Solids				
Client ID:	LCSW	Batch ID:	29665		RunNo:	40008				
Prep Date:	1/12/2017	Analysis Date:	1/13/2017		SeqNo:	1253639	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

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

EXHIBIT H

Apache

Form C-108
Affirmative Statement
Apache Corporation
East Blinebry Drinkard Unit
Section 13, T-21-S, R-37-E
Lea County, New Mexico

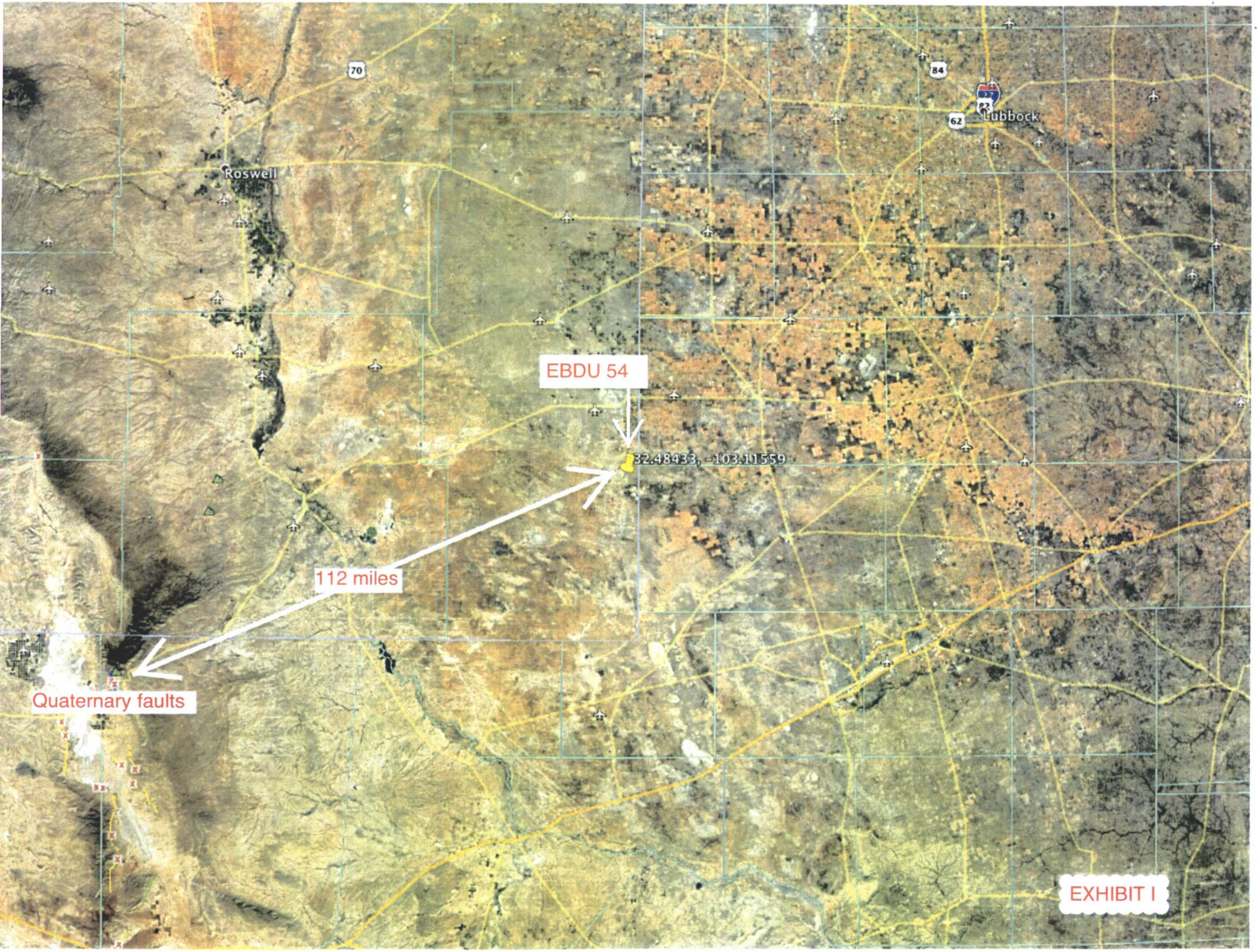
The extractions from the seismic data show no evidence of faulting at (or above) the Glorieta in this area and surface mapping from the USGS confirms that no faults are known at the surface. In addition, we have no empirical evidence that our injection operations at EBDU are affected by faulting at the 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.

Ph.D

Dr. Mark Pasley
Geological Advisor

20 February 2017
Date

EXHIBIT I


70
84
62
Roswell
Lubbock
EBDU 54
32.48433, -103.11559
112 miles
Quaternary faults
EXHIBIT I

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
December 25, 2016
and ending with the issue dated
December 25, 2016.

LEGAL NOTICE
December 25, 2016

Apache Corporation is applying to convert the East Blinebry Drinkard Unit 54 oil well to a water injection well. The well is at 660 FNL & 2310 FEL, Sec. 13, T. 21 S., R. 37 E., Lea County, NM. This is 4 miles northeast of Eunice, NM. It will inject water into the Blinebry (maximum injection pressure = 2,100 psi) from 5,600' to 6,100'. 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.
#31445

Daniel Russell
Publisher

Sworn and subscribed to before me this
25th day of December 2016.

Gussie Black
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

00186366

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

February 20, 2017

N. B. Bunin Properties LP
1496 Guadalupe Bend
Boerne TX 78006

Apache Corporation is applying (see attached application) to convert its East Blinebry Drinkard Unit 54 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 54 (fee lease) TD = 6,300' MD
Proposed Injection Zone: Blinebry from 5,780' to 6,100'
Where: 660' FNL & 2310' FEL Sec. 13, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 4 air miles NE of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,

Brian Wood

EXHIBIT 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:

APC-EBDU 54 > Y27
BLM
620 E. Grand St.
Carlsbad CA 88220

9590 9402 2392 6249 8243 84

2. Article Number (Transfer from service label)

7016 1370 0000 0859 6645

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Address

B. Received by (Printed Name) [illegible] C. Date of Delive 2/24/17

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restri Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmatio
- ☐ Signature Confirmatio Restricted Delivery

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

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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:

BP American Prodctuion Co
PO Box 3092
Houston TX 77253-3092
APC EBDU 54

9590 9402 1840 6104 1567 23

2. Article Number (Transfer from service label)

7016 1370 0000 0859 6119

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Deliv

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restr. Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmatio
- ☐ Signature Confirmatio Restricted Delivery

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

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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:

N B Bunin Properties LP
1496 Guadalupe Bend
Boerne TX 78006
APC EBDU 54

9590 9402 1840 6104 1568 39

2. Article Number (Transfer from service label)

7016 1370 0000 0859 6218

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☑ Agent ☐ Address

B. Received by (Printed Name) Michael J. Boerne C. Date of Deliv 02/23/17

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Restricted Delivery
- ☐ Priority Mail Express®
- ☑ Registered Mail™
- ☐ Registered Mail Restri Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmatio
- ☐ Signature Confirmatio Restricted Delivery

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

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Chevron USA
6301 Deauville
Midland TX 79706-2964
APC EBDU 54

9590 9402 1840 6104 1567 30

2. Article Number *(Transfer from service label)*

7016 1370 0000 0859 6126

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addres

B. Received by *(Printed Name)* Maria Brown | C. Date of Deliv 2-24-1

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

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

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

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:

Conoco Phillips Co
PO Box 7500
Bartlesville OK 74005-7500
APC EBDU 54

9590 9402 1840 6104 1567 47

2. Article Number *(Transfer from service label)*

7016 1370 0000 0859 6133

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Address

B. Received by *(Printed Name)* | C. Date of Deliv

FEB 24 2017

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

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
ail
ail Restricted Delivery

☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restri Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmatio
☐ Signature Confirmatio Restricted Delivery

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

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:

Conoco Phillips Co
550 Westlake Park Blvd
Houston TX 77079
APC EBDU 54

9590 9402 1840 6104 1567 54

2. Article Number *(Transfer from service label)*

7016 1370 0000 0859 6140

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Address

B. Received by *(Printed Name)* | C. Date of Deliv

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

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
ail Restricted Delivery
))

☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restri Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmatio
☐ Signature Confirmatio Restricted Delivery

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

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:

Elliott Industries CO LP
PO Box 1328
Santa Fe NM 87504-1328
APC EBDU 54

9590 9402 1840 6104 1567 78

2. Article Number *(Transfer from service label)*

7016 1370 0000 0859 6164

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Kathleen A Elliott C. Date of Delivery

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

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

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

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Edna I. Hall
2668 Grant Ave, STE 104
Ogden UT 84401
APC EBDU 54

9590 9402 1840 6104 1568 15

2. Article Number *(Transfer from service label)*

7016 1370 0000 0859 6201

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Address

B. Received by *(Printed Name)* C. Date of Delive

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

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

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

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:

Elliott Hall Co UT LP
PO Box 1231
Ogden UT 84402-1231
APC EBDU 54

9590 9402 1840 6104 1567 61

2. Article Number *(Transfer from service label)*

7016 1370 0000 0859 6157

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☒ Agent ☐ Address

B. Received by *(Printed Name)* C. Date of Deliv 02 / 21 / 2

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

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

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

C-108 Review Checklist: Received 3/3/2017 Add. Request: ________ Reply Date: ________ Suspended: ________ [Ver 15]

ORDER TYPE: (WFX) / PMX / SWD Number: ________ Order Date: ________ Legacy Permits/Orders: R-12354, R-12355, IPI-292

Well No. 54 Well Name(s): EBDU

API : 30-025-06567 Spud Date: March, 1955 New or Old: O (UIC Class II Primacy 03/07/1982)

Footages 660FNL 2310FEL Lot ____ or Unit B Sec 13 Tsp 21S Rge 37E County Lea

General Location: 2.5 miles S/Eunice Pool: Blinebry Oil & Gas (Oil) Pool No.: 6660

BLM 100K Map: JAL Operator: Apache Corp OGRID: 873 Contact: Brian Wood, agent

COMPLIANCE RULE 5.9: Total Wells: 2970 Inactive: 3 Fincl Assur: OK Compl. Order? N/A IS 5.9 OK? Y Date: 3-24-2017

WELL FILE REVIEWED ○ Current Status: Producer

WELL DIAGRAMS: NEW: Proposed ○ or **RE-ENTER:** Before Conv. ○ After Conv. ✓ 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	15/12 3/4	126		200/125	Surface
Planned__or Existing __Interm/Prod	12 1/4/9 5/8	3054		~~1200~~ 2000	Surface/estimate
Planned__or Existing __Interm/Prod	8 3/4/7"	6295		~~800~~ 300	2095/TS
Planned__or Existing __ Prod/Liner					
Planned__or Existing __ Liner					
Planned__or Existing __ OH / PERF	5780/6100		Inj Length		

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		Blinebry	5820
Confining Unit: Litho. Struc. Por.		Gl	5356
Proposed Inj Interval TOP:			
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 6310 PBTD 6295

NEW TD ________ NEW PBTD ________

NEW Open Hole ○ or NEW Perfs ✓ X IPI 292

Tubing Size 2 3/4 in. Inter Coated? Y

Proposed Packer Depth 5680 ft

Min. Packer Depth 5730 (100-ft limit)

Proposed Max. Surface Press. ________ psi

Admin. Inj. Press. 2100 (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 60 **HYDRO AFFIRM STATEMENT By Qualified Person** ✓

NMOSE Basin: Capitan **CAPITAN REEF:** thru adj (NA) **No. Wells within 1-Mile Radius?** [illegible] FW Analysis Y

Disposal Fluid: Formation Source(s) Produced H_2O Analysis? Y On Lease ✓ Operator Only ○ or Commercial ○

Disposal Int: 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-Mile Radius Pool Map ○

AOR Wells: 1/2-M Radius Map? Y Well List? Y Total No. Wells Penetrating Interval: 25 Horizontals? N/A

Penetrating Wells: No. Active Wells 14 Num Repairs? ____ on which well(s)? ________ Diagrams? ____

Penetrating Wells: No. P&A Wells 4 Num Repairs? ____ on which well(s)? ________ Diagrams? ____

NOTICE: Newspaper Date 12/25/2016 Mineral Owner NBBurin Surface Owner BLM N. Date 2/24/2017

RULE 26.7(A): Identified Tracts? ______ Affected Persons: ConocoPhillips, Elliott Hall Co, Elliott Industries, N. Date 2/25/2017

Order Conditions: Issues: ________

Add Order Cond: ________