

RECEIVED: 9/17/2017	REVIEWER: MAM	TYPE: WFX	APP NO: PMAM1710847578
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**

- Geological & Engineering Bureau -  
1220 South St. Francis Drive, Santa Fe, NM 87505

**ADMINISTRATIVE APPLICATION CHECKLIST**

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

**Applicant:** Apache Corporation**OGRID Number:** 873**Well Name:** West Blinbry Drinkard Unit 87**API:** 30-025-06643**Pool:** Eunice; BLI-TU-DR, North**Pool Code:** 22900

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

**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**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☒ Notice Complete☒ Application Content Complete

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

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

Brian Wood

Print or Type Name

Signature

3-29-17

Date

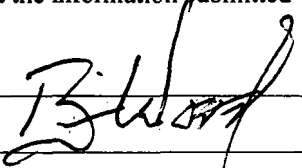
505 466-8120

Phone Number

brian@permitswest.com

e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: XXX Secondary Recovery \_\_\_\_\_ Pressure Maintenance \_\_\_\_\_ Disposal \_\_\_\_\_ Storage \_\_\_\_\_  
Application qualifies for administrative approval? \_\_\_\_\_ Yes \_\_\_\_\_ No
- II. OPERATOR: APACHE CORPORATION  
ADDRESS: 303 VETERANS AIRPARK LANE, SUITE 3000, MIDLAND, TX 79705  
CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? \_\_\_\_\_ Yes XXX No \_\_\_\_\_  
If yes, give the Division order number authorizing the project: R-12981
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.  
**WEST BLINEBRY DRINKARD UNIT 87**
- VII. Attach data on the proposed operation, including: **30-025-06643**
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: MAR. 29, 2017  
E-MAIL ADDRESS: brian@permitswest.com
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

### III. WELL DATA

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

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

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

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

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

### XIV. PROOF OF NOTICE

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

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

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

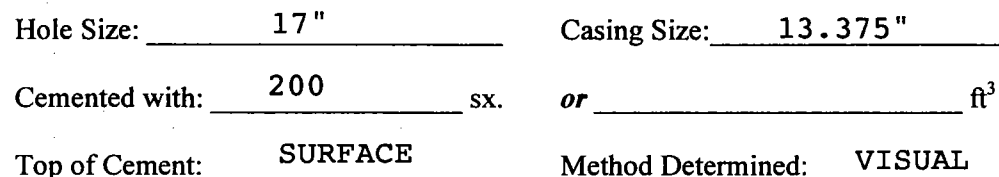
**NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.**

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

WELL LOCATION:	660' FSL & 1980' FWL	N	17	21 S	37 E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

## Surface Casing



Hole Size: 11.75" Casing Size: 8.625"  
Cemented with: 1500 sx. or \_\_\_\_\_ ft<sup>3</sup>  
Top of Cement: unknown Method Determined: CBL will  
be run

Hole Size: 7.875" Casing Size: 5.5"  
Cemented with: 300 sx. *or*                      ft<sup>3</sup>  
Top of Cement: 5130' Method Determined: estimated  
Total Depth: 6659' now & 6809' proposed CBL will be run

6482'                      feet to                      6753'

(Perforated or Open Hole; indicate which)

XXXXXXXXXXXX



INJECTION WELL DATA SHEETTubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COATType of Packer: LOCK SET INJECTIONPacker Setting Depth: ≈6432'

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

Additional Data

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

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

2. Name of the Injection Formation: DRINKARD

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

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

BLINEBRY 5662' - 5918' WILL BE ISOLATED BEHIND A CEMENTED LINER

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

OVER: YATES (2600'), 7 RIVERS (2880'), QUEEN (3410'), GRAYBURG (3660'),  
SAN ANDRES (3990'), BLINEBRY (5605'), TUBB (6175')

UNDER: ABO (6754')

APACHE CORPORATION  
WEST BLINEBRY DRINKARD UNIT 87  
660' FSL & 1980' FWL  
SEC. 17, T. 21 S., R. 37 E., LEA COUNTY, NM

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I. Goal is to deepen a 6659' Blinebry oil well to 6809', run a liner, and convert it to a Drinkard water injection well to increase oil recovery. The well will inject (6482' - 6753') into the Drinkard, 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 West Blinebry Drinkard Unit (Unit Number 300341, Case Numbers 14125 and 14126, both Order Number R-12981) that was established in 2008 by Apache. There have been 15 subsequent WFX approvals. This is an active water flood. Forty-one water injectors are active or new in the Unit.

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

III. A. (1) Lease: fee ("Tract 14", aka "Percy Hardy")  
Lease Size: 40 acres (see Exhibit A for maps and C-102)  
Closest Lease Line: 660'  
Lease Area: SESW of Section 17, T. 21 S., R. 37 E.  
Unit Size: 2,480 acres  
Closest Unit Line: 660'  
Unit Area: T. 21 S., R. 37 E.  
Section 4: Lot 15, S2SW4, & SE4  
Section 8: E2, NENW, & E2SW  
Sections 9 & 16: all  
Section 17: E2 & E2SW4  
Section 21: E2NE4

A. (2) Surface casing (13.375", 48#) is set at 194' in a 17" hole. Cement (200 sacks) circulated to the surface.

APACHE CORPORATION  
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660' FSL & 1980' FWL  
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Intermediate casing (8.625", 28#) is set at 2842' in an 11.75" hole. It was cemented with 1500 sacks. TOC is unknown.

Production casing (5.5", 15.5#) is set at 6599' in a 7.875" hole. It was cemented to 5130' (estimated) with 300 sacks.

Well will be deepened 150' to 6809' and a 4.5" 11.6# FJ liner run from the new TD to GL. Liner will be cemented in one stage to surface with 252 sacks TXI light. Excess = 150%. PBTD = 6794'.

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

- A. (3) Tubing specifications are 2-3/8", J-55, 4.7#, and internally plastic coated. Setting depth will be  $\approx$ 6432'. (Disposal interval will be from 6482' to 6753'.)
- A. (4) A lock set injection packer will be set at  $\approx$ 6432' ( $\approx$ 50' above the highest proposed perforation of 6482').
- B. (1) Injection zone will be the Drinkard carbonate. The zone is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool. Estimated fracture gradient is  $\approx$ 0.56 psi per foot.
- B. (2) Injection interval will be from 6482' to 6753' in a cased hole. See attached C-108 well profile for more perforation information.
- B. (3) Well was originally drilled in 1949 as a Drinkard oil well. Exhibit B shows current well bore.
- B. (4) It will be perforated from 6482' to 6753' with 4 shots per foot, 90° phasing, and  $\approx$ 0.40" shot diameter.
- B. (5) Next higher oil or gas zone in the area of review is the Tubb. Its bottom is at 6481'. Tubb is in the Unit and same pool (22900).

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 660' FSL & 1980' FWL  
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Next lower oil or gas zone in the area of review is the Wantz; Abo (code 62700). Its top is at 6754'.

IV. This is not a horizontal or vertical expansion of an existing injection project. The case file for the Unit approval (R-12981) includes a discussion of the water flood. There have been 15 subsequent WFX approvals. Closest unit boundaries are 660' south and west.

V. Exhibit C shows all 40 existing wells (34 oil wells + 4 P & A wells + 2 water wells) within a half-mile radius, regardless of depth. Exhibit D shows all 649 existing wells (485 oil or gas producing wells + 85 P&A wells + 57 injection or disposal wells + 22 water wells) within a two-mile radius, regardless of depth.

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

Aliquot Parts in Area of Review (T21S, R37e)	Lessor	Lease	Lessee(s) of Record	Drinkard operator
SWNW Sec. 17	fee	Mittie Weatherly	Chevron USA	Chevron USA
SENW Sec. 17	fee	Mittie Weatherly	Chevron USA	none now, previously Chevron's 30-025-06635
SWNE, NWSE, & NESW Sec. 17	fee	W W Weatherly	Apache	Apache
NESE Sec. 17	BLM	NMLC-032096A	Apache & Chevron USA	Apache
W2SW4 Sec. 17	BLM	NMNM-125794	Apache, Chevron USA, & ConocoPhillips	Upland
SESW Sec. 17	fee	Percy Hardy	Apache	Apache
S2SE4 Sec. 17	fee	Hardy Blinebry	Apache	Apache

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NESE Sec. 18	fee	H T Mattern NCT C	Chevron USA	none now, previously Chevron's 30-025- 25025
SESE Sec. 18	fee	L G Warlick	Chevron Mid.	none now, previously Chevron's 30-025- 23953
NENE Sec. 19	fee	L G Warlick	Chevron Mid.	Chevron Mid.
NENE Sec. 20	fee	A M York	Chevron USA	Chevron USA
NWNE & NENW Sec. 20	fee	W E Lee	Upland	Upland
NWNW Sec. 20	BLM	NMLC- 032591B	Sheridan	N/A
SWNW Sec. 20	fee	J G Randle	Apache	Apache
SENW Sec. 20	fee	J G Randle A	Chevron Mid.	Chevron Mid.
SWNE Sec. 20	fee	J G Randle	Chevron Mid.	Chevron Mid.

VI. Forty existing wells are within a half-mile radius (Exhibit G). Twenty of the wells penetrated the Drinkard. Eighteen of the penetrators are oil wells and two are P&A. A table abstracting the well construction details and histories of the penetrators is in Exhibit H. Diagrams of the P&A wells are also in Exhibit H.

- VII.
1. Average injection rate will be  $\approx$ 2,500 bwpd.  
Maximum injection rate will be  $\approx$ 3,000 bwpd.
  2. System will be closed. The well will be tied into the existing unit pipeline system. It consists of a branched injection system with centrifugal injection pumps.
  3. Average injection pressure will be  $\approx$ 1100 psi. Maximum injection pressure will be 1120 psi (see item (13) of Order R-12981).
  4. Water source will be water pumped from two existing  $\approx$ 4,000' deep San Andres water supply wells, plus produced water from Blinebry, Tubb, and Drinkard zones. The source water and produced water are collected in separate skim tanks. The two water streams (source and produced) are commingled in a tank before being piped to the injection wells. A

comparison of nearby analyses and San Andres follows. No compatibility problems have reported from the 45,532,122 barrels that have been injected in the Unit to date.

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

5. There are 124 active or new oil wells in the Unit. Project goal is 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 154 active or new Drinkard injection wells in the state. The West Blinebry Drinkard Unit shares its east border with Apache's Northeast Drinkard Unit. Three other similar water floods (East Blinebry Drinkard Units, Central Drinkard Unit, and Warren Blinebry Unit) are within a mile of the West Blinebry Drinkard Unit. The Central Drinkard Unit has been under water flood since the 1960s.

Estimated formation depths are:

Quaternary = 0'  
Rustler = 1,250'  
Tansill = 2,490'  
Yates = 2,600'  
Seven Rivers = 2,880'  
Queen = 3,410'  
Grayburg = 3,660'  
San Andres = 3,990'  
Glorieta = 5,150'  
Paddock = 5,220'  
Blinebry = 5,605'  
Tubb = 6,175'  
Drinkard = 6,482'  
*Top proposed injection interval = 6,482'*  
Current TD = 6,659'  
*Bottom proposed injection interval = 6,753'*  
Abo = 6,754'  
Proposed TD = 6,809'

According to Office of the State Engineer records (Exhibit I), five fresh water wells are within a mile radius and two (Exhibit I) were sampled on March 12, 2017. Deepest water well within a mile radius is 167'. No existing underground drinking water source is below the injection interval within a mile radius. The Ogallala is >6 miles northeast.

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

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Produced water is currently being injected (199 wells) or disposed (9 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.

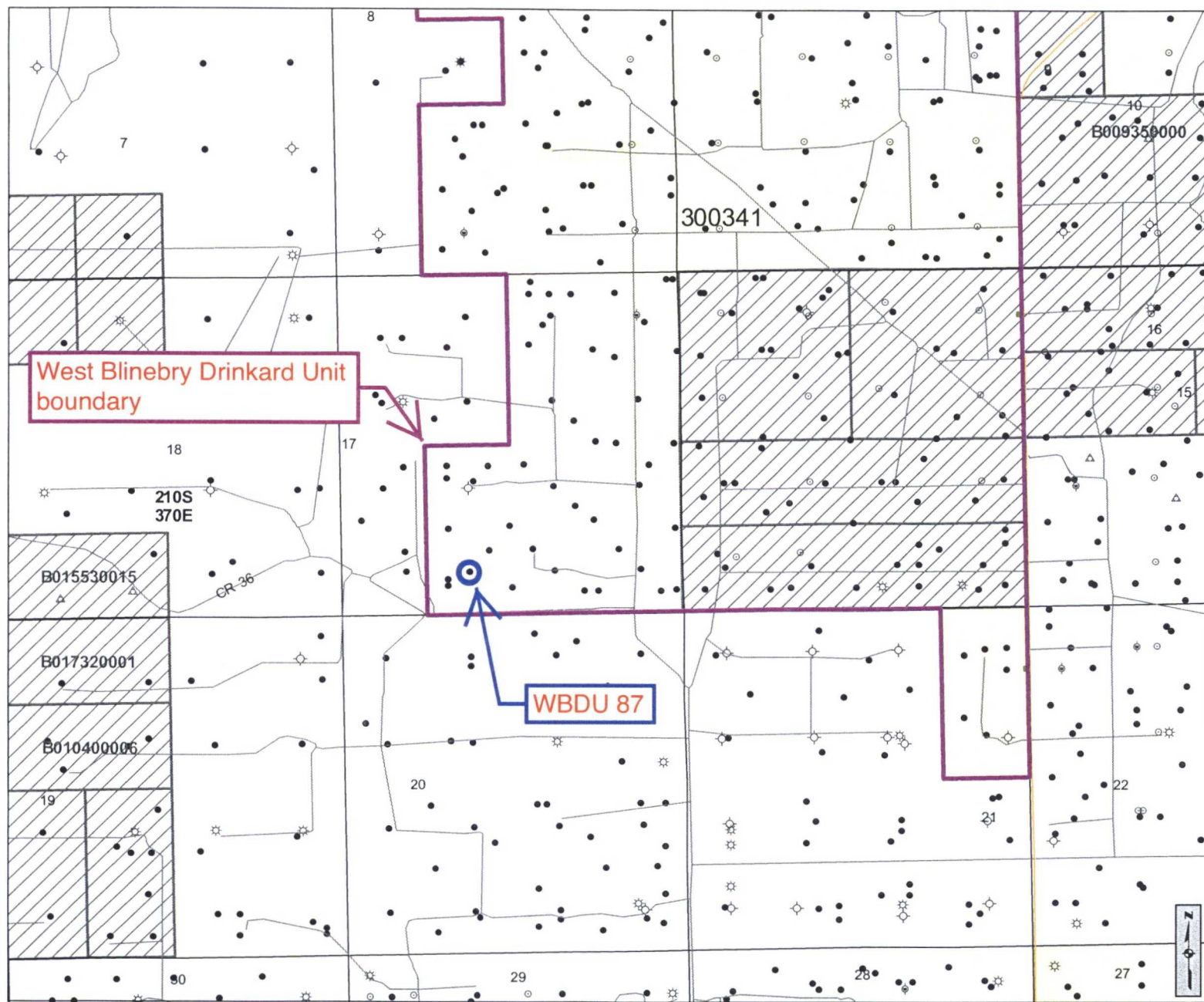
X. GR/CBL/CCL/CNL logs are planned from TD to GL.

XI. Five fresh water wells are within a mile. Analyses from two (CP 00895 & CP 01026 POD1) of the five wells are attached (Exhibit J).

XII. Apache is not aware of any geologic or engineering data that may indicate the injection interval is in hydrologic connection with any underground sources of water. Closest Quaternary faults are  $\approx 109$  miles southwest (Exhibit K). There are 155 Drinkard injection wells in New Mexico. Previously approved water flood expansions (WFX-) in the Unit include 854, 857, 913, 921, 922, 923, 924, 948, 952, 954, 955, 958, 959, 960, and 962.

XIII. A legal ad (see Exhibit L) was published on March 8, 2017. Notice (this application) has been sent (Exhibit M) to the surface owner (Chevron USA Inc.), offset Drinkard operators (Chevron, Upland), lessees (Chevron Midcontinent, Chevron USA, ConocoPhillips, Sheridan, Upland), and operating rights holders (Mitchell Brown Properties, ConocoPhillips Co., Sandridge, Six Aeches Co.).





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

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

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

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

Created On: 3/4/2017 2:23:31 PM

**EXHIBIT A**

### Cartographic Features

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

### Federal Minerals Ownership

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

### State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

### State Leases

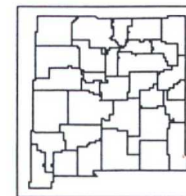
- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

### Oil and Gas Related Features

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

### NMOCD Oil and Gas Wells

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



www.nmstatelands.org

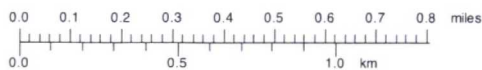
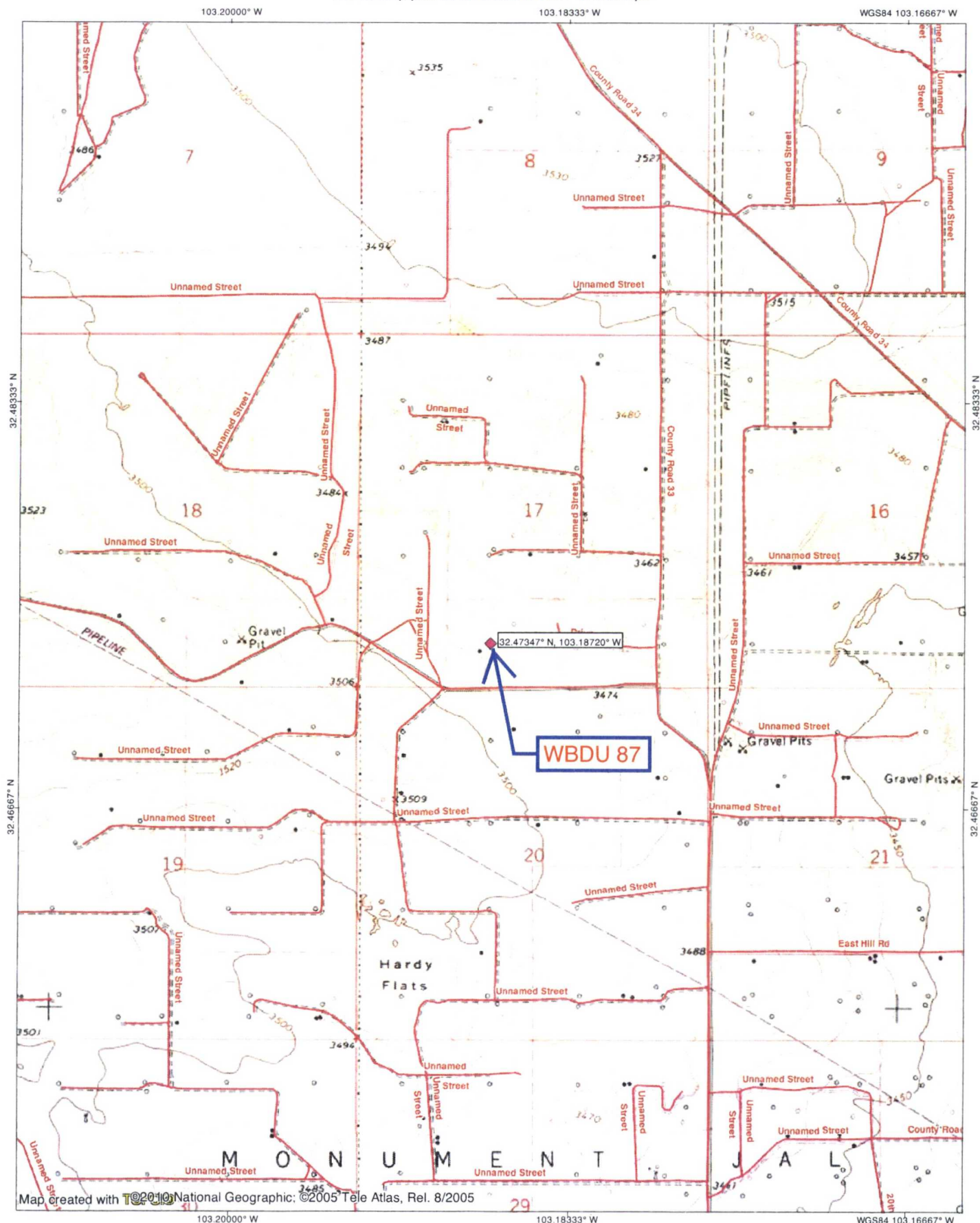


EXHIBIT A

TN 41 MN  
6.5°  
03/04/17

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

Date June 9, 1958

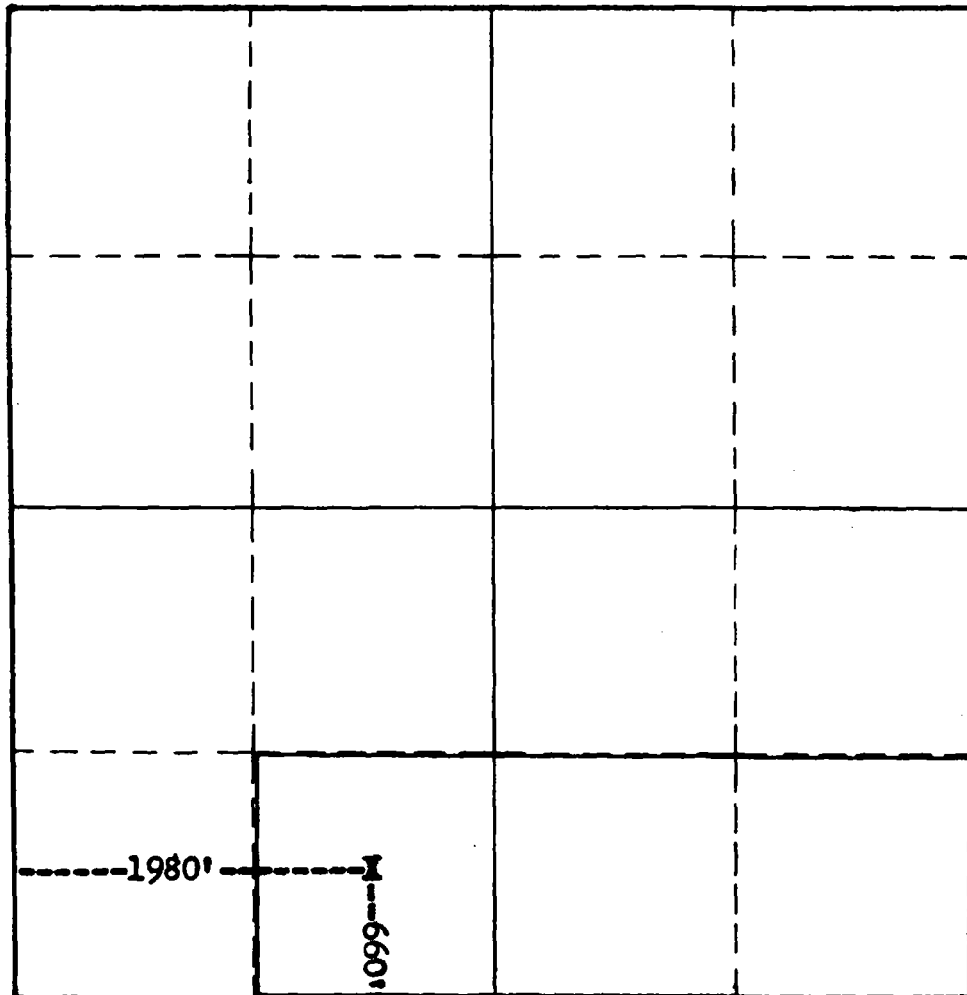
Operator Neville G. Penrose, Inc. Lease Hardy  
Well No. 1 Unit Letter N Section 17 Township 21S Range 37E NMPM  
Located 660 Feet From south Line, 1980 Feet From west Line  
County Lea G. L. Elevation \_\_\_\_\_ Dedicated Acreage 1.20 Acres  
Name of Producing Formation Blinberry Gas Pool Drinkard

1. Is the Operator the only owner\* in the dedicated acreage outlined on the plat below?  
Yes \_\_\_\_\_ No X.
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes X No \_\_\_\_\_. If answer is "yes," Type of Consolidation joint venture
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner

Land Description

Section B



This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

Neville G. Penrose, Inc.  
(Operator)

Glenn B. Price  
(Representative)

Box 988  
Eunice, New Mexico  
Address

This is to certify that the well location shown on the plat in Section B 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 knowledge and belief.

Date Surveyed \_\_\_\_\_

Registered Professional  
Engineer and/or Land Surveyor.

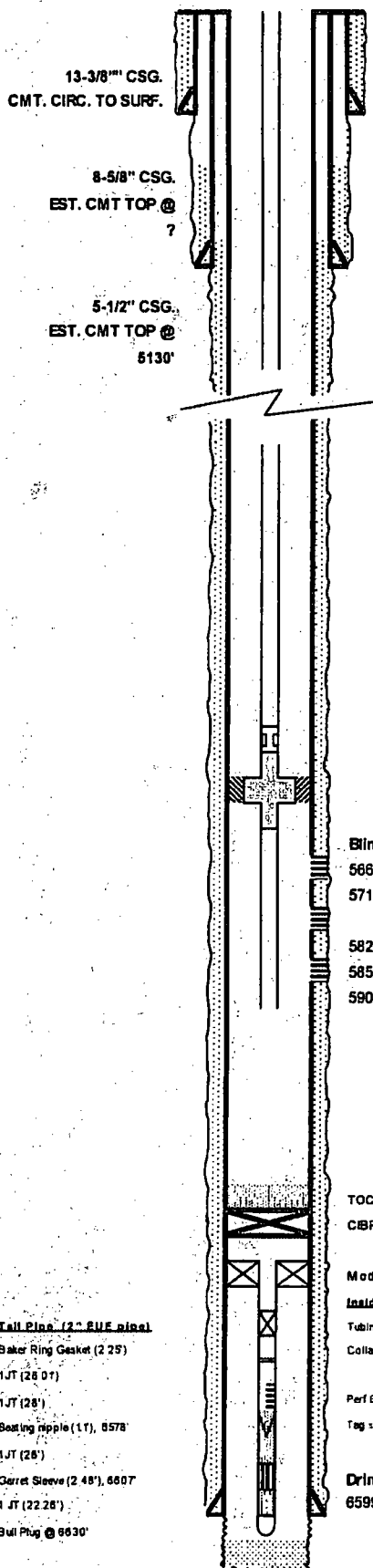
Certificate No.

EXHIBIT A



**Apache Corporation**  
**WBDU #87 (Hardy Blinebry Unit #3)**  
**WELL DIAGRAM (CURRENT CONFIGURATION)**

**Apache**



<b>WELL NAME:</b> WBDU #87 (Hardy Blinebry Unit #3)		<b>API:</b> 30-025-06643	
<b>LOCATION:</b> 860' FSL & 1980' FwL. Unit C SE-SW, Sec 17, T-21S, R-37E		<b>COUNTY:</b> Lea Co., NM	
<b>SPUD/TD DATE:</b> 11/23/1949 - 1/4/1950		<b>COMP. DATE:</b> 1/8/1950	
<b>PREPARED BY:</b> Kris Hasselbach		<b>DIAGRAM DATE:</b> 12/19/2016	
<b>TD (ft):</b> 6659'	<b>KB Elev. (ft):</b> 3499'	<b>KB to Ground (ft):</b> 9'	
<b>PBTD (ft):</b> 8443'	<b>Ground Elev. (ft):</b> 3490'		
<b>CASING/TUBING</b>	<b>SIZE (IN)</b>	<b>WEIGHT (LB/FT)</b>	<b>GRADE</b>
Surface Casing	13-3/8" (Cmt. w/ 200 sx, Circ.)	48.0	
Int Casing	8-5/8" (Cmt. w/ 1500sx, TOC @?)	28.0	
Prod. Casing	5-1/2" (Cmt. w/ 300sx, TOC @ 5130', est)	15.5	
Tubing	2-3/8"	4.7	J-55
			0.00 6,022

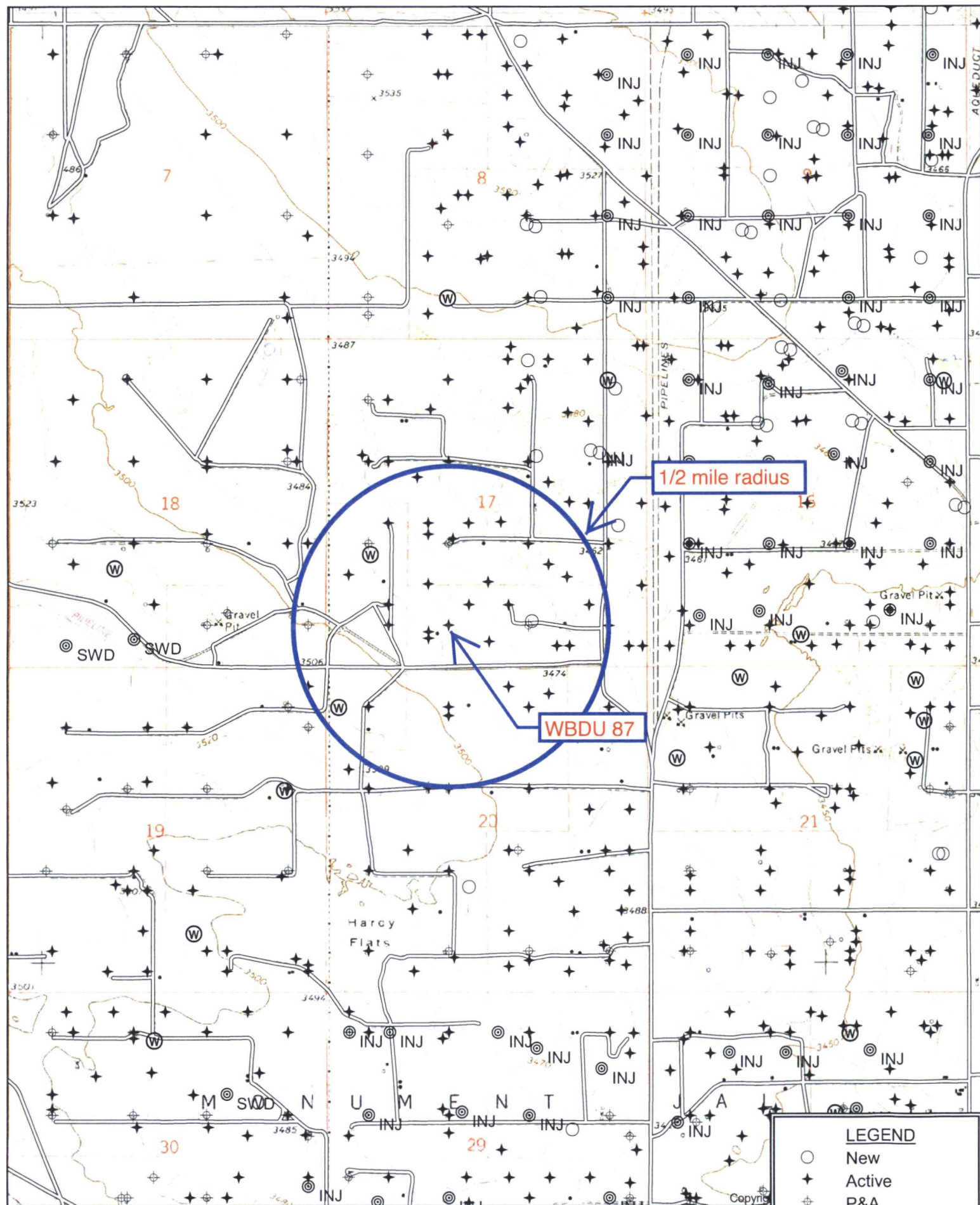
PRODUCTION TGB STRING			
ITEM	DESCRIPTION	LENGTH (FT)	Depth (FT)
1	193 JTS 2-3/8" 4.7 LB/FT J-55 TGB		
2	TAC		5616.00
3	SN		6022.00
4			
5			
6			
7			
8			
9			
10			

PRODUCTION ROD STRING			
ITEM	DESCRIPTION	LENGTH (FT)	Btm (FT)
1	113 JTS 7/8" RODS	2,825.00	
2	126 JTS 3/4" RODS	3,150.00	
3	BHP: 2" X 1-1/4" X 16' R-BC	16.00	
4			
5			
6			
7			
8			
9			
10			

SURFACE EQUIPMENT			
PUMPING UNIT SIZE:		MOTOR HP:	
PUMPING UNIT MAKE:		MOTOR MAKE:	
PERFORATIONS			
Form.	Intervals	FT	SPF
Bllinebry	5662'-78', 5710'-5722'	18,12	4
	5820,33,45,56,6574,88,5904,08,18'	9	1
DKRD (OH)	6599'-6659'		

**Notes:**  
1/8/1950: Acidize Drinkard OH w/ 1000 gals 15% HCl  
8/1958: Perf/Acidize Blinebry / 5662'-78' ( 500 gals. BDA + 2000 gals 15% HCl)  
Perf/Acidize Blinebry / 5710'-22' (500 gals BDA + 2000 gals 15% HCl)  
6/25/1958: Frac Blinebry 5662'-5722' w/ 8000 gals 7.5% HCl + 8000# 20/40: 16.7 BPM @2600#  
3/4/1983: Perf Blinebry 5820,33,45,56,65,74,88,5904,08,18 w/ 1 SPF. Acidize w/ 1500 gals 15%  
Frac Blinebry 5662'-5918' w/ 54,000# 20/40 @ 21 BPM, 4000 psi

**EXHIBIT B**



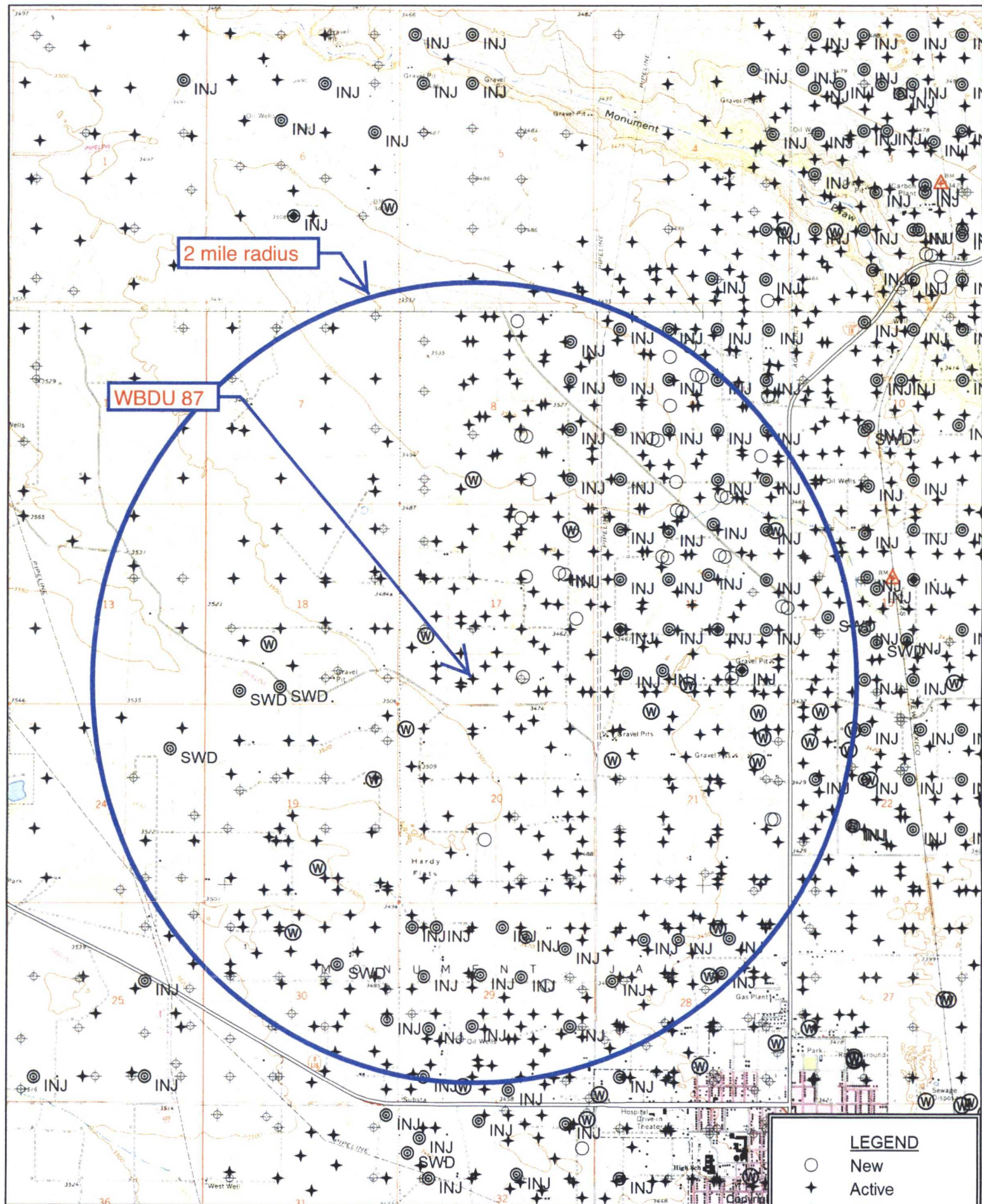
Quad: EUNICE  
Scale: 1 inch = 2,000 ft.

EXHIBIT C

LEGEND

- New
- ✦ Active
- ✦ P&A
- ⊙ INJ
- ⊙ SWD
- ⊙ W Water





WBDU 87

2 mile radius

**LEGEND**

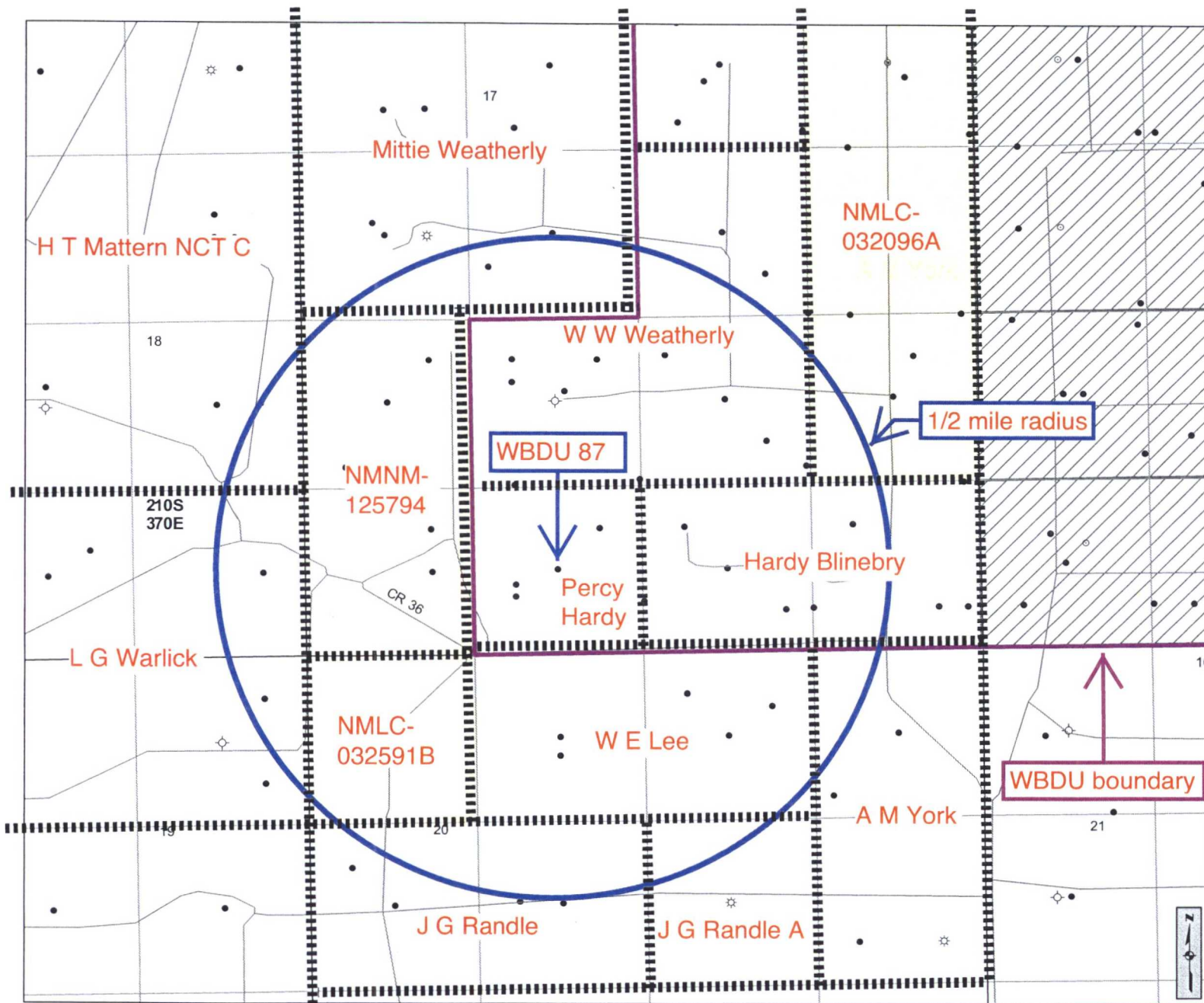
- New
- ★ Active
- ⊕ P&A
- ⊙ INJ
- ⊖ SWD
- Ⓜ Water

EXHIBIT D

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







### Cartographic Features

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

### Federal Minerals Ownership

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

### State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

### State Leases

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

### Oil and Gas Related Features

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

### NMOC Oil and Gas Wells

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

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

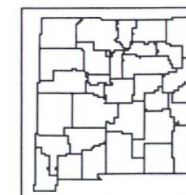
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Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

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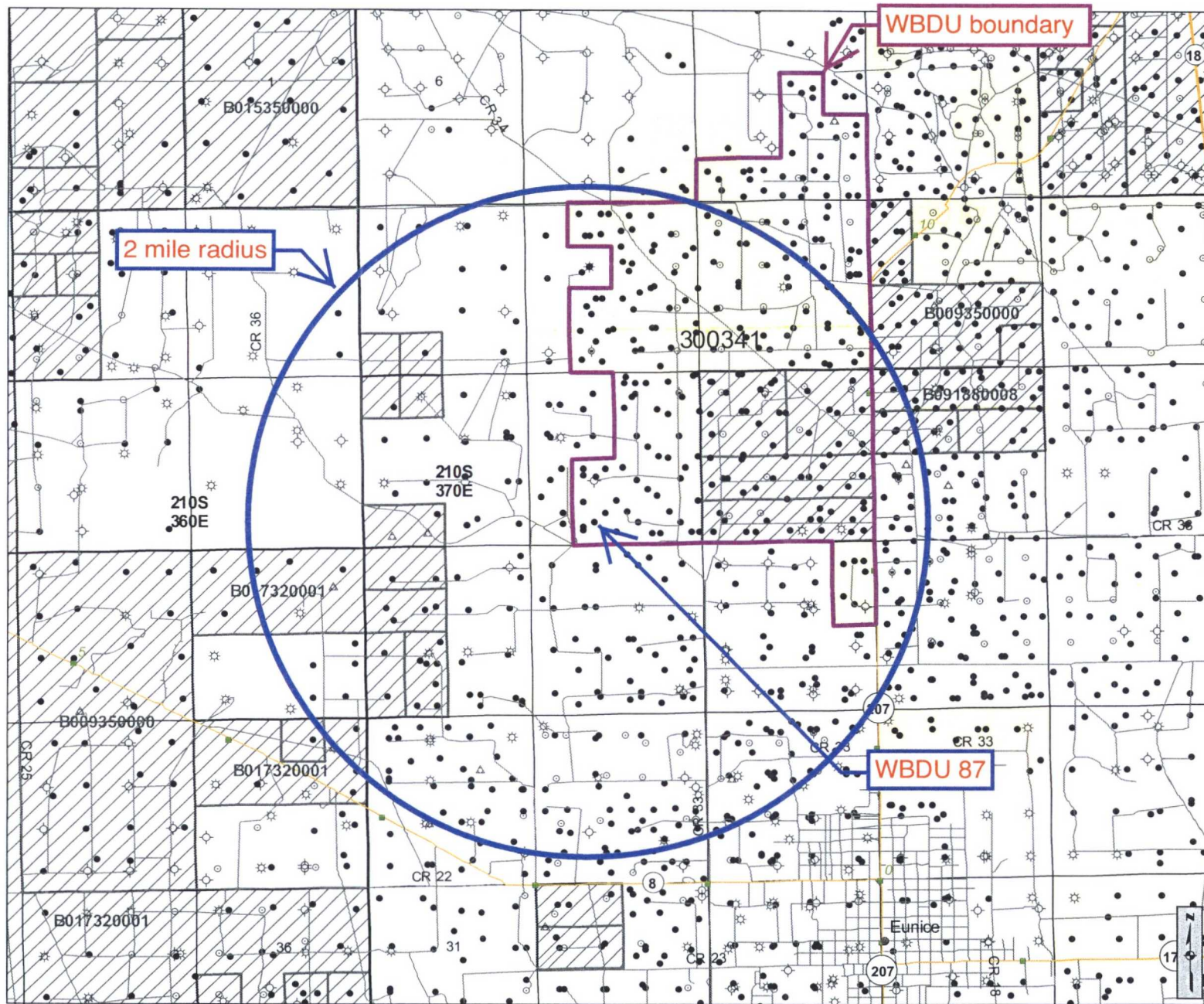
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EXHIBIT E



www.nmstatelands.org





### Cartographic Features

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

### Federal Minerals Ownership

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

### State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

### State Leases

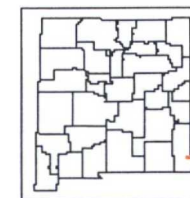
- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

### Oil and Gas Related Features

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

### NMOCD Oil and Gas Wells

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



[www.nmstatelands.org](http://www.nmstatelands.org)

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

0 0.2 0.4 0.8 1.2 1.6 Miles  
Universal Transverse Mercator Projection, Zone 13  
1983 North American Datum

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**EXHIBIT F**



API	WHO	UL	SECTION 21S-37E	TVD	WELL	WELL TYPE	POOL(S)	FEET FROM WBDU 87
3002539989	Apache	N	17	6970	WBDU 139	O	Eunice;Bli-Tu-Dr, N	409
3002538686	Apache	N	17	4525	Hardy 004	O	Penrose Skelly; Grayburg	445
3002523858	Apache	N	17	3887	Hardy 002	O	Penrose Skelly; Grayburg	467
3002539710	Apache	O	17	7219	WBDU 120	O	Eunice;Bli-Tu-Dr, N	674
3002539171	Apache	K	17	6962	WBDU 122	O	Eunice;Bli-Tu-Dr, N	783
3002539279	Apache	K	17	6900	WBDU 119	O	Eunice;Bli-Tu-Dr, N	929
3002506641	Upland	M	17	6690	Lockhart 002	O	Blincbry O&G (oil), Tubb O&G (oil), and Drinkard	995
3002523795	Apache	O	17	3850	Percy Hardy 004	O	Penrose Skelly; Grayburg	1017
3002527123	Upland	M	17	4202	A M Lockhart 003	O	Penrose Skelly; Grayburg	1049
3002506653	Apache	O	17	6650	WBDU 086	P&A	Eunice;Bli-Tu-Dr, N	1295
3002509923	Upland	C	20	3814	W E Lee 001	O	Penrose Skelly; Grayburg	1320
3002506644	Sun	K	17	3815	W W Weatherly 001	P&A	Penrose Skelly; Grayburg	1320
3002527199	Upland	B	20	4200	W E Lee 007	O	Penrose Skelly; Grayburg	1383
3002506647	Apache	K	17	6646	WBDU 074	O	Eunice;Bli-Tu-Dr, N	1400
3002509922	Upland	C	20	6674	W E Lee 003	O	Tubb O&G (oil) and Drinkard	1460
3002538376	Apache	K	17	4167	W W Weatherly 010	O	Penrose Skelly; Grayburg	1528
3002524178	Apache	K	17	3840	W W Weatherly 006	O	Penrose Skelly; Grayburg	1682
3002539988	Apache	K	17	6950	WBDU 136	O	Eunice;Bli-Tu-Dr, N	1703
3002536477	Apache	O	17	4350	Percy Hardy 009	O	Penrose Skelly; Grayburg	1789
3002506645	Apache	J	17	6637	WBDU 072	O	Eunice;Bli-Tu-Dr, N	1847
3002509920	Upland	B	20	5985	W E Lee 005	O	Blincbry O&G (oil)	1852
3002536160	Apache	L	17	4000	Lockhart A 17 008	O	Penrose Skelly; Grayburg	1852
3002539709	Apache	J	17	7200	WBDU 118	O	Eunice;Bli-Tu-Dr, N	1864
3002506692	Sheridan	D	20	6697	Elliott B Fed. 001	O	Penrose Skelly; Grayburg and Blincbry O&G (oil)	1869
3002506636	Conoco	L	17	3816	Lockhart A 17 001	P&A	Penrose Skelly; Grayburg	1874
3002536659	Apache	J	17	4215	W W Weatherly 008	O	Penrose Skelly; Grayburg	1902

API	WHO	UL	SECTION 21S-37E	TVD	WELL	WELL TYPE	POOL(S)	FEET FROM WBDU 87
3002506640	Upland	L	17	6690	Lockhart 001	O	Blinebry O&G (oil) and Tubb O&G (oil)	1929
3002511520	Upland	B	20	6658	W E Lee 002	O	Tubb O&G (oil) and Drinkard	1966
3002539986	Apache	P	17	6970	WBDU 121	O	Eunice;Bli-Tu-Dr, N	1979
3002539172	Apache	J	17	7200	WBDU 123	O	Eunice;Bli-Tu-Dr, N	2063
3002523831	Apache	P	17	3849	Percy Hardy 005	O	Penrose Skelly; Grayburg	2312
3002523953	Chevron Mid.	P	18	6863	L G Warlick 003	P&A	Penrose Skelly; Grayburg	2322
3002539038	Chevron USA	F	17	4321	Mittie Weatherly 009	O	Penrose Skelly; Grayburg	2471
3002533030	Chevron Mid.	A	19	6800	L G Warlick 004	O	Drinkard	2522
3002506652	Apache	P	17	6657	WBDU 085	O	Eunice;Bli-Tu-Dr, N	2621
3002506681	Chevron Mid.	F	20	6680	J G Randle A 001	O	Drinkard	2640
3002509921	Upland	F	20	3815	W E Lee 004	O	Penrose Skelly; Grayburg	2640
3002506635	Chevron USA	F	17	6635	Mittie Weatherly 001	O	Penrose Skelly; Grayburg	2643

DRINKARD PENETRATORS

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET	CEMENT	TOC	HOW TOC DETERMINED
WBDU 139	2/18/11	6970	Eunice;Bli-Tu-Dr, N	O	12.25	8.625	1295	680 sx	GL	Circ 256 sx
30-25-39989					7.875	5.5	6970	1240 sx	160	CBL
N-17-21S-37E										
WBDU 120	4/19/10	7219	Eunice;Bli-Tu-Dr, N	O	12.25	8.625	1292	650 sx	GL	Circ
30-25-39710					8	5.5	7219	1150 sx	GL	Circ
O-17-21S-37E										
WBDU 122	12/4/10	6962	Eunice;Bli-Tu-Dr, N	O	12.25	8.625	1310	665 sx	GL	Circ 187 sx
30-25-39171					7.875	5.5	6962	2100 sx	GL	Circ 78 sx
K-17-21S-37E										
WBDU 119	9/22/09	6900	Eunice;Bli-Tu-Dr, N	O	12.25	8.625	1265	650 sx	GL	Circ
30-25-39729					7.875	5.5	6900	1350 sx	4150	CBL
K-17-21S-37E										
Lockhart 002	11/1/51	6690	Blincbry O&G (oil), Tubb O&G (oil), & Drinkard	O	15.5	10.75	304	150 sx	GL	Circ
30-25-06641					10	7.625	2788	1250 sx	GL	Circ
M-17-21S-37E					7	5.5	6600	300 sx	3450	Temp Surv
WBDU 086	3/17/48	6650	Eunice;Bli-Tu-Dr, N	P&A	17.5	13.375	295	325 sx	GL	Circ
30-25-06653					11	8.625	2800	1200 sx	no report	N/A
O-17-21S-37E					7.875	5.5	6650	500 sx	no report	N/A
WBDU 074	9/5/48	6646	Eunice;Bli-Tu-Dr, N	O	17	13.375	348	300 sx	GL	Circ
30-25-06647					12.25	9.625	2841	1600 sx	GL	Circ
K-17-21S-37E					7.875	5.5	6646	600 sx	3800	no report
W E Lee 003	4/30/49	6674	Tubb O&G (oil) & Drinkard	O	17.25	13.375	235	175 sx	no report	N/A
30-25-09922					12.25	8.625	2647	650 sx	no report	N/A
C-20-21S-37E					7.875	5.5	6631	300 sx	no report	N/A

DRINKARD PENETRATORS

WBDU 136	1/22/11	6950	Eunice;Bli-Tu-Dr, N	O	12.25	8.625	1270	655 sx	GL	Circ 110 sx
30-25-39988					7.875	5.5	6950	1440 sx	GL	Circ 9 sx
K-17-21S-37E										
WBDU 072	8/1/47	6637	Eunice;Bli-Tu-Dr, N	O	13.375	10.75	337	300 sx	GL	Circ
30-25-06645					9.875	7.625	2845	1600 sx	GL	Circ
J-17-21S-37E					6.75	5.5	6639	550 sx	2500	Temp Survey
WBDU 118	4/25/10	7200	Eunice;Bli-Tu-Dr, N	O	12.25	8.625	1215	650 sx	GL	Circ
30-25-39709					7.875	5.5	7208	1400 sx	GL	Circ
J-17-21S-37E										
Elliott B Federal 001	4/21/47	6697	Penrose Skelly; Grayburg and Blinebry O&G (oil)	O	17.25	13.375	296	300 sx	GL	Circ
30-25-06692					12.25	9.625	2846	1000 sx	GL	Circ
D-20-21S-37E					8.625	7	6548	500 sx	3748	Calc
Lockhart 001	5/23/51	6690	Blinebry O&G (oil) and Tubb O&G (oil)	O		10.75	309	150 sx	GL	Circ
30-25-06640						7.625	2800	1375 sx	GL	Circ
L-17-21S-37E						5.5	6600	300 sx	no report	N/A
W E Lee 002	12/29/47	6658	Tubb O&G (oil) & Drinkard	O	16	12.5	190	250 sx	GL	circ
30-25-11520					11	8.625	2634	850 sx	no report	N/A
B-20-21S-37E					7.75	5.5	6577	625 sx	no report	N/A
WBDU 121	1/1/11	6970	Eunice;Bli-Tu-Dr, N	O	12.25	8.625	1300	665 sx	GL	Circ 95 sx
30-25-39986					7.875	5.5	6970	1370 sx	124	CBL
P-17-21S-37E										
WBDU 123	5/21/10	7200	Eunice;Bli-Tu-Dr, N	O	12.25	8.625	1248	650 sx	GL	Circ
30-25-39172					7.875	5.5	7200	1150 sx	424	log
J-17-21S-37E										

# DRINKARD PENETRATORS

L G Warlick 003	12/14/71	6863	Penrose Skelly; Grayburg	P&A	17.5	13.375	322	350 sx	GL	Circ 10 sx
30-25-23953					12.25	9.625	2523	900 sx	GL	Circ 75 sx
P-18-21S-37E					8.75	7	6863	725 sx	2890	Temp Survey
L G Warlick 004	10/3/95	6800	Drinkard	O	12.25	8.625	1270	675 sx	GL	Circ 175 sx
30-25-33030					7.875	5.5	6800	1400 sx	GL	trace
A-19-21S-37E										
WBDU 085	4/24/47	6657	Eunice;Bli-Tu-Dr, N	O	15.5	13.375	300	300 sx	GL	Circ
30-25-06652					11	8.625	2815	1200 sx	no report	N/A
P-17-21S-37E					7.875	5.5	6611	500 sx	no report	N/A
J G Randle A 001	11/30/48	6680	Drinkard	O	17.25	13.375	152	200 sx	GL	Circ
30-25-06681					11	8.625	2868	1250 sx	418	Temp Surv
F-20-21S-37E					7.875	5.5	6650	600 sx	no report	N/A
Mittie Weatherly 001	7/1/48	6635	Penrose Skelly; Grayburg	O	17.25	13.375	273	300 sx	GL	Circ
30-25-06635					11	8.625	2791	1000 sx	1740	Temp Survey
F-17-21S-37E					7.875	5.5	6638	350 sx	3390	CBL

# Apache

LEASE NAME

WBDU

WELL #

#86

API #

30-025-06653

COUNTY

Lea

O-17-21s-37e

spud: 3-17-48

P&A: 7-13-11

13 3/8" csg @ 295'  
w/ 325 sx cmt to surf

Perf'd @ 345'  
pumped 110 sx down 5.5" -  
8.625" to GL  
could not pump into 13.375"

Perf'd @ 1469'  
50 sx 1296'-1469'

8 5/8" csg @ 2800' w/ 1200 sx  
TOC Unkown

Perf'd @ 2850'  
50 sx 2586'-2850'

Perf'd @ 3600'  
50 sx 3468'-3600'

TOC Unkown?

Perf'd @ 5450'  
45 sx 5044'-5459'

CIBP @ 5515' w/ 25' cmt

Blindbry perms @ 5585' - 6029'

Sand fill to 6100'  
CIBP @ 6150' w/ 10' cmt

Tubb perms @ 6200' - 6300'

1 1/2 sx cmt w/ 3 sx sand  
TOC 6497'  
Model "D" pkr w/ bull plug

Drinkard perms @ 6625' - 6650'

5 1/2" csg @ 6650'  
w/ 500 sx cmt

TD 6650'

EXHIBIT H

Lease Name: LG WARLICK  
 Well No. 3  
 Location: 660' FSL & 330' FEL  
 UL\Sec.: P/18  
 TWSHP/RNGE 21S / 37E  
 COSTCENTER: BCU497100

Field: PENROSE SKELLY  
 Reservoir: DHC - GRYBRG, DRNKRD, BLINEBRY  
 GE: 3490'  
 KB: 3509'  
 DFE:   
 Status: SI

API No. : 30-025-23953  
 REFNO: FG9270  
 Spud Date: 12/14/1971  
 Comp. Date:   
 County: LEA  
 State: NM

spud 12-14-71  
 P&A 1-7-13

perf @ 60'  
 circ 50' sx  
 to GL

perf @ 357'  
 saz 30 sx

perf @ 1302'  
 sqz 50 sx  
 1302' - 1086'

perf @ 2573'  
 sqz 50 sx  
 2573' - 2355'

spot 30 sx  
 @ 3853'

DV TOOL @ 4055'

sqz 225 sx  
 @ 5562'

Hole Size: 17 1/2"  
 Csg. Size: 13 3/8" 65.5, H-40 ST&C  
 Set @: 322'  
 Sks. Cmt.: 350 SKS  
 TOC @: SURF  
 Circ: Y/N: Y 10 SKS

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

Hole Size: 12 1/4"  
 Csg. Size: 9 5/8" 32 3# & 36# H-40 ST&C  
 Set @: 2523'  
 Sks. Cmt.: 900 SKS H  
 TOC @: SURF  
 Circ: Y/N: Y 75 SKS

TOC BY TS 2890'

GRAYBURG Perfs;  
 3,723'-3,784'

BLINEBRY Perfs;  
 5,679'-5,873'

DRINKARD Perfs  
 6,630'-6,697'  
 6,685'-6,697'  
 6,751'-6,794' sqzd

CIBP @ 3437'  
 Class C plug 3437' - 3263'

Hole Size: 8 3/4"  
 Csg. Size: 7", 20, 23, 26# J-55 LT&C  
 Set @: 6863'  
 Sks. Cmt.: 550 SKS H +175 SKS THRU DV  
 TOC @: 2890' BY TS  
 Circ: Y/N: N

PBTD 6721'  
 TD 6863'

Updated

10/19/2012

By SEHE

EXHIBIT H



# 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 Nur---	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Water
CP00895 (Simms)			LE	1	1	20	21S	37E		669957	3593956*	570		163			
CP 00447 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	713		95			
CP 00448 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	713		100			
CP 01026 POD1 (Kerbo)			LE	1	1	3	17	21S	37E	669809	3594958	806		167		95	72
CP 00676			LE		4	4	18	21S	37E	669548	3594352*	807		140		106	34
CP 00985 POD1	1 mile =		LE	4	4	2	19	21S	37E	669595	3593453	1186		160			
CP 01245 POD1	1610 meters		LE	1	4	3	18	21S	37E	668677	3594410	1678		220			
CC 01999 POD1			CU	3	3	2	29	03N	36E	670385	3592502	1862		415		372	43
CP 00446 POD1		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2484		185		148	37
CP 00446 POD2		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2484		200		151	49
CP 00554			LE		2	2	16	21S	37E	672744	3595610*	2693		80		70	10
CP 00729 POD1		CP	LE	4	1	3	15	21S	37E	673259	3594711*	2924		8015			
CP 00513 POD1		CP	LE	3	1	3	28	21S	37E	671508	3591467*	3118		5000		4374	626
CP 01575 POD1		CP	LE	1	2	1	22	21S	37E	673543	3594200	3191		40		35	5

Average Depth to Water: 668 feet

Minimum Depth: 35 feet

Maximum Depth: 4374 feet

Record Count: 14

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

Easting (X): 670355

Northing (Y): 3594365

Radius: 3220

\*UTM location was derived from PLSS - see Help

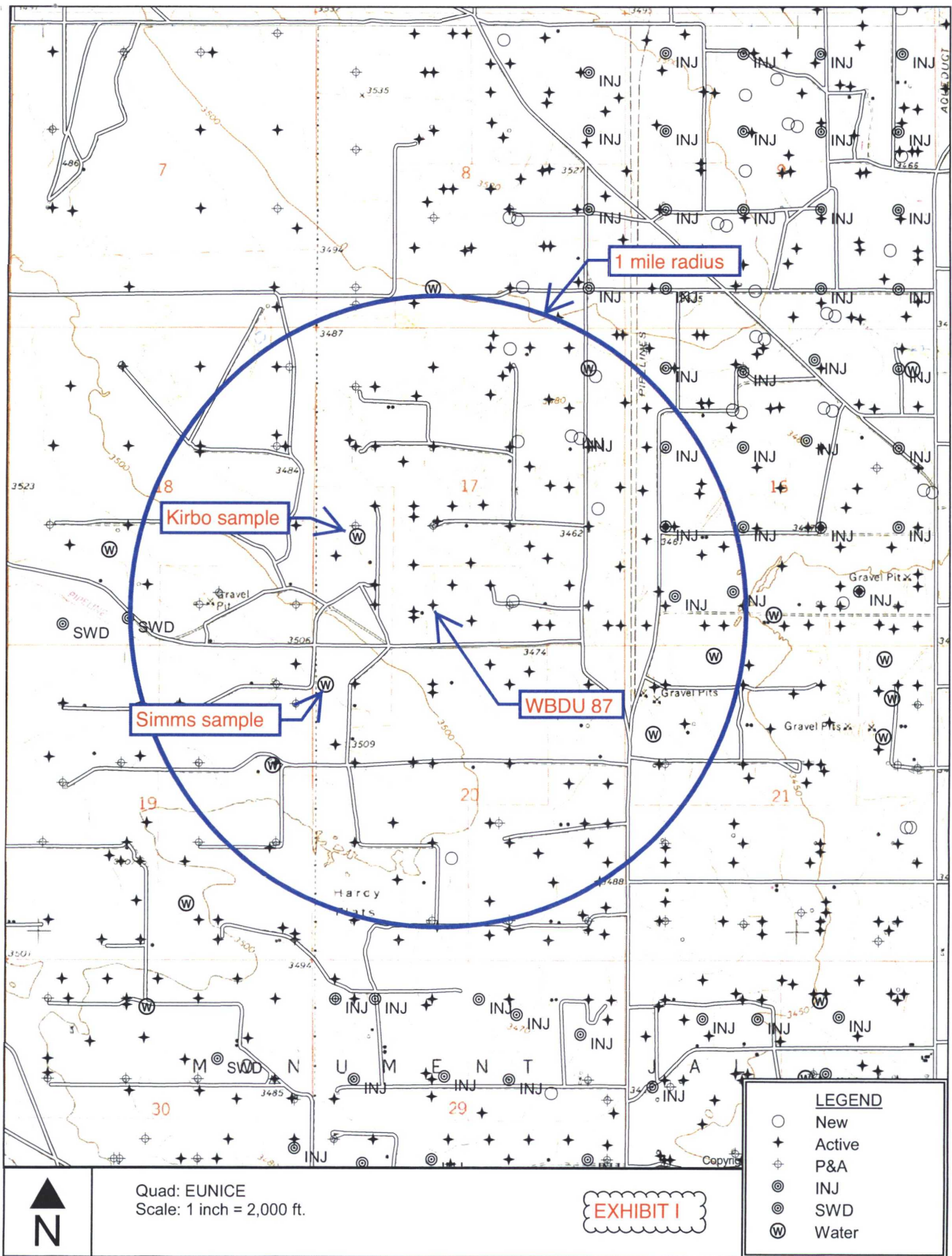
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/5/17 8:59 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

EXHIBIT I





**Analytical Report**

Lab Order 1703735

Date Reported: 3/28/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Permits West**Project:** Apache WBDU SWD #87**Lab ID:** 1703735-001**Client Sample ID:** WBDU Simms Tank**Collection Date:** 3/12/2017 2:37:00 PM**Received Date:** 3/14/2017 3:21:00 PM**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						
Chloride	160	10		mg/L	20	Analyst: LGT 3/14/2017 11:11:37 PM
<b>EPA METHOD 1664B</b>						
N-Hexane Extractable Material	ND	10.7		mg/L	1	Analyst: tnc 3/17/2017
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						
Total Dissolved Solids	658	40.0	*D	mg/L	1	Analyst: KS 3/17/2017 6:11:00 PM

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

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 5

**EXHIBIT J**

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703735

Date Reported: 3/28/2017

CLIENT: Permits West

Client Sample ID: WBDU Kenbo Tank

Project: Apache WBDU SWD #87

Collection Date: 3/12/2017 3:25:00 PM

Lab ID: 1703735-002

Matrix: AQUEOUS

Received Date: 3/14/2017 3:21:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LGT</b>
Chloride	51	10		mg/L	20	3/14/2017 11:36:27 PM
<b>EPA METHOD 1664B</b>						Analyst: <b>tnc</b>
N-Hexane Extractable Material	ND	10.2		mg/L	1	3/17/2017
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>						Analyst: <b>KS</b>
Total Dissolved Solids	451	20.0		mg/L	1	3/17/2017 6:11:00 PM

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

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

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

Page 2 of 5



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703735

28-Mar-17

Client: Permits West

Project: Apache WBDU SWD #87

Sample ID	MB-30751	SampType	MBLK	TestCode	EPA Method 1664B					
Client ID	PBW	Batch ID	30751	RunNo	41466					
Prep Date	3/17/2017	Analysis Date	3/17/2017	SeqNo	1300240	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-30751	SampType	LCS	TestCode	EPA Method 1664B					
Client ID	LCSW	Batch ID	30751	RunNo	41466					
Prep Date	3/17/2017	Analysis Date	3/17/2017	SeqNo	1300241	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	36.4	10.0	40.00	0	91.0	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                                    |
| 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#: 1703735

28-Mar-17

Client: Permits West

Project: Apache WBDU SWD #87

Sample ID: MB	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBW	Batch ID: R41363	RunNo: 41363
Prep Date:	Analysis Date: 3/14/2017	SeqNo: 1297183 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: R41363	RunNo: 41363
Prep Date:	Analysis Date: 3/14/2017	SeqNo: 1297184 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 97.7 90 110

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

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

Page 4 of 5

EXHIBIT J

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703735

28-Mar-17

Client: Permits West

Project: Apache WBDU SWD #87

Sample ID: MB-30731	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: PBW	Batch ID: 30731	RunNo: 41476
Prep Date: 3/16/2017	Analysis Date: 3/17/2017	SeqNo: 1300323 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-30731	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: LCSW	Batch ID: 30731	RunNo: 41476
Prep Date: 3/16/2017	Analysis Date: 3/17/2017	SeqNo: 1300324 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:

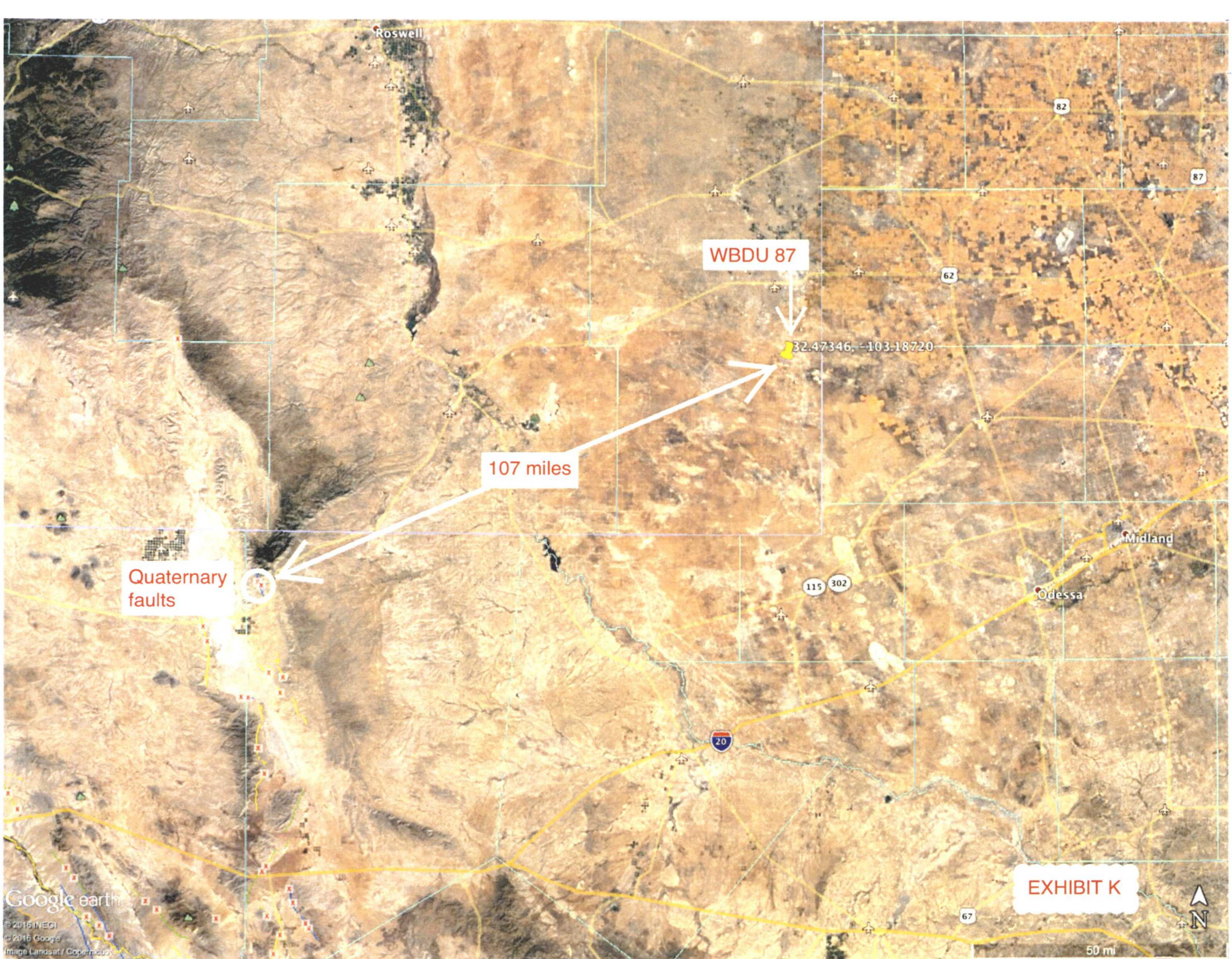
\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

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

Page 5 of 5

EXHIBIT J







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

---

Brian,

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

Regards,

**MARTIN J. OLDANI**  
PERMIAN REGION EXPLORATION & EXPLOITATION MANAGER  
Apache main (432) 818 1000 | fax (432) 818 1982  
office 6100A | direct (432) 818 1030 | mobile (432) 234-1925  
[martin.oldani@apachecorp.com](mailto:martin.oldani@apachecorp.com)  
**APACHE CORPORATION - PERMIAN REGION**  
303 Veterans Airway Park  
Midland, TX 79705

---

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

Martin:

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

Please contact me or Justin if you have further questions.

Sincerely,

**DR. MARK PASLEY**  
GEOLOGICAL ADVISOR  
direct +1 432.818.1835 | mobile +1 832.943.9040 | office 6112A

**APACHE PERMIAN**  
303 Veterans Airpark Lane  
Midland, TX 79705 USA

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

EXHIBIT K



# 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).

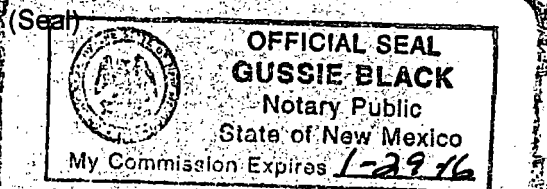
Beginning with the issue dated  
March 08, 2017  
and ending with the issue dated  
March 08, 2017.

  
Publisher

Sworn and subscribed to before me this  
8th day of March 2017.

  
Business Manager

My commission expires  
January 29, 2019



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

## LEGALS

### LEGAL NOTICE March 8, 2017

Apache Corporation is applying to deepen and convert the West Blinbry Drinkard Unit 87 oil well to a water injection well. The well is at 660 FSL & 1980 FWL, Sec. 17, T. 21 S., R. 37 E., Lea County, NM. This is 2 1/2 miles northwest of Eunice, NM. It will inject water into the Drinkard (maximum injection pressure = 1,120 psi) from 6,482' to 6,753'. Injection will be at a maximum rate of 3,000 bwpd. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120 #31602

02108485

00189799

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

EXHIBIT L

# PERMITS WEST, INC.

PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87508

(505) 466-8120

March 29, 2017

Chevron USA Inc.  
PO Box 285  
Houston TX 77001

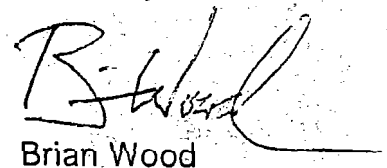
Apache Corporation is applying (see attached application) to deepen its West Blinebry Drinkard Unit 87 oil well and convert it to a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: West Blinebry Drinkard Unit 87 (fee lease) ID = 6,809'  
Proposed Injection Zone: Drinkard from 6,482' to 6,753'  
Where: 660' FSL & 1980' FWL Sec. 17, T. 21 S., R. 37 E., Lea County, NM  
Approximate Location: 2-1/2 air miles NW 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

U.S. Postal Service  
**CERTIFIED MAIL® RECEIPT**  
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For delivery information, visit our website at [www.usps.com](http://www.usps.com)

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

Sent To: Chevron USA Inc.  
PO Box 28  
Houston TX 77001  
City, State, ZIP+4: Apache WBDU 87

Postmark: Here

Stamp: MAR 29 2017

Stamp: 87552-9996

EXHIBIT M

# PERMITS WEST, INC.

PROVIDING PERMITS FOR LAND LITIGATIONS

March 29, 2017

ConocoPhillips Co.  
PO Box 7500  
Bartlesville OK 74005

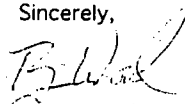
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**Approximate Location:** 2-1/2 air miles NW of Eunice, NM  
**Applicant Name:** Apache Corporation (432) 818-1062  
**Applicant's Address:** 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

Sincerely,



Brian Wood

U.S. Postal Service	
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Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
Total Postage and Fees	
Sent To	
Conoco Phillips Co. PO Box 7500 Bartlesville OK 74005 Apache WBDU 87	
Street and Apt. No., or P.O. Box	
City, State, ZIP+4®	

EXHIBIT M

# PERMITS WEST, INC.

PROVIDING PERMITS FOR LAND LITIGATIONS

March 29, 2017

Chevron USA Inc.  
6301 Deauville  
Midland TX 79706

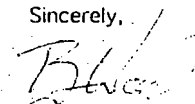
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**Approximate Location:** 2-1/2 air miles NW of Eunice, NM  
**Applicant Name:** Apache Corporation (432) 818-1062  
**Applicant's Address:** 303 Veterans Airpark Lane, #3000, Midland, TX 79705

**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

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Domestic Mail Only	
Certified Mail Fee	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	
Total Postage and Fees	
Sent To	
Chevron USA Inc. 6301 Deauville Midland TX 79706 Apache WBDU 87	
Street and Apt. No., or P.O. Box	
City, State, ZIP+4®	

# PERMITS WEST, INC.

PROVIDING PERMITS FOR LAND USERS

March 29, 2017

Six Aeches Co.  
902 Country Club  
Midland TX 79701

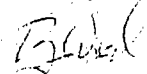
Apache Corporation is applying (see attached application) to deepen its West Blinebry Drinkard Unit 87 oil well and convert it to a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

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**Where:** 660' FSL & 1980' FWL Sec. 17, T. 21 S., R. 37 E., Lea County, NM  
**Approximate Location:** 2-1/2 air miles NW of Eunice, NM  
**Applicant Name:** Apache Corporation (432) 818-1062  
**Applicant's Address:** 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT M

# PERMITS WEST, INC.

PROVIDING PERMITS FOR LAND USERS

March 29, 2017

ConocoPhillips Co.  
600 N. Dairy Ashford Rd.  
Houston TX 77079

Apache Corporation is applying (see attached application) to deepen its West Blinebry Drinkard Unit 87 oil well and convert it 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.

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**Approximate Location:** 2-1/2 air miles NW of Eunice, NM  
**Applicant Name:** Apache Corporation (432) 818-1062  
**Applicant's Address:** 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

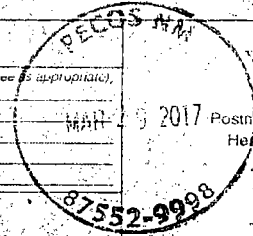
Sincerely,



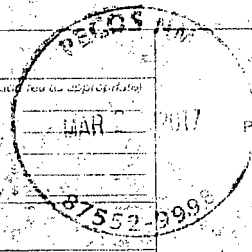
Brian Wood

7016 2710 0000 2518 1047

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage \$	
Total Postage and Fees \$	
Sent To <b>ConocoPhillips Co.</b>	
<b>600 N. Dairy Ashford Rd</b>	
<b>Houston TX 77079</b>	
<b>Apache WBDU 87</b>	
Street and Apt. No., or P.O. Box	
City, State, ZIP+4®	



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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage \$	
Total Postage and Fees \$	
Sent To <b>Six Aeches Co.</b>	
<b>902 Country Club</b>	
<b>Midland TX 79701</b>	
<b>Apache WBDU 87</b>	
Street and Apt. No., or P.O. Box	
City, State, ZIP+4®	



March 29, 2017

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

Apache Corporation is applying (see attached application) to deepen its West Blinebry Drinkard Unit 87 oil well and convert it 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.

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**Approximate Location:** 2-1/2 air miles NW 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*

Brian Wood

**U.S. Postal Service**  
**CERTIFIED MAIL RECEIPT**  
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Sent To  
123 Robert S. Kerr Ave  
Oklahoma City OK 73102  
Apache WBDU 87

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

7016 2710 0000 0122 9100

EXHIBIT M

March 29, 2017

Mitchell Brown Properties Inc.  
PO Box 5562  
Midland TX 79704

Apache Corporation is applying (see attached application) to deepen its West Blinebry Drinkard Unit 87 oil well and convert it 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:** West Blinebry Drinkard Unit 87 (fee lease) ID = 6,809'  
**Proposed Injection Zone:** Drinkard from 6,482' to 6,753'  
**Where:** 660' FSL & 1980' FWL Sec. 17, T. 21 S., R. 37 E., Lea County, NM  
**Approximate Location:** 2-1/2 air miles NW of Eunice, NM  
**Applicant Name:** Apache Corporation (432) 818-1062  
**Applicant's Address:** 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

Sincerely,

*Brian Wood*

Brian Wood

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Postage \$  
Total Postage and Fees \$

Sent To  
Mitchell Brown Properties Inc.  
PO Box 5562  
Midland TX 79704  
Apache WBDU 87

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

7016 2710 0000 0122 9100

# PERMITS WEST INC.

PROVIDING PERMITS FOR LAND OWNERS

March 29, 2017

Chevron Midcontinent, L.P.  
6301 Deauville  
Midland TX 79706

Apache Corporation is applying (see attached application) to deepen its West Blinbry Drinkard Unit 87 oil well and convert it 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.

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**Applicant Name:** Apache Corporation (432) 818-1062  
**Applicant's Address:** 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

Sincerely,

*Brian Wood*

Brian Wood

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

PECOS NM  
MAR 29 2017  
87552-9998

EXHIBIT M

Chevron Midcontinent L.P.  
6301 Deauville  
Midland TX 79706  
Apache WBDU 87

# PERMITS WEST INC.

PROVIDING PERMITS FOR LAND OWNERS

March 29, 2017

Sheridan Holding Co. II LLC  
9 Greenway Plaza, Suite 1300  
Houston TX 77046

Apache Corporation is applying (see attached application) to deepen its West Blinbry Drinkard Unit 87 oil well and convert it 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.

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Please call me if you have any questions.

Sincerely,

*Brian Wood*

Brian Wood

U.S. Postal Service  
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Domestic Mail Only

PECOS NM  
MAR 29 2017  
87552-9998

Sheridan Holding Co. II LLC  
9 Greenway Plaza, Suite 1300  
Houston TX 77046  
Apache WBDU 87

# PERMITS WEST, INC.

PROVIDING PERMITS FOR LAND USERS

March 29, 2017

Upland Production Company  
PO Box 1327  
Edmond OK 73083

Apache Corporation is applying (see attached application) to deepen its West Blinberry Drinkard Unit 87 oil well and convert it 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.

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**Where:** 660' FSL & 1980' FWL Sec. 17, T. 21 S., R. 37 E., Lea County, NM  
**Approximate Location:** 2-1/2 air miles NW of Eunice, NM  
**Applicant Name:** Apache Corporation (432) 818-1062  
**Applicant's Address:** 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

Sincerely,

*Brian Wood*

Brian Wood

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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$
Sent To	Upland Production Co. PO Box 1327 Edmond OK 73083 Apache WBDU 87
Street and Apt. No., or P.O. Box	
City, State, ZIP+4®	

PECOS NM  
MAR 29 2017

EXHIBIT M

# PERMITS WEST, INC.

PROVIDING PERMITS FOR LAND USERS

March 29, 2017

BLM  
620 E. Greene  
Carlsbad NM 88220

Apache Corporation is applying (see attached application) to deepen its West Blinberry Drinkard Unit 87 oil well and convert it 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.

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

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Please call me if you have any questions.

Sincerely,

*Brian Wood*

Brian Wood

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<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$
Sent To	BLM 620 E. Greene Carlsbad NM 88220 Apache WBDU 87
Street and Apt. No., or P.O. Box	
City, State, ZIP+4®	

PECOS NM  
MAR 29 2017

7016 2710 0000 2518 0989



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1. Article Addressed to:

Chevron USA Inc.  
 PO Box 285  
 Houston TX 77001

9590 9402 2329 6225 4759 24

Apache - WBDU 87

2. Article Number (Transfer from service label)

7016 2710 0000 2518 1054

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

Domestic Return Receipt

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A. Signature

X

☐ Agent  
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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3. Service Type

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

BLM  
 620 E. Greene  
 Carlsbad NM 88220

9590 9402 2329 6225 4759 17

Apache - WBDU 87

2. Article Number (Transfer from service label)

7016 2710 0000 2518 0989

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

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent  
☒ Addressee

B. Received by (Printed Name)

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

## SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Mitchell Brown Properties Inc.  
 PO Box 5562  
 Midland TX 79704

9590 9402 2329 6225 4759 79

Apache - WBDU 87

2. Article Number (Transfer from service label)

7016 2710 0000 2518 1009

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

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## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent  
☒ Addressee

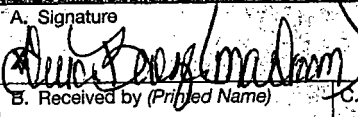
B. Received by (Printed Name)


C. Date of Delivery

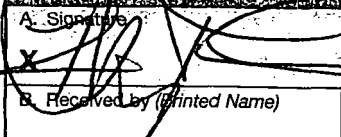
D. Is delivery address different from item 1? ☐ Yes  
 If YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature  
☐ Adult Signature Restricted Delivery  
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☐ 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

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature  <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p>	
1. Article Addressed to:		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
Chevron Midcontinent, L. P. 6301 Deauville Midland TX 79706			
9590 9402 2329 6225 4760 06			
Apache - WBDU 87			
2. Article Number (Transfer from service label)		3. Service Type	
7016 2710 0000 2518 0965		<input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
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1. Article Addressed to:		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
ConocoPhillips Co. PO Box 7500 Bartlesville OK 74005		<div style="border: 1px solid black; padding: 5px; text-align: center;">Mail Sent Bartlesville, OK</div>	
9590 9402 2329 6225 4759 48			
Apache - WBDU 87			
2. Article Number (Transfer from service label)		3. Service Type	
7016 2710 0000 2518 1030		<input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

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1. Article Addressed to:		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
ConocoPhillips Co. 600 N. Dairy Ashford Rd. Houston TX 77079			
9590 9402 2329 6225 4759 55			
Apache - WBDU 87			
2. Article Number (Transfer from service label)		3. Service Type	
7016 2710 0000 2518 1047		<input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery	
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

## SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

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

9590 9402 2329 6225 4759 86

Apache - WBDU 87

2. Article Number (Transfer from service label)

7016 2710 0000 2518 1016

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

Domestic Return Receipt

## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Quincy Brown

- ☐ Agent  
☐ Addressee

B. Received by (Printed Name)

Quincy Brown

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

Restricted Delivery

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

1. Article Addressed to:

Sheridan Holding Co. II LLC  
9 Greenway Plaza, Suite 1300  
Houston TX 77046

9590 9402 2329 6225 4759 93

Apache - WBDU 87

2. Article Number (Transfer from service label)

7016 2710 0000 2518 0958

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

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## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

[Signature]

- ☐ Agent  
☐ Addressee

B. Received by (Printed Name)

[Signature]

C. Date of Delivery

4-3

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™  
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☐ Signature Confirmation™  
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Restricted Delivery

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

1. Article Addressed to:

Six Aches Co.  
902 Country Club  
Midland TX 79701

9590 9402 2329 6225 4759 62

Apache - WBDU 87

2. Article Number (Transfer from service label)

7016 2710 0000 2518 0996

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

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## COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

[Signature]

- ☐ Agent  
☐ Addressee

B. Received by (Printed Name)

MICHAEL HEDRICK

C. Date of Delivery

4-1-17

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  
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- ☐ Priority Mail Express®  
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☐ Registered Mail Restricted Delivery  
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☐ Signature Confirmation Restricted Delivery

Restricted Delivery

## SENDER COMPLETE THIS SECTION

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

## 1. Article Addressed to:

Upland Production Company  
PO Box 1327  
Edmond OK 73083

9590 9402 2329 6225 4760 13

Apache - WBDU 87

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

7016 2710 0000 2518 0972

## COMPLETE THIS SECTION ON DELIVERY

## A. Signature

X

*[Signature]*

☐ Agent

☐ Addressee

## B. Received by (Printed Name)

*Ken [Signature]*

## C. Date of Delivery

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

## 3. Service Type

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☐ Adult Signature Restricted Delivery

☐ Certified Mail®

☐ Certified Mail Restricted Delivery

☐ Collect on Delivery

☐ Collect on Delivery Restricted Delivery

☐ Priority Mail Express®

☐ Registered Mail™

☐ Registered Mail Restricted Delivery

☐ Return Receipt for Merchandise

☐ Signature Confirmation™

☐ Signature Confirmation Restricted Delivery

Restricted Delivery

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

Domestic Return Receipt

## **McMillan, Michael, EMNRD**

---

**From:** McMillan, Michael, EMNRD  
**Sent:** Monday, April 24, 2017 12:01 PM  
**To:** Goetze, Phillip, EMNRD; Jones, William V, EMNRD  
**Subject:** FW: Apache WBDU Well No. 87

---

**From:** McMillan, Michael, EMNRD  
**Sent:** Monday, April 24, 2017 12:01 PM  
**To:** 'Brian Wood' <brian@permitswest.com>  
**Subject:** Apache WBDU Well No. 87

Brian:

Please confirm the perforated interval. Your application states 6482'-6753'. Well file table of Apache shows the perforated interval 6574'-6734'. However, the perms shown next to the well bore diagram shows the perforated interval as 6482'-6754'

Next, your application shows the injection packer at 6432'. Apache well file shows the injection packer at 6540' next to the well bore diagram.

Based on these discrepancies, I would not recommend signature by the Director.

Your application and Apache's submittal to the OCD must match.

Your application will be suspended today.

If a corrected form is not received within 10 days, your application will be cancelled.

### **MICHAEL A. MCMILLAN**

Engineering Bureau, Oil Conservation Division  
1220 south St. Francis Dr., Santa Fe NM 87505  
O: 505.476.3448  
[Michael.McMillan@state.nm.us](mailto:Michael.McMillan@state.nm.us)

Submit 1 Copy To Appropriate District Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO. 30-025-06643
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name West Blinbry Drinkard Unit
8. Well Number 87
9. OGRID Number 873
10. Pool name or Wildcat Eunice; BLI-TU-DR, North (22900)
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3499' GL

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other WIW

2. Name of Operator

Apache Corporation

3. Address of Operator

303 Veterans Airpark Lane, Suite 3000, Midland TX 79705

4. Well Location

Unit Letter: N

660 feet from the South line and 1980 feet from the West line

Section 17

Township 21 S

Range 37 E

NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3499' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☒ MULTIPLE COMPL ☐

DOWNHOLE COMMINGLE ☐

CLOSED-LOOP SYSTEM ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ P AND A ☐

CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Will change perforation interval and packer setting depth from that shown in 1-11-17 Sundry Notice.  
Perforated interval will now be 6482'-6735'. Packer will be set at ≈6432'.

Spud Date:

11-23-49

Rig Release Date:

1-3-50

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

*Brian Wood*

TITLE Consultant

DATE 4-25-17

Type or print name Brian Wood

E-mail address: brian@permitswest.com

PHONE: (505) 466-8120

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):



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

ORDER TYPE: WFX / PMX / SWD Number: \_\_\_\_\_ Order Date: \_\_\_\_\_ Legacy Permits/Orders: 12-12581

Well No. \_\_\_\_\_ Well Name(s): WBD4 87

API: 30-0 25-06643 Spud Date: 11-23-1992 New or Old: \_\_\_\_\_ (UIC Class II Primacy 03/07/1982)

Footages 660FSL 1480FWL Lot \_\_\_\_\_ or Unit N Sec 17 Tsp 21S Rge 37E County LEC

General Location: Elmire N SAL Pool: EUNICE JBLI-T4-M Pool No.: 2205

BLM 100K Map: SAL Operator: Apache Corporation OGRID: 873 Contact: Brian Wood, agent

COMPLIANCE RULE 5.9: Total Wells: 2963 Inactive: 3 Fincl Assur: NA Compl. Order? NA IS 5.9 OK? Y Date: 5-03-2017

WELL FILE REVIEWED ☒ Current Status: Producing

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

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

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx 9 Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface		12 1/2 3/8"	154	200	Surface / Visual
Planned ___ or Existing ___ Interm/Prod		11 3/4 1/8"	2878	1500	Unknown / CBL
Planned ___ or Existing ___ Interm/Prod		7 7/8 1/2"	5130	300	Unknown / CBL
Planned ___ or Existing ___ Prod/Liner		5 1/2 1/2"	6809	252	
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH / PERF		6 1/2 2 1/2 3/8"			

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
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 <u>6659</u>	PBTD _____
NEW TD <u>6809</u>	NEW PBTD <u>6754</u>
NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>	
Tubing Size <u>2 3/8</u> in.	Inter Coated? <u>Y</u>
Proposed Packer Depth <u>6800</u> ft	
Min. Packer Depth _____	(100-ft limit)
Proposed Max. Surface Press. <u>1120</u> psi	
Admin. Inj. Press. <u>1120</u>	(0.2 psi per ft)

**AOR: Hydrologic and Geologic Information**

POTASH: R-111-P NA Noticed? \_\_\_\_\_ BLM Sec Ord ☐ WIPP ☐ Noticed? NA Salt/Salado 2490 B: 2600 NW: Cliff House fm \_\_\_\_\_

FRESH WATER: Aquifer Capitan Max Depth \_\_\_\_\_ HYDRO AFFIRM STATEMENT By Qualified Person ☒

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

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

Disposal Int: Inject Rate (Avg/Max BWPD): 2.5/13K Protectable Waters? Y Source: \_\_\_\_\_ System Closed or Open

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

AOR Wells: 1/2-M Radius Map? Y Well List? \_\_\_\_\_ Total No. Wells Penetrating Interval: 20 Horizontals? NA

Penetrating Wells: No. Active Wells 18 Num Repairs? \_\_\_\_\_ on which well(s)? \_\_\_\_\_ Diagrams? \_\_\_\_\_

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

NOTICE: Newspaper Date March 8, 2017 Mineral Owner BLM Surface Owner Chevron, USA Date \_\_\_\_\_

RULE 26.7(A): Identified Tracts? \_\_\_\_\_ Affected Persons: Chevron, ConocoPhillips, Sandridge N. Date \_\_\_\_\_

Order Conditions: Issues: Liner from 6809 Surface, WLC-13-L