

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

NEV-964

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

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

Brian Wood

Signature

3-29-17

 Date

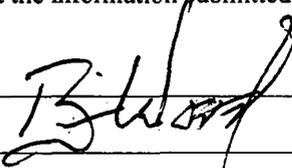
505 466-8120

 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
- Proposed average and maximum daily rate and volume of fluids to be injected;
 - Whether the system is open or closed;
 - Proposed average and maximum injection pressure;
 - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 - 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.

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

INJECTION WELL DATA SHEET

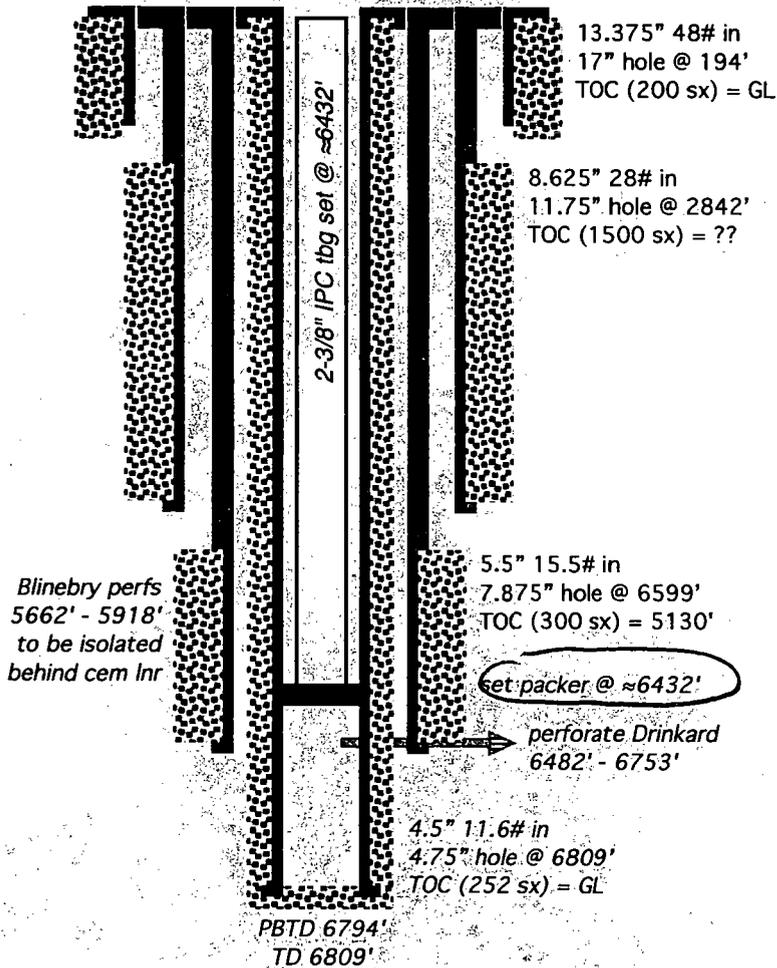
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 87

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

WELLBORE SCHEMATIC

(Proposed Actions Italicized)



(not to scale)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17" Casing Size: 13.375"
 Cemented with: 200 sx. or _____ ft³
 Top of Cement: SURFACE Method Determined: VISUAL

Intermediate Casing

Hole Size: 11.75" Casing Size: 8.625"
 Cemented with: 1500 sx. or _____ ft³
 Top of Cement: unknown Method Determined: CBL will be run

Production Casing

Hole Size: 7.875" Casing Size: 5.5"
 Cemented with: 300 sx. or _____ ft³
 Top of Cement: 5130' Method Determined: estimated
 Total Depth: 6659' now & 6809' proposed CBL will be run

Injection Interval

6482' feet to 6753'

(Perforated or Open Hole; indicate which)

.....

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

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

Additional Data1. Is this a new well drilled for injection? _____ Yes XXX NoIf no, for what purpose was the well originally drilled? DRINKARD OIL WELL2. Name of the Injection Formation: DRINKARD3. Name of Field or Pool (if applicable): EUNICE; BLI-TU-DR, NORTH (POOL CODE 22900)4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. YESBLINEBRY 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

PAGE 1

30-025-06643

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.

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%. PBD = 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).

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

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

30-025-06643

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 Andrés 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'
<i>Top proposed injection interval = 6,482'</i>
Current TD = 6,659'
<i>Bottom proposed injection interval = 6,753'</i>
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.

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.

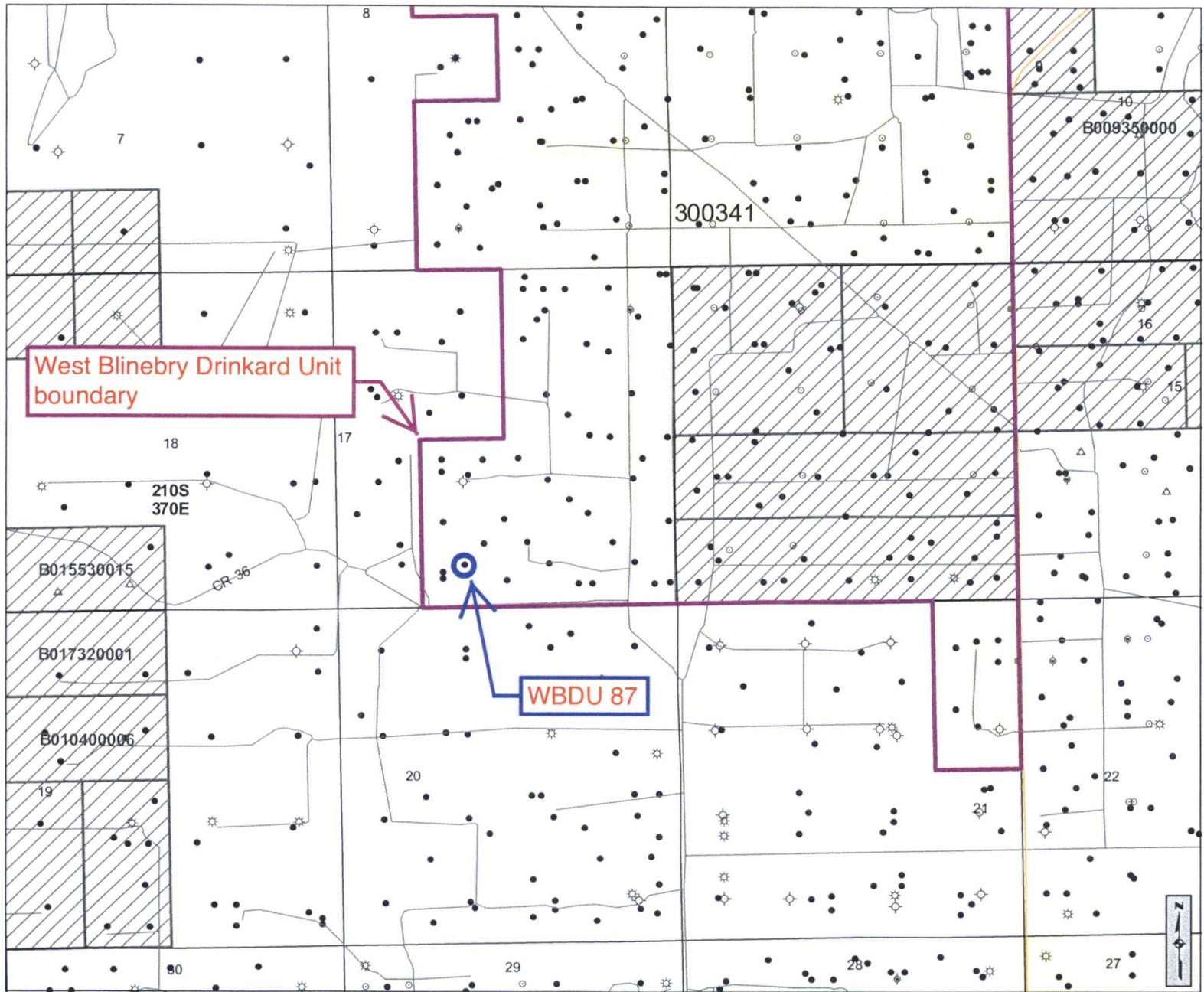
IX. The well will be stimulated with acid to clean out scale or fill.

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.).



- Cartographic Features**
- County Boundaries
 - County Seats
 - City, Town or Village
 - SLO District Offices
 - SLO District Boundary
 - Hwy Mileposts
 - Interstate
 - NM Hwy
 - US Hwy
 - Local Road
 - Continental Divide
- Federal Minerals Ownership**
- All Minerals
 - Coal Only
 - Oil and Gas Only
 - Oil, Gas and Coal Only
 - Other Minerals
- State Trust Lands**
- Surface Estate
 - Subsurface Estate
 - Surface and Subsurface Estate
- State Leases**
- Oil and Gas Leases
 - Agricultural Leases
 - Commercial Leases
 - Minerals Leases
 - Not Available for Oil and Gas Leasing
 - Oil and Gas Leasing Influenced by Restriction
- Oil and Gas Related Features**
- Oil and Gas Unit Boundary
 - Participating Areas in Units
 - Geologic Regions
 - Volcanic Vents
 - NMOC D Order R-111-P Potash Enclave Outline
- NMOC D Oil and Gas Wells**
- CO₂
 - Gas
 - Injection
 - Miscellaneous
 - Oil
 - Salt Water Disposal
 - Water
 - DA or PA

West Blinebry Drinkard Unit boundary

WBDU 87

**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

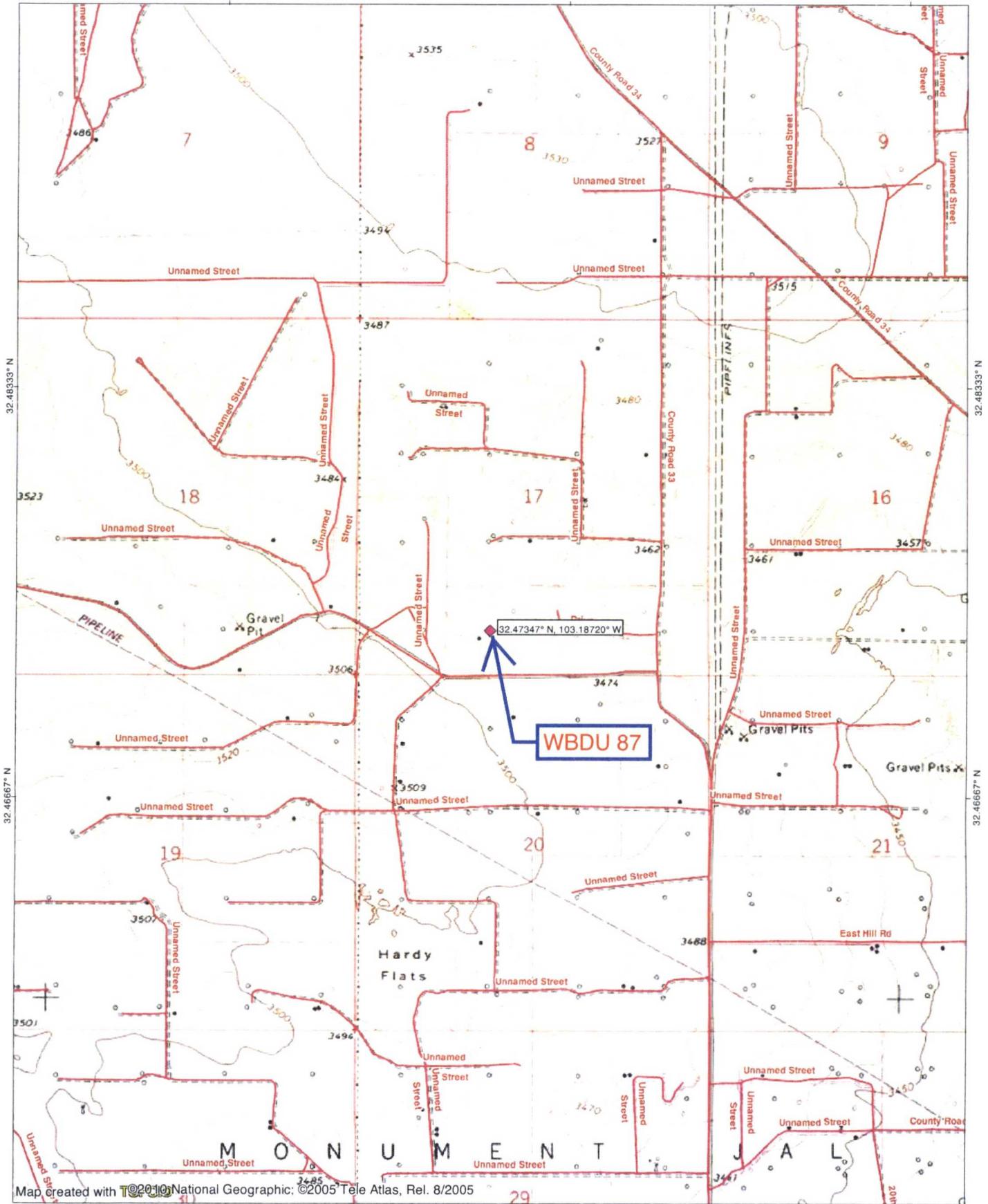


www.nmstatelands.org

103.20000° W

103.18333° W

WGS84 103.16667° W



32.48333° N

32.48333° N

32.46667° N

32.46667° N

Map created with National Geographic: ©2005 Tele Atlas, Rel. 8/2005

103.20000° W

103.18333° W

WGS84 103.16667° W

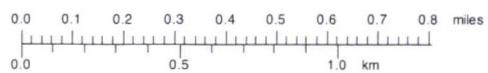


EXHIBIT A

TN 1 MN
6.5°
03/04/17

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

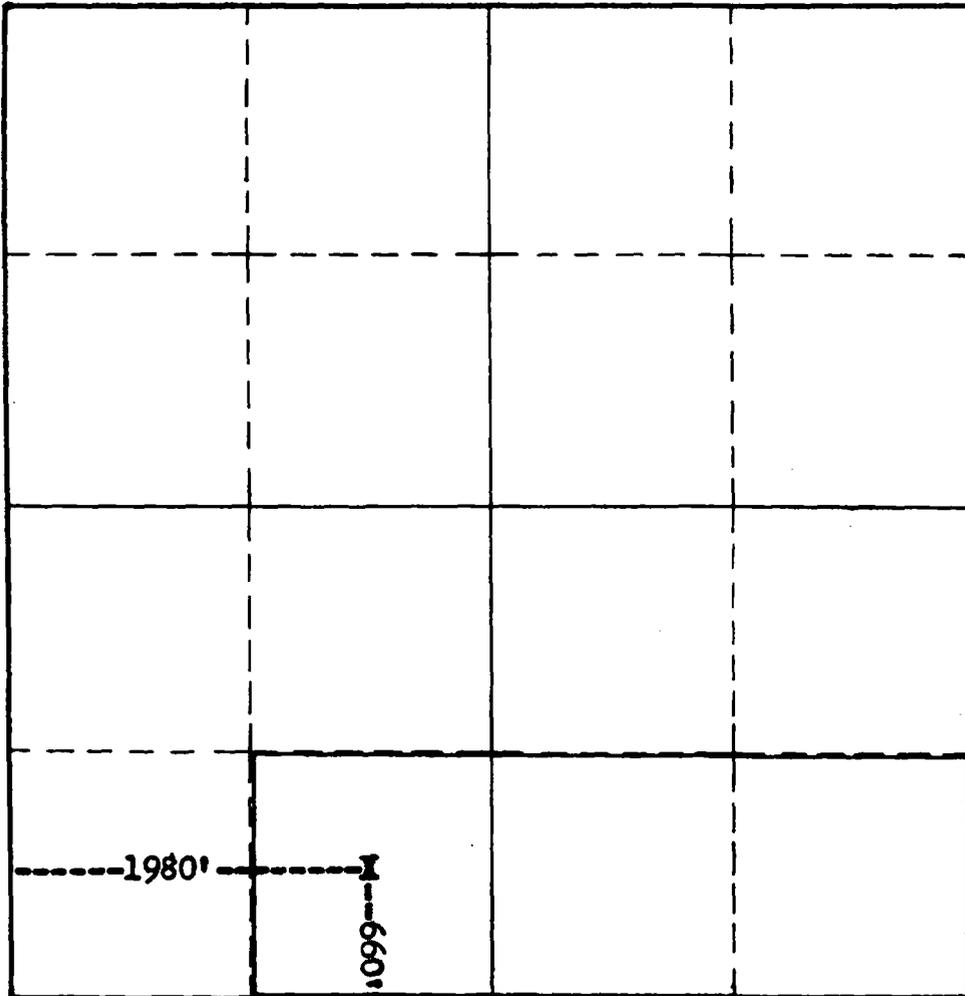
Date, June 9, 1958

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 1.30 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:

<u>Owner</u>	<u>Land Description</u>

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. Dixie
(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

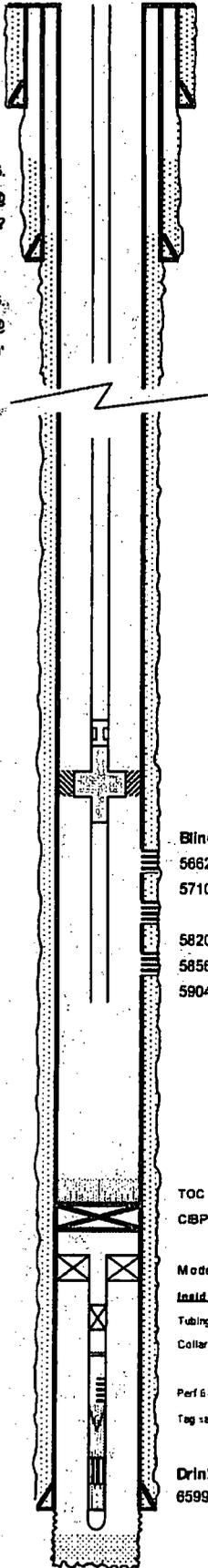
Apache Corporation
WBDU #87 (Hardy Blinebry Unit #3)
WELL DIAGRAM (CURRENT CONFIGURATION)



13-3/8" CSG.
CMT. CIRC. TO SURF.

8-5/8" CSG.
EST. CMT TOP @
?

5-1/2" CSG.
EST. CMT TOP @
5130'



Blinebry Perfs:
5662'-78'
5710'-22'
5820, 33, 45
5856, 65, 74, 88'
5904, 08, 18'

TOC @ 6443'
CBP @ 6480' w/ 2 SX
Model DPacker @ 6520'
Inside Tubing:
Tubing Plug @ 6542'
Collar Stop @ 6549'
Perf 6.576" w/ 2 holes (0.25")
Tag sand/Formseal @ 6576'

Drinkard OH:
6599'-6659'

PBTD 6443'
TD: 6659'

Tail Pipe (2" SUE pipe)
Baker Ring Gasket (2.25")
1JT (26.01')
1JT (26')
Seating nipple (11), 6576'
1JT (26')
Carrier Sleeve (2.48"), 6607'
1JT (22.28')
Bull Plug @ 6630'

WELL NAME: WBDU #87 (Hardy Blinebry Unit #3)		API: 30-025-06643	
LOCATION: 660' FSL & 1980' FwL. Unit C SE-SW, Sec 17, T-21S, R-37E		COUNTY: Lea Co., NM	
SPUD/TD DATE: 11/23/1949 - 1/4/1950		COMP. DATE: 1/8/1950	
PREPARED BY: Kris Hasselbach		DIAGRAM DATE: 12/19/2016	
TD (ft): 6659'	KB Elev. (ft): 3499'	KB to Ground (ft): 9'	
PBTD (ft): 6443'	Ground Elev. (ft): 3490'		
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE
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 TUBING STRING			
ITEM	DESCRIPTION	LENGTH (FT)	Depth (FT)
1	193 JTS 2-3/8" 4.7 LB/FT J-55 TBG		
2	TAC		5616.00
3	SN		6022.00
4			
5			
6			
7			
8			
9			
10			

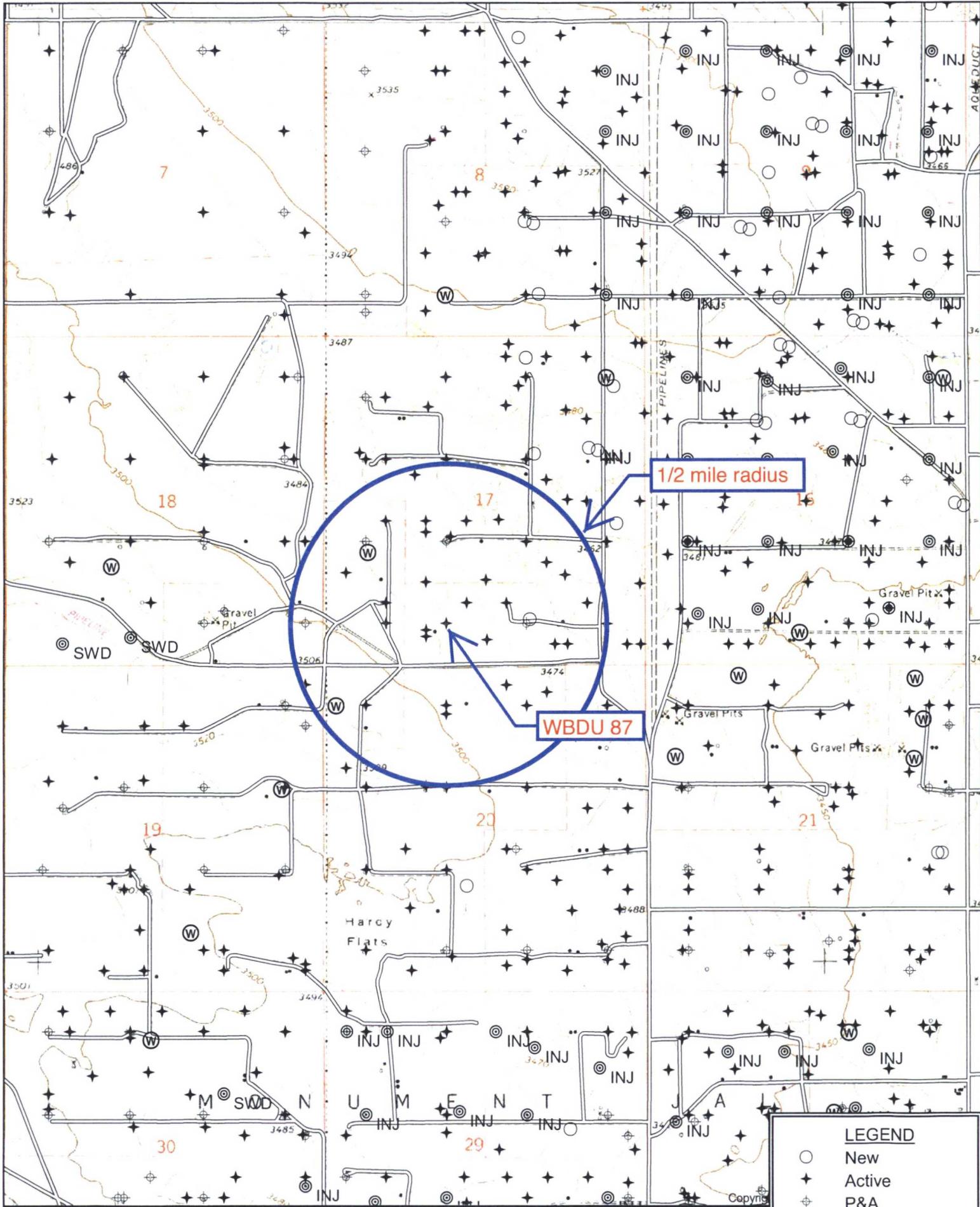
PRODUCTION ROD STRING			
ITEM	DESCRIPTION	LENGTH (FT)	Btm (FT)
1	113 JTS 7/8" RODS	2,825.00	
2	126 JTS 3/4" RODS	3,150.00	
3	BHP: 2" X 1-1/4" X 16' RHBC	16.00	
4			
5			
6			
7			
8			
9			
10			

SURFACE EQUIPMENT	
PUMPING UNIT SIZE:	MOTOR HP:
PUMPING UNIT MAKE:	MOTOR MAKE:

PERFORATIONS			
Form.	Intervals	FT	SPF
Blinebry	5662'-78', 5710'-5722'	16.12	4
	5820,33,45,56,65,74,88,5904,08,18'	9	1
DKRD (OH)	6599'-6659'		

Notes:
1/8/1950: Acidize Drinkard OH w/ 1000 gals 15% HCl
6/1958: 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



1/2 mile radius

WBDU 87

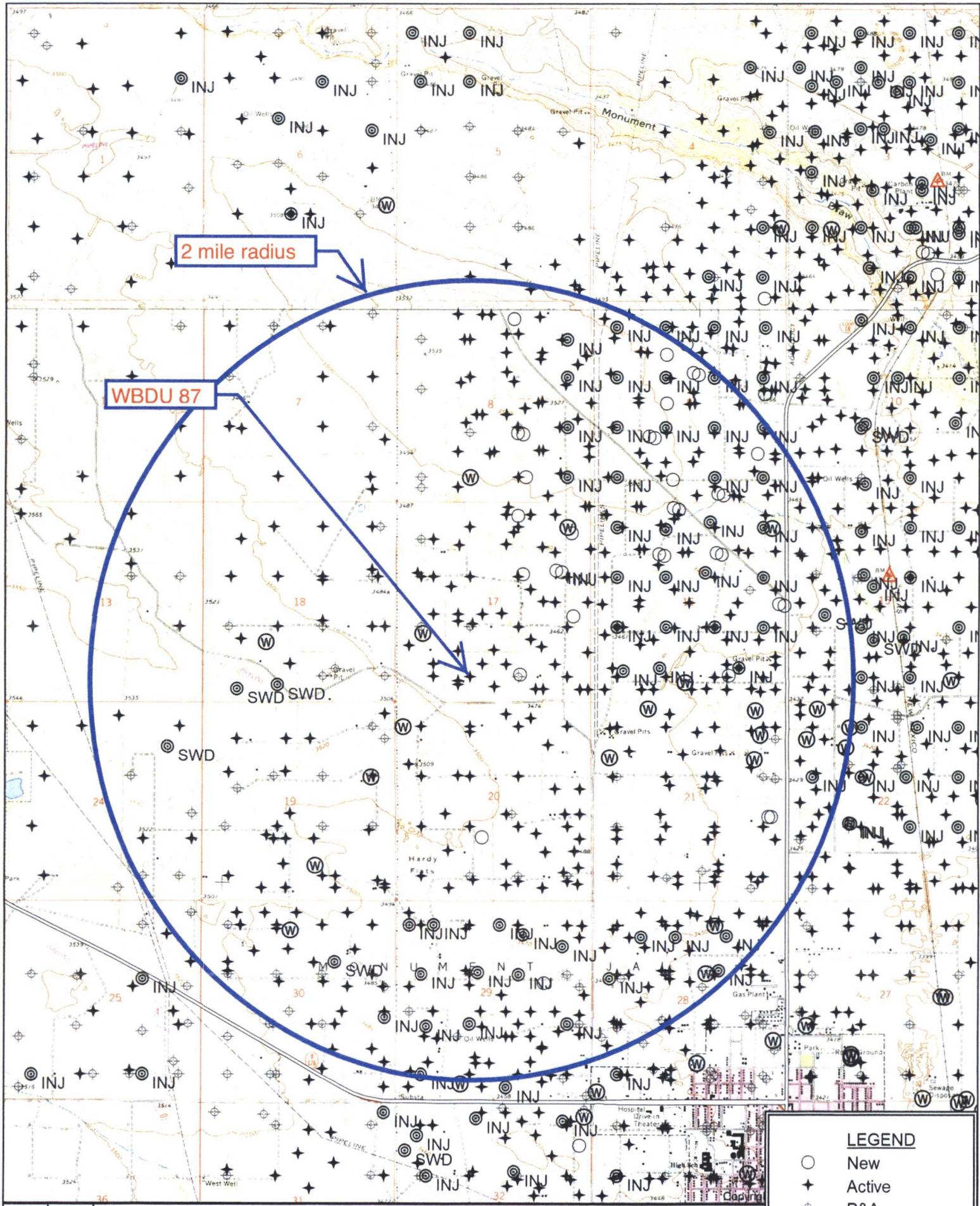
LEGEND

- New
- + Active
- ⊕ P&A
- ⊙ INJ
- ⊙ SWD
- ⊙ W Water



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

EXHIBIT C



2 mile radius

WBDU 87

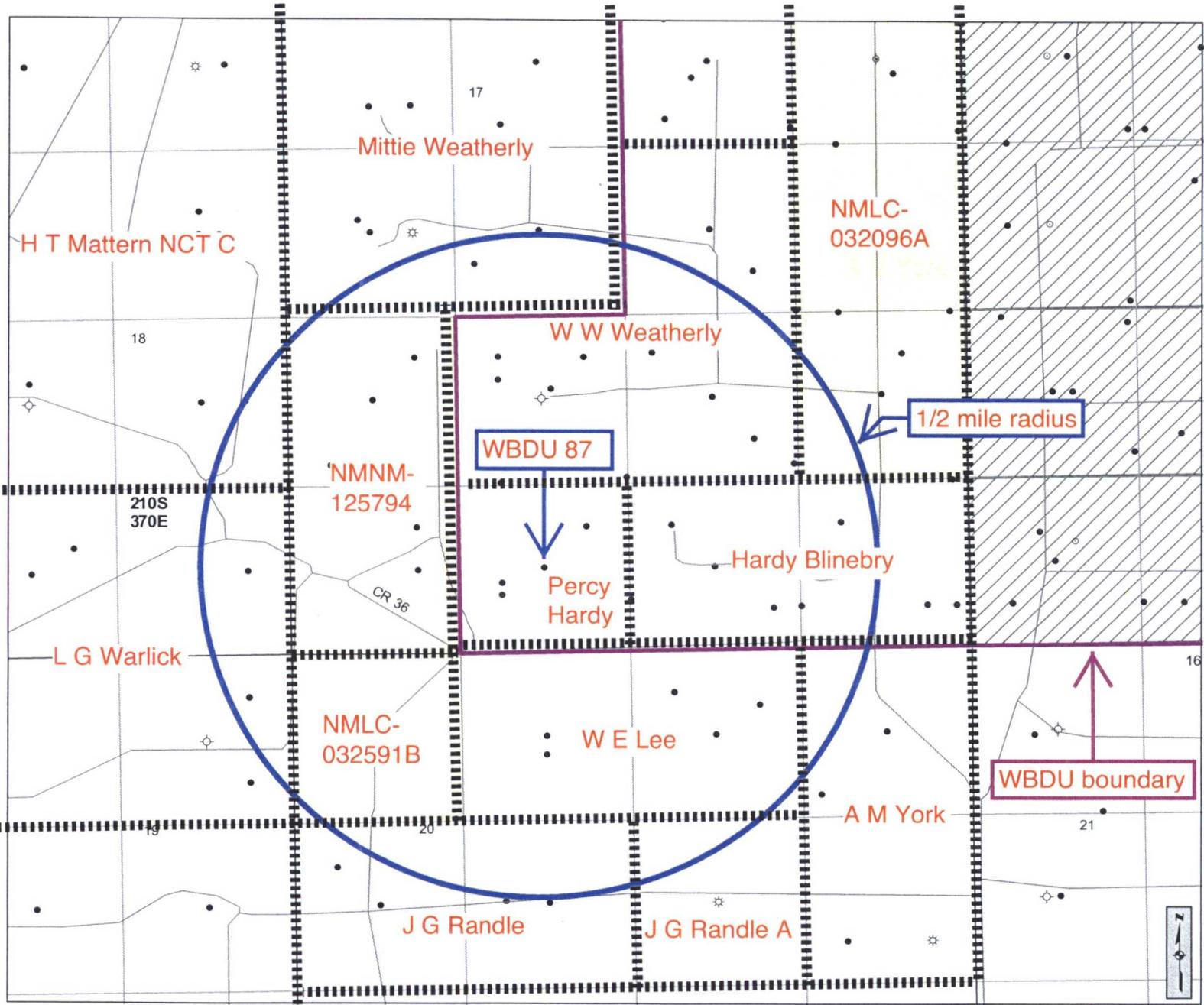
LEGEND

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



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

EXHIBIT D



- Cartographic Features**
- County Boundaries
 - County Seats
 - City, Town or Village
 - SLO District Offices
 - SLO District Boundary
 - Hwy Mileposts
 - Interstate
 - NM Hwy
 - US Hwy
 - Local Road
 - Continental Divide
- Federal Minerals Ownership**
- All Minerals
 - Coal Only
 - Oil and Gas Only
 - Oil, Gas and Coal Only
 - Other Minerals
- State Trust Lands**
- Surface Estate
 - Subsurface Estate
 - Surface and Subsurface Estate
- State Leases**
- Oil and Gas Leases
 - Agricultural Leases
 - Commercial Leases
 - Minerals Leases
 - Not Available for Oil and Gas Leasing
 - Oil and Gas Leasing Influenced by Restriction
- Oil and Gas Related Features**
- 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**
- CO₂
 - Injection
 - Oil
 - Water
 - Gas
 - Miscellaneous
 - Salt Water Disposal
 - DA or PA

New Mexico State Land Office
Oil, Gas and Minerals

0 0.05 0.1 0.2 0.3 0.4 Miles

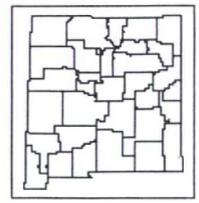
Universal Transverse Mercator Projection, Zone 13
 1983 North American Datum

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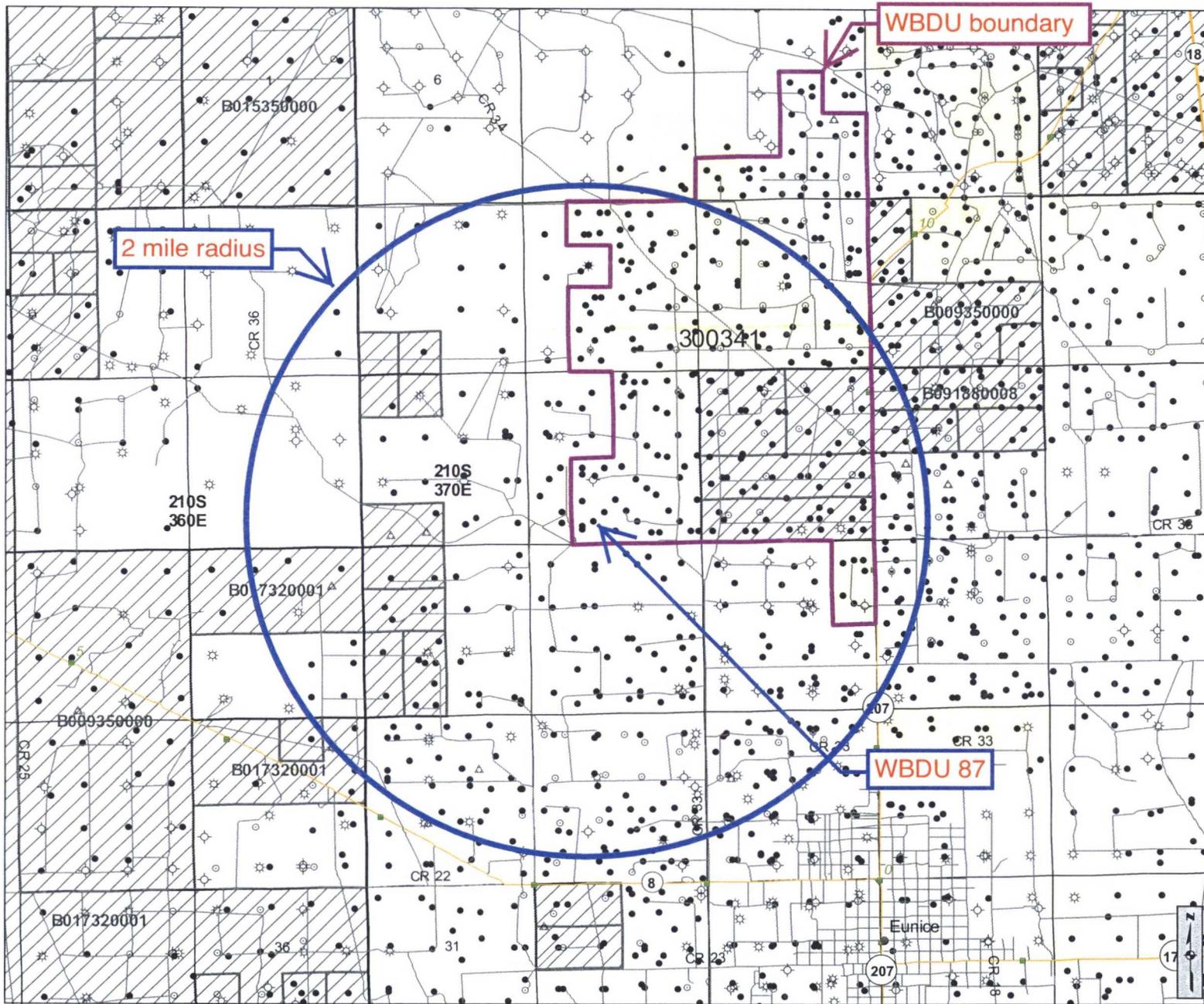
Land Office Geographic Information Center
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EXHIBIT E



www.nmstatelands.org



Cartographic Features

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

- CO₂
- Injection
- Oil
- Water
- Gas
- Miscellaneous
- Salt Water Disposal
- DA or PA

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EXHIBIT F



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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	Blinebry 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	Blinebry 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 Blinebry 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	Blinbry 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



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

Blinbry 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
 TOWNSHIP/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

perf @ 60'
 circ 50' sx
 to GL

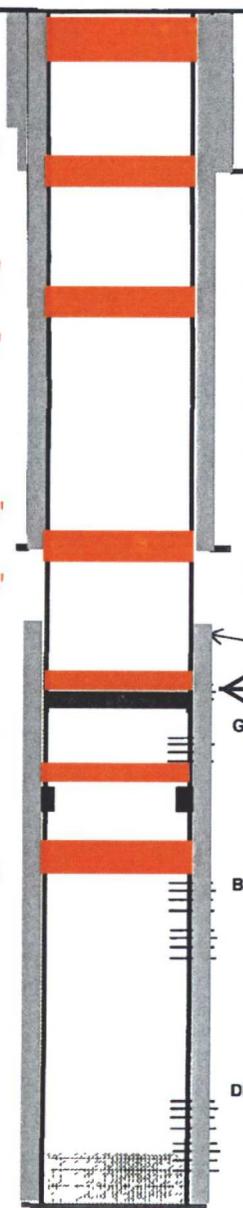
perf @ 357'
 saz 30 sx

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 @: _____
 Sks. Cmt.: 322'
 TOC @: _____
 Circ: Y/N. SURF
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, WD Rep, DS, 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 @: _____
 Sks. Cmt.: 2523'
 TOC @: _____
 Circ: Y/N: 900 SKS H
SURF
Y 75 SKS

TOC BY TS 2890'

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

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

Hole Size: 8 3/4"
 Csg. Size 7", 20, 23, 26# J-55 LT&C
 Set @: _____
 Sks. Cmt.: 6863'
 TOC @: _____
 Circ: Y/N: 550 SKS H +175 SKS THRU DV
2890' BY TS
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	DepthWell	DepthWater	Water Column
<u>CP00895</u> (Simms)		LE		1	1	20	21S	37E		669957	3593956*	570	163		
<u>CP00447</u> POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	713	95		
<u>CP00448</u> POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	713	100		
<u>CP01026</u> POD1 (Kerbo)		LE		1	1	3	17	21S	37E	669809	3594958	806	167	95	72
<u>CP00676</u>		LE		4	4	18	21S	37E		669548	3594352*	807	140	106	34
<u>CP00985</u> POD1	1 mile =	LE		4	4	2	19	21S	37E	669595	3593453	1186	160		
<u>CP01245</u> POD1	1610 meters	LE		1	4	3	18	21S	37E	668677	3594410	1678	220		
<u>CC01999</u> POD1		CU		3	3	2	29	03N	36E	670385	3592502	1862	415	372	43
<u>CP00446</u> POD1		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2484	185	148	37
<u>CP00446</u> POD2		CP	LE	1	4	4	13	21S	36E	667871	3594424*	2484	200	151	49
<u>CP00554</u>		LE		2	2	16	21S	37E		672744	3595610*	2693	80	70	10
<u>CP00729</u> POD1		CP	LE	4	1	3	15	21S	37E	673259	3594711*	2924	8015		
<u>CP00513</u> POD1		CP	LE	3	1	3	28	21S	37E	671508	3591467*	3118	5000	4374	626
<u>CP01575</u> 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

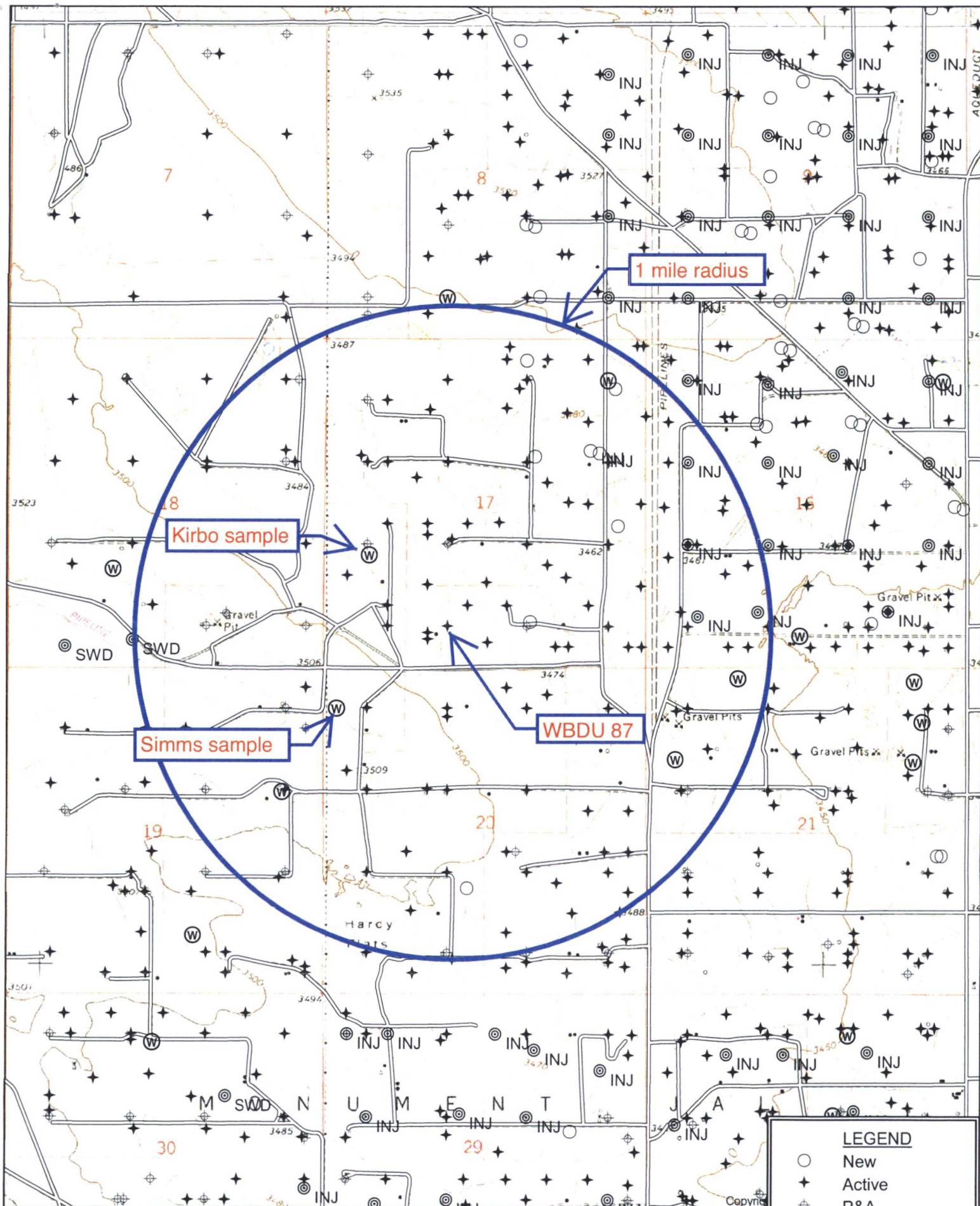
*UTM location was derived from PLSS - see Help

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





1 mile radius

Kirbo sample

Simms sample

WBDU 87

LEGEND	
○	New
+	Active
⊕	P&A
⊙	INJ
⊗	SWD
⊕	Water



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

EXHIBIT I

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: WBDU Simms Tank

Project: Apache WBDU SWD #87

Collection Date: 3/12/2017 2:37:00 PM

Lab ID: 1703735-001

Matrix: AQUEOUS

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

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



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
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	51	10		mg/L	20	3/14/2017 11:36:27 PM
EPA METHOD 1664B						Analyst: tnc
N-Hexane Extractable Material	ND	10.2		mg/L	1	3/17/2017
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
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.
- 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



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
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- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
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- 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



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703735

28-Mar-17

Client: Permits West
Project: Apache WBDU SWD #87

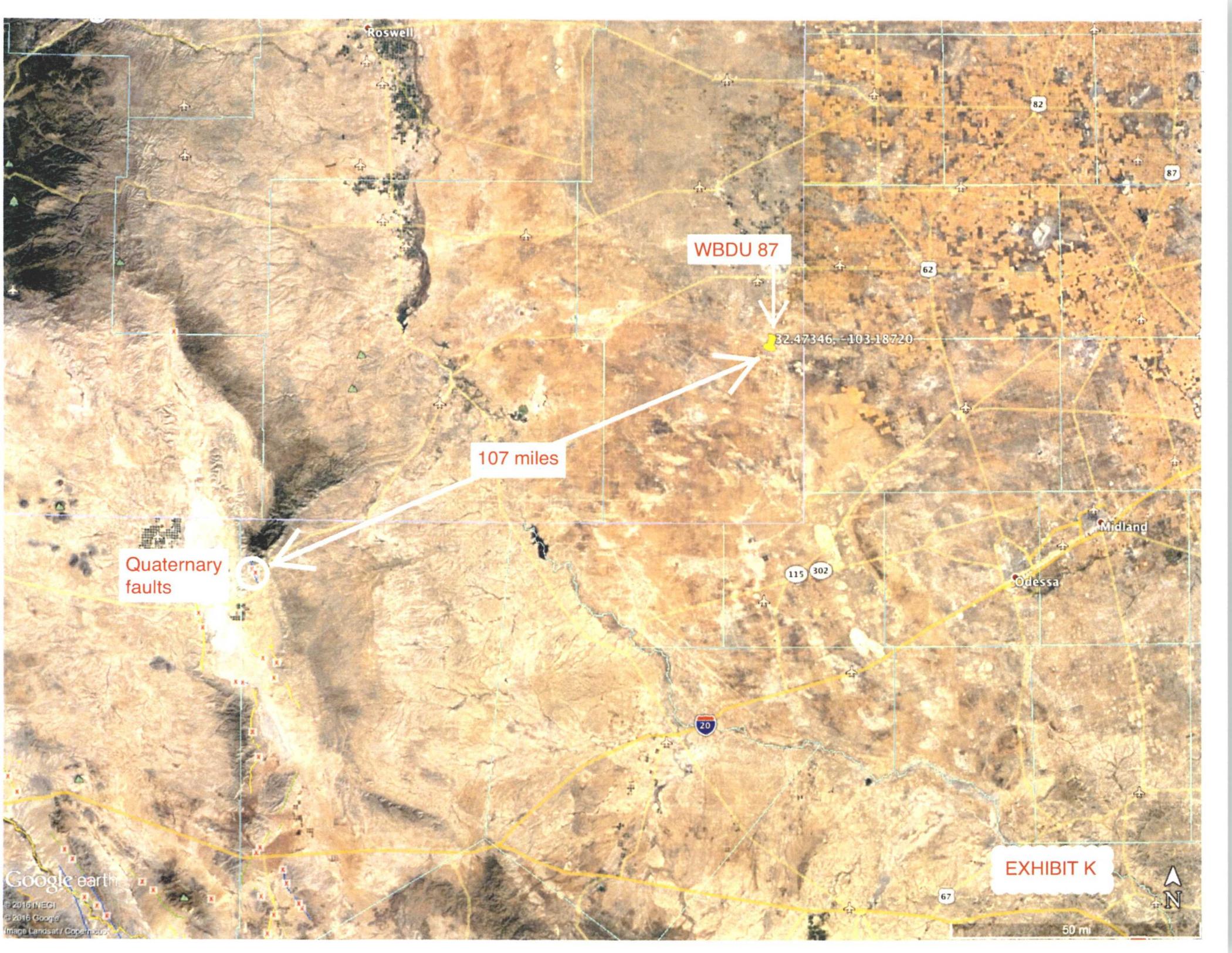
Sample ID: MB-30731	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 30731	RunNo: 41476								
Prep Date: 3/16/2017	Analysis Date: 3/17/2017	SeqNo: 1300323	Units: mg/L							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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
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- W Sample container temperature is out of limit as specified





Roswell

WBDU 87

32.47346, -103.18720

107 miles

Quaternary faults

Midland

Odessa

EXHIBIT K

Google earth

© 2016 INEGI
© 2016 Google
Image Landsat / Copernicus

50 mi



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
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 | [LinkedIn](#) | [Facebook](#) | [Twitter](#) | [StockTwits](#) | [YouTube](#)



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.



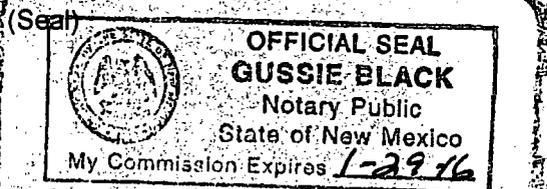
Publisher

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 Blinebry 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

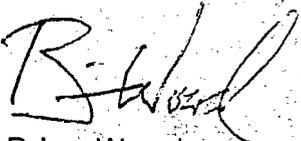
Apache Corporation is applying (see attached application) to deepen its West Blinebry Drinkard Unit 87 oil well and convert it to a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice 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

Submission 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



OFFICIAL USE

Certified Mail Fee	\$
Extra Services & Fees (check box)	\$
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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	\$

COS
MAR 29 2017
87552-9996
Chevron USA Inc

Sent To	PO Box 28
Street and Apt. No., or P.O. Box No.	Houston TX 77001
City, State, ZIP+4 [®]	Apache WBDU 87

EXHIBIT M

March 29, 2017

ConocoPhillips Co.
PO Box 7500
Bartlesville OK 74005

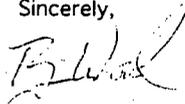
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Please call me if you have any questions.

Sincerely,



Brian Wood

March 29, 2017

Chevron USA Inc.
6301 Deaúville
Midland TX 79706

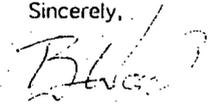
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Please call me if you have any questions.

Sincerely,



Brian Wood

U.S. Postal Service
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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

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Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **Conoco Phillips Co.**
PO Box 7500
Bartlesville OK 74005
Apache WBDU 87

Postmark: **PECOS NM**
MAR 29 2017
87552-9998

EXHIBIT M

2017 9706 0122 0000 2152 9201

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Extra Services & Fees (check box, add fee as appropriate)

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Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

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Sent To **Chevron USA Inc.**
6301 Deaúville
Midland TX 79706
Apache WBDU 87

Postmark: **PECOS NM**
MAR 29 2017
87552-9998

March 29, 2017

Six Aeches Co.
 902 Country Club
 Midland TX 79701

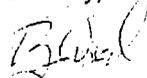
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Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT M

March 29, 2017

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

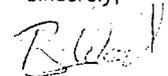
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Please call me if you have any questions.

Sincerely,



Brian Wood

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

Certified Mail Fee \$

Extra Services & Fees (check box, add fee if appropriate)
 Return Receipt (hardcopy) \$
 Return Receipt (electronic) \$
 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To: **Six Aeches Co.
 902 Country Club
 Midland TX 79701
 Apache WBDU 87**

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

PECOS NM
 MAR 29 2017
 87552-9998

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

Certified Mail Fee \$

Extra Services & Fees (check box, add fee if appropriate)
 Return Receipt (hardcopy) \$
 Return Receipt (electronic) \$
 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To: **Conoco Phillips Co.
 600 N. Dairy Ashford Rd
 Houston TX 77079
 Apache WBDU 87**

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

PECOS NM
 MAR 29 2017
 87552-9998

7016 2710 0000 2518 1047

March 29, 2017

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

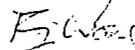
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Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submission 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

March 29, 2017

Mitchell Brown Properties Inc.
PO Box 5562
Midland TX 79704

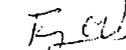
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Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submission 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
Domestic Mail Only

7016 2710 0000 0122 9100

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To
Sandridge Expl. Prod. LLC
123 Robert S. Kerr Ave
Oklahoma City OK 73102
Apache WBDU 87

City, State, ZIP+4®

PECCS NM
MAR 29 2017
552-9998

EXHIBIT M

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

7016 2710 0000 0122 9100

For delivery information visit our website at www.usps.com

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

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

City, State, ZIP+4®

PECCS NM
MAR 29 2017
552-9998

March 29, 2017

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

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
Domestic Mail Only

PECOS NM
MAR 29 2017
87552-9998

EXHIBIT M

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

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 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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Please call me if you have any questions.

Sincerely,

Brian Wood

U.S. Postal Service
CERTIFIED MAIL RECEIPT
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 USE

March 29, 2017

Upland Production Company
PO Box 1327
Edmond OK 73083

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

Submission 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

PERMITS WEST, INC.

PROVIDING PERMITS FOR LAND USE

March 29, 2017

BLM
620 E. Greene
Carlsbad NM 88220

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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Please call me if you have any questions.

Sincerely,

Brian Wood

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

For delivery information, visit www.usps.com

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To: Upland Production Co.
PO Box 1327
Edmond OK 73083
Apache WBDU 87

PECOS NM
MAR 29 2017

EXHIBIT M

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

For delivery information, visit www.usps.com

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To: BLM
620 E. Greene
Carlsbad NM 8220
Apache WBDU 87

PECOS NM
MAR 29 2017

7016 2710 0000 2518 0989

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Chevron USA Inc.
PO Box 285
Houston TX 77001

9590 9402 2329 6225 4759 24
Apache - WBDU 87

2. Article Number (Transfer from service label)
7016 2710 0000 2518 1054

COMPLETE THIS SECTION ON DELIVERY

A. Signature *[Signature]* Agent Addressee

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

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

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Mail Restricted Delivery (over \$500)
 - 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:

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature *[Signature]* Agent Addressee

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

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

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Mail Restricted Delivery (over \$500)
 - 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

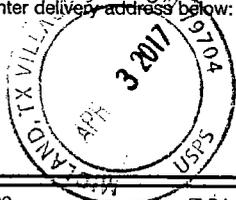
COMPLETE THIS SECTION ON DELIVERY

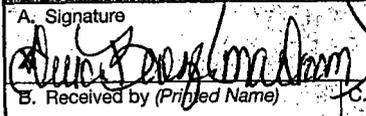
A. Signature *[Signature]* Agent Addressee

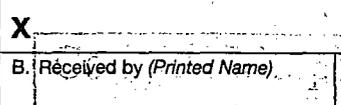
B. Received by (Printed Name) C. Date of Delivery

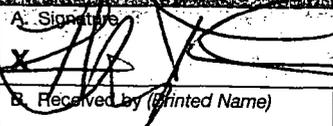
D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted 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												
<ul style="list-style-type: none"> 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. 	<p>A. Signature  <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p>												
<p>1. Article Addressed to:</p> <p>Chevron Midcontinent, L. P. 6301 Deauville Midland TX 79706</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>												
<p>9590 9402 2329 6225 4760 06</p> <p>Apache - WBDU 87</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table>	<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
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®												
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<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												
<p>2. Article Number (Transfer from service label)</p> <p>7016 2710 0000 2518 0965</p>	<p>Restricted Delivery</p>												
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>													

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY												
<ul style="list-style-type: none"> 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. 	<p>A. Signature  <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p>												
<p>1. Article Addressed to:</p> <p>ConocoPhillips Co. PO Box 7500 Bartlesville OK 74005</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Mail Sent Via Bartlesville, OK</p> </div>												
<p>9590 9402 2329 6225 4759 48</p> <p>Apache - WBDU 87</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table>	<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
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®												
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<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												
<p>2. Article Number (Transfer from service label)</p> <p>7016 2710 0000 2518 1030</p>	<p>Restricted Delivery</p>												
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>													

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY												
<ul style="list-style-type: none"> 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. 	<p>A. Signature  <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p>												
<p>1. Article Addressed to:</p> <p>ConocoPhillips Co. 600 N. Dairy Ashford Rd. Houston TX 77079</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>												
<p>9590 9402 2329 6225 4759 55</p> <p>Apache - WBDU 87</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table>	<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
<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												
<p>2. Article Number (Transfer from service label)</p> <p>7016 2710 0000 2518 1047</p>	<p>Restricted Delivery</p>												
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>													

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Sandridge 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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Quincy Brown* Agent
 Addressee

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

Quincy Brown

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



3. Service Type

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Sheridan 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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* Agent
 Addressee

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

[Signature] 4-3

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

3. Service Type

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Six 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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* Agent
 Addressee

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

MICHAEL HEDRICK 4-1-17

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

3. Service Type

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

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:

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)

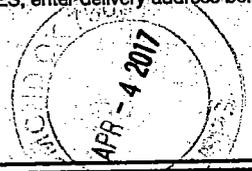
7016 2710 0000 2518 0972

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X *[Handwritten Signature]* Agent Addressee

B. Received by (Printed Name): Ken [Handwritten] C. Date of Delivery

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



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

Restricted Delivery

Domestic Return Receipt

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

ORDER TYPE: WFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: 12-2581

Well No. _____ Well Name(s): WBD4 87

API: 30-0 25-06643 Spud Date: 7-23-1998 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-Tu-Dr 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: 5-03-2011

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) Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>12 1/2 / 13 3/4</u>	<u>154</u>	<u>200</u>	<u>Surface / Visual</u>
Planned ___ or Existing ___ Interm/Prod	<u>11 3/4 / 8 9/8</u>	<u>2878</u>	<u>1500</u>	<u>unknown / CBL</u>
Planned ___ or Existing ___ Interm/Prod	<u>7 7/8 / 5 1/2</u>	<u>5130</u>	<u>300</u>	<u>unknown / CBL</u>
Planned ___ or Existing ___ Prod/Liner	<u>5 1/2 / 4 1/2 / A</u>	<u>6809</u>	<u>252</u>	
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ OH / PERF	<u>64x26753</u>			

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-PA Noticed? _____ BLM Sec Ord WIPP Noticed? NA Salt/Salado T: 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): 2.94/13K 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, 2011 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