

ABOVE THIS LINE FOR DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A] Apache Corporation (OGRID 873)
 [A] Location - Spacing Unit - Simultaneous Dedication West Blinberry Drinkard Unit
☐ NSL ☐ NSP ☐ SD 38, 39, & 42 30-025-20178
 Eunice; BLI-TU-DR, North (22900)
- Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 X WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
 amend WFX-958
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
 [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] X Offset Operators, Leaseholders or Surface Owner
 [C] X Application is One Which Requires Published Legal Notice
 [D] X Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] X For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

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

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

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

Brian Wood

Print or Type Name

(505) 466-8120

Signature

Consultant

Title

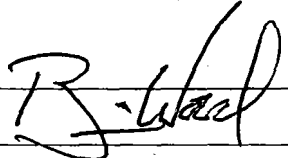
brian@permitswest.com

e-mail Address

2-17-17

Date

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 AMEND WFX-958
If yes, give the Division order number authorizing the project: R-12981 et al
- 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.
- VII. Attach data on the proposed operation, including: WEST BLINEBRY DRINKARD UNIT 38, 39, & 42
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: BRIAN WOOD  TITLE: CONSULTANT
SIGNATURE: _____ DATE: FEB. 16, 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

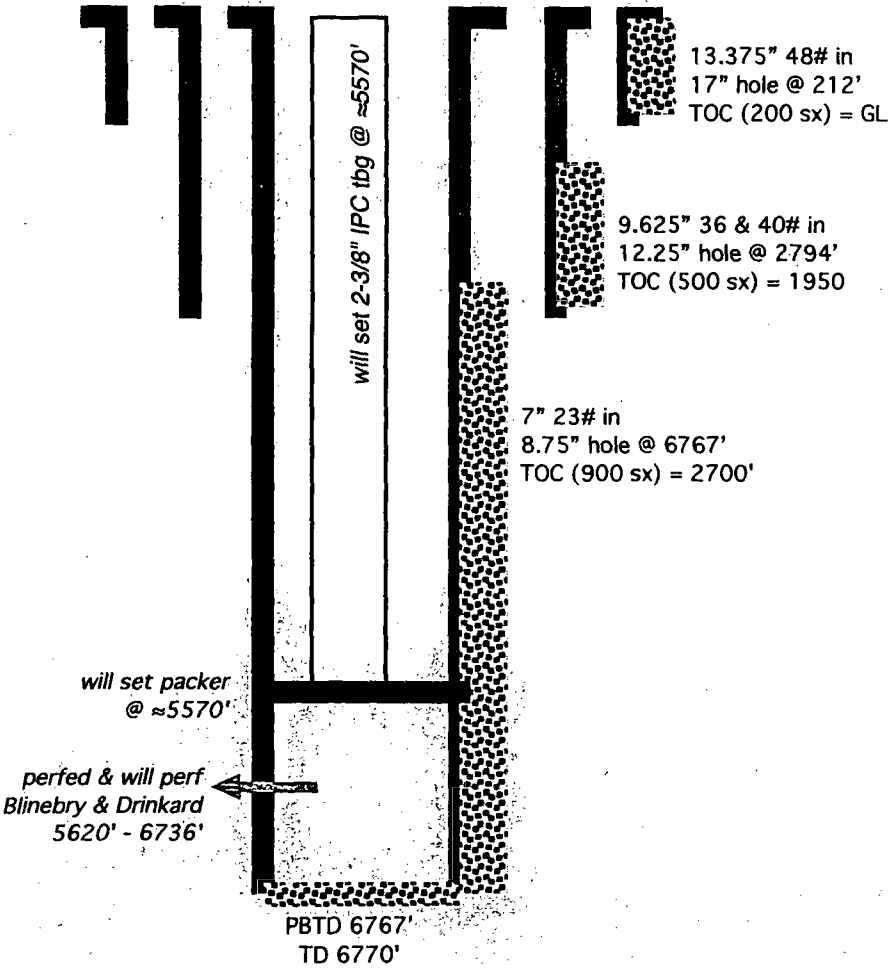
OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 38

WELL LOCATION: 660' FSL & 1980' FEL O 9 21 S 37 E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

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

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"
Cemented with: 500 sx. or _____ ft³
Top of Cement: 1950 Method Determined: TEMP. SURV.

Production Casing

Hole Size: 8-3/4" Casing Size: 7"
Cemented with: 900 sx. or _____ ft³
Top of Cement: 2700 Method Determined: TEMP. SURV.
Total Depth: 6770'

Injection Interval

5620' feet to 6736'

(Perforated or Open Hole; indicate which)
.....

INJECTION WELL DATA SHEET

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

Type of Packer: LOCK SET INJECTION

Packer Setting Depth: ≈5570'

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 (5620' - 6042') WAS PARTIALLY SQUEEZED W/ 500 SX

DRINKARD (6423' - 6736') ACTIVE PERFS

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

OVER: GRAYBURG (≈3723'), SAN ANDRES (≈4011')

UNDER: ABO (6737'), FUSSELMAN (7300')

INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

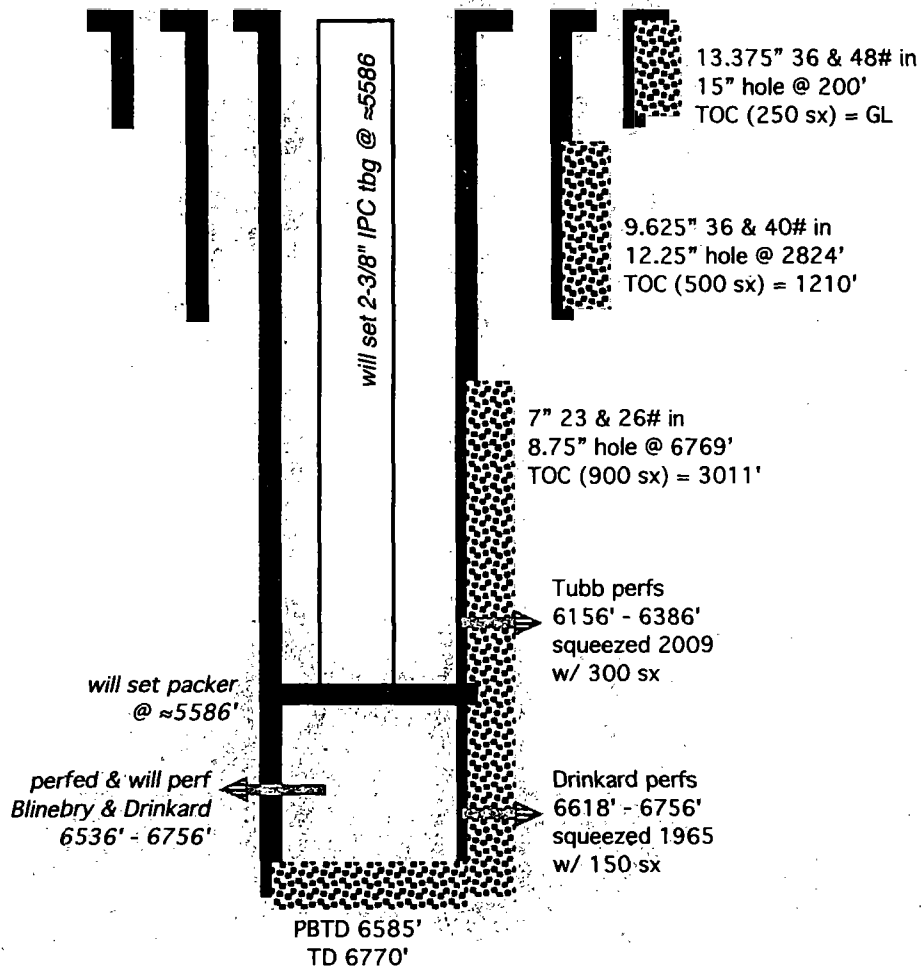
WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 39

WELL LOCATION: 660' FSL & 660' FWL M 9 21 S 37 E

FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 15" Casing Size: 13.375"

Cemented with: 250 sx. or _____ ft³

Top of Cement: GL Method Determined: CIRCULATED

Intermediate Casing

Hole Size: 12.25" Casing Size: 9.625"

Cemented with: 500 sx. or _____ ft³

Top of Cement: 1210' Method Determined: TEMP. SURV.

Production Casing

Hole Size: 8.75" Casing Size: 7"

Cemented with: 750 sx. or _____ ft³

Top of Cement: 3011' Method Determined: TEMP. SURV.

Total Depth: 6770'

Injection Interval

5636' feet to 6756'

(Perforated or Open Hole; indicate which)
.....

INJECTION WELL DATA SHEET

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

Type of Packer: LOCK SET INJECTION

Packer Setting Depth: ≈5586'

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 (5634' - 6058') WAS PARTIALLY SQUEEZED W/ 500 SX
TUBB (6156' - 6386') WAS SQUEEZED IN 2009 W/ 300 SX
DRINKARD ACTIVE (6506' - 6583') & SQUEEZED W/ 150 SX (6618' - 6756')

- 5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____
OVER: GRAYBURG (≈3745'), SAN ANDRES (≈4052')

UNDER: ABO (6767'), FUSSELMAN (≈7300')

INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATIONWELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 42

WELL LOCATION: 1980' FSL & 660' FEL I 9 21 S 37 E
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

(not to scale)

WELL CONSTRUCTION DATASurface CasingHole Size: 12.25" Casing Size: 9.625"Cemented with: 450 sx. *or* _____ ft³Top of Cement: GL Method Determined: CIRCULATEDIntermediate Casing

Hole Size: _____ Casing Size: _____

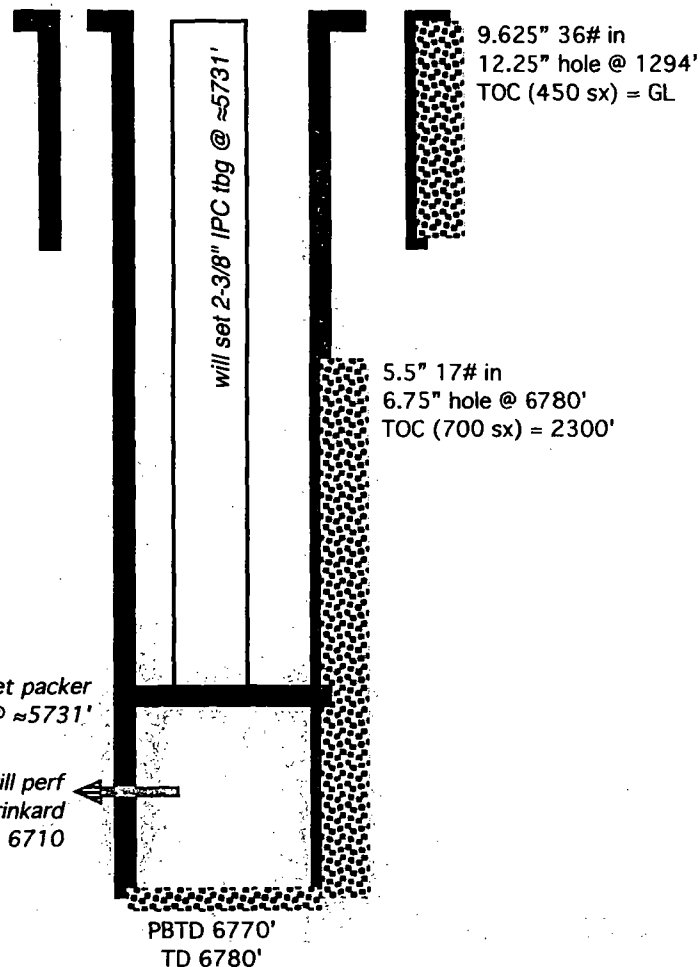
Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Production CasingHole Size: 6.75" Casing Size: 5.5"Cemented with: 700 sx. *or* _____ ft³Top of Cement: 2300' Method Determined: TEMP. SURV.Total Depth: 6780'Injection Interval5781' feet to 6710'

(Perforated or Open Hole; indicate which)

.....



INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COAT
Type of Packer: LOCK SET INJECTION
Packer Setting Depth: ≈5731'
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 (5781' - 6043') WAS PARTIALLY SQUEEZED W/ 500 SX
DRINKARD (6582' - 6710') ACTIVE
- 5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____
OVER: GRAYBURG (3740'), SAN ANDRES (3958')

UNDER: ABO (6727'), FUSSELMAN (≈7300')

APACHE CORPORATION**PAGE 1****WEST BLINEBRY DRINKARD UNIT 38, 39, & 42****SEC. 9, T. 21 S., R. 37 E.****LEA COUNTY, NM****amendment to WFX-958**

I. Goal is to change the injection interval of 3 existing water injection wells to allow the packer to be set above leaky squeezed Blinebry perms. The wells started injecting into the Blinebry in 2009. Apache received approval (WFX-958) in 2016 to squeeze the Blinebry and inject into the Drinkard. The subsequent squeeze jobs were not fully successful (Exhibit A). If approved, the majority of the water will be injected into the Drinkard, but some will go into the Blinebry.

Both the Blinebry and Drinkard are part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900). Wells and zones are part of the West Blinebry Drinkard Unit (Cases 14125 and 14126, both Order Number R-12981), formed in 2008 by Apache. Injection in these three wells was first authorized in the original 2008 order. WFX-958 authorized changes in the Drinkard interval.

WBDU Well	API	9-21s-37e	injection interval	proposed packer setting depth	PBTD TD
38	30-025-09906	660 FSL & 1980 FEL	5620 - 6736	≈5570	6767 6770
39	30-025-06441	660 FSL & 660 FWL	5636 - 6756	≈5586	6760 6770
42	30-025-20178	1980 FSL & 660 FEL	5781 - 6710	≈5731	6770 6780

II. Operator: Apache Corporation (OGRID #873)
Operator phone number: (432) 818-1062
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) Unit Size: 2480 acres Unit Numbers: 300341 & NMNM-120042X
Unit Area (Exhibit B): T. 21 S., R. 37 E.
Section 4: Lot 15, S2SW4, & SE4
Section 8: E2, NENW, & E2SW

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Sections 9 & 16: all
 Section 17: E2 & E2SW4
 Section 21: E2NE4

Well	BLM Lease	closest lease boundary	closest unit boundary
38	NMNM-090161	660'	1980'
39	NMNM-090161	660'	3365'
42	NMNM-090161	660'	660'

A. (2) Current casing and cement conditions (Exhibit C) are:

well and casing O. D.	pounds per foot	depth set	hole O. D.	cement sacks	TOC	how TOC determined
WBDU 38						
13.375"	48	212'	17"	200	GL	circ.
9.625"	36/40	2794'	12.25"	500	1950	temp. surv.
7"	23	6767'	8.75"	900	2700	temp. surv.
WBDU 39						
13.375"	36/48	200'	15"	250	GL	circ.
9.625"	36/40	2824'	12.25"	500	1210	temp. surv.
7"	23/26	6769'	8.75"	750	3011	temp. surv.
WBDU 42						
9.625"	36	1294'	12.25"	450	GL	circ.
5.5"	17	6780'	6.75"	700	2300	temp. surv.

A. (3) Tubing will be internally plastic coated 2-3/8", J-55, 4.7#.

A. (4) Arrow-set 2-3/8" nickel-plated packers will be set as follows:

	perfs	proposed packer & tubing setting depth
WBDU 38	5620-6736	≈5600'
WBDU 39	5636-6756	≈5600'
WBDU 42	5781-6710	≈5700'

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- B. (1) Injection zones will be the Blinebry and Drinkard carbonates. Those zones are part of the Eunice; Blinebry-Tubb-Drinkard, North Pool. Estimated fracture gradient is ≈ 0.56 psi per foot.
- B. (2) Wells are cased holes. Perforated zones will be Blinebry and Drinkard and intervals will be: #38 = 5620' - 6736', #39 = 5636' - 6756', and #42 = 5781' - 6710'.
- B. (3) Wells were originally drilled and completed as oil wells in 1948 (#38), 1949 (#39), and 1963 (#42). They were converted to water injection wells in 2009 under R-12981.
- B. (4) See table below for perforation and isolation histories.

well	current perfs	status	zone	proposed perfs (Blinebry & Drinkard)
38	5620' - 6042'	Semi-active	Blinebry	5620' - 6736'
	6423' - 6736'	active	Drinkard	
39	5636' - 6058'	Semi-active	Blinebry	5636' - 6756'
	6156' - 6386'	squeezed	Tubb	
	6506' - 6583'	active	Drinkard	
	6618' - 6756'	squeezed	Drinkard	
42	5781' - 6043'	Semi-active	Blinebry	5781' - 6710'
	6582' - 6710'	active	Drinkard	

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- B. (5) Next higher oil or gas zone in the area of review is the Hare; San Andres, East (96601). San Andres bottom is at $\approx 5186'$. Next lower oil or gas zone in the area of review is the Wantz; Abo (62700). Abo top ranges from 6727' (#42) to 6767' (#39). (Abo will not be perforated. However, it will be penetrated to allow for better logging.)

IV. This is not a horizontal or vertical expansion of an existing injection project. The case file for the unit approval (R-12981) describes the water flood. There have been over a dozen water flood expansion approvals since then.

V. Exhibit D shows all 124 existing or proposed wells (102 oil or gas wells + 19 water injection wells + 3 P&A wells) in the areas of review, regardless of depth. Exhibit E shows all 923 existing wells (662 oil or gas wells + 122 injection or disposal wells + 108 P & A wells + 30 water wells + 1 brine well) within the 2-mile radii.

Exhibit E shows all leases (only BLM, State, and fee) within a half-mile radius. Exhibit G shows all lessors (only BLM, State, and fee) within a two-mile radius. Apache is the Drinkard operator of all dedications within $\frac{1}{2}$ mile of each well. Details on the leases within a half-mile are:

Aliquot Parts in #38 Area of Review (T 21 S, R 37 E)	Lessor	Lease	Lessee(s) of Record
S2NE4 Sec. 9	fee	Southland Royalty A	Apache
SE4 Sec. 9	BLM	NMNM-090161	Apache & Chevron
W2SW4 Sec. 10	SLO	B0-0935-0000	ExxonMobil
NWNW Sec. 15	SLO	B0-9188-0008	Chevron
NE4 Sec. 16	SLO	B0-1732-0001	Chevron
E2NW4 & NWNW Sec. 16	SLO	B0-1557-0001	Occidental
		B0-1557-0002	Apache

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Aliquot Parts in #39 Area of Review (T 21 S, R 37 E)	Lessor	Lease	Lessee(s) of Record
SENE Sec. 8	BLM	NMLC-031741A	Apache, Chevron, & ConocoPhillips
SE4 Sec. 8	BLM	NMNM-090161	Apache & Chevron
SWNW Sec. 9	BLM	NMLC-031741A	Apache, Chevron, & ConocoPhillips
SENE, SW4, & W2SE4 Sec. 9	BLM	NMNM-090161	Apache & Chevron
NWNE Sec. 16	SLO	B0-1732-0001	Chevron
NW4 Sec. 16	SLO	B0-1557-0001	Occidental
		B0-1557-0002	Apache
E2NE4 Sec. 17	BLM	NMLC-032096A	Apache & Chevron
NENW Sec. 17	fee	Mittie Weatherly	Chevron

Aliquot Parts in #42 Area of Review (T 21 S, R 37 E)	Lessor	Lease	Lessee(s) of Record
NE4 Sec. 9	fee	Southland Royalty A	Apache
SENE, E2SW4, & SE4 Sec. 9	BLM	NMNM-090161	Apache & Chevron
W2NW4 Sec. 10	SLO	B1-1349-0000	ConocoPhillips
		B1-1349-0001	Apache
SENE Sec. 10	BLM	NMNM-002512	Apache & Chevron
SW4 Sec. 10	SLO	B0-0935-0000	ExxonMobil
NWNW Sec. 15	SLO	B0-9188-0008	Chevron
N2NE4 Sec. 16	SLO	B0-1732-0001	Chevron

VI. One hundred twenty-four existing or proposed wells (Exhibit H) are in the areas of review. Eight-four of those wells penetrated or will penetrate the Blinebry (top $\geq 5657'$). Tables abstracting the well construction details and histories of the penetrators are in Exhibit I. Two of the 3 P&A wells in the areas of review penetrated the Blinebry.

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- VII. 1. Average injection rate will be $\approx$ 2500 bwpd per well.
Maximum injection rate will be $\approx$ 3000 bwpd per well.
2. System will be closed. The wells are tied into the existing unit pipeline system. The system 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 $\approx$ 4000' 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 44,427,829 barrels that have been injected to date in the unit since 2009.

	WBDU Injection Pump Discharge	San Andres 919-S
Anion/Cation Ratio	1.0	N/A
Barium	0.1 mg/l	0.38 mg/l
Bicarbonate	671.0 mg/l	562.0 mg/l
Calcium	1,099.0 mg/l	608.0 mg/l
Carbon Dioxide	80.0 ppm	80.0 ppm
Chloride	10,086.0 mg/l	6,200.0 mg/l
Hydrogen Sulfide	90.0 ppm	408.0 ppm
Iron	0.3 mg/l	0.0 mg/l
Magnesium	439.0 mg/l	244.0 mg/l
Manganese	N/A	0.01 mg/l
pH	7.5	6.49
Potassium	115.0 mg/l	N/A
Sodium	5,799.5 mg/l	3,909.0 mg/l
Strontium	28.0 mg/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

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 LEA COUNTY, NM

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amendment to WFX-958

5. Apache currently has 124 active or new oil wells and 41 active or new injection wells in the unit. It is the goal of the project to increase production.

VIII. The Unit is on the north end of a north-northwest to south-southeast trending anticline. It is part of the Penrose Skelly trend and parallels the west edge of the Central Basin Platform. Dip is 1° to 2°. The Blinebry-Drinkard interval is ≈275 million years old, 1062' to 1102' 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 163 Eunice; Blinebry-Tubb-Drinkard, North Pool injection wells in New Mexico. 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. Formation depths are:

Formation	WBDU 38	WBDU 39	WBDU 42
Quaternary	0'	0'	0'
anhydrite	1280'	≈1310'	1278'
Yates	≈2618'	≈2680'	2614'
Seven Rivers	≈2872'	≈2928'	2865'
Queen	≈3439'	≈3488'	3437'
Grayburg	≈3723'	≈3745'	3740'
San Andres	≈4011'	≈4052'	3958'
Glorieta	≈5169'	≈5220'	5172'
Blinebry top	5597'	5615'	5657'
highest proposed perf	5620'	5636'	5781'
Tubb	6150'	≈6200'	6146'
Drinkard	6480'	6510'	6470'
lowest proposed perf	6736'	6756'	6710'
Abo	6737'	6767'	6727'
proposed PBTD	6767'	6762'	6770'
proposed TD	6770'	6770'	6780'

amendment to WFX-958

State Engineer records (Exhibit J) list three water wells within a mile (1610 meters) radius. Deepest (CP 00729 POD1) of the water wells is 8015'. It was originally (1951) drilled as a McKee well (30-025-06606). It was subsequently plugged back and converted to a San Andres (4010' - 4941') water supply well in 1989. It was P&A in 2011. The other two listed water wells are 80' and 90' deep.

One water well within a mile was found and sampled. The other two wells were dry. Sampled well CP 00162 & 00163 is in Section 9. A well in Section 15 was sampled, but is not in the State Engineer's database. That well is ~200 yards outside the closest mile radius. Their analyses are in Exhibit K. Ogallala aquifer is ~6 miles northeast.

No existing underground drinking water source is below the injection interval within a mile radius.

There will be >4000' of vertical separation and layers of salt and anhydrite between the bottom of the only likely underground fresh water source (red beds) and the top of the injection zone. (No water sands were reported in the red beds penetrated by these wells.) Produced water is currently being injected (199 wells) or disposed (8 wells) into the Blinbry-Tubb-Drinkard, San Andres, Grayburg, Queen, Seven Rivers, and Yates within T. 21 S., R. 37 E.

IX. The wells will be stimulated with acid.

X. No log is on file with NMOCD from #38. A gamma ray neutron log is on file with NMOCD from #39. Guard resistivity and acoustic velocity logs are on file with NMOCD from #42. GR/CBL/CCL logs will be run in each well and filed with NMOCD.

XI. One fresh water well is within the three 1-mile radii. It, and an additional well 200 yards beyond the radii, were sampled on January 28, 2017. Analyses from those wells are attached as Exhibit K.

**APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 38, 39, & 42
SEC. 9, T. 21 S., R. 37 E.
LEA COUNTY, NM**

PAGE 9

amendment to WFX-958

XII. Apache (Exhibit L) 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 >100 miles west and southwest. There are 163 injection wells in Eunice; Blinebry-Tubb-Drinkard, North Pool. Other previously approved water flood expansions (WFX-) in the unit include 854, 857, 913, 921, 922, 923, 924, 948, 952, 954, 955, 959, and 960.

XIII. A legal ad (see Exhibit M) was published January 27, 2017. Notice (this application) has been sent (Exhibit M) to the surface owner (Millard Deck Estate 4193), government lessors (BLM & NMSLO), lessees (Chevron, ConocoPhillips, ExxonMobil, & Occidental Permian), operating rights holders (Chevron, ConocoPhillips, Devon, Energen, Barbara Hannifin, Mark Hannifin, Patrick Hannifin, Robert Hannifin, John H. Hendrix Corp., Kerr-McGee (Anadarko), Lanexco, Robert Lansford, NM Co. Inc., Oxy USA WTP, Penroc Oil Corp., Petro Strategies, Tommy Phipps, Six Aches, & St. Croix Corp.), and non-Drinkard operators (Breck, Chevron) in the areas of review. Apache operates all Drinkard wells in the areas of review.



1/25/2017

Phillip R Goetze, PG
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Request for Injection Interval Amendment for WBDU #38W (30-025-09906)

Dear Mr. Goetze:

The West Blinebry Drinkard Unit (WBDU) is currently undergoing an extensive conformance project to isolate the Drinkard formation and inject all produced/makeup water into this zone. Most of the conformance work in the area has permitted Apache to run a 4-1/2" liner from PBTD to surface to shut off the Blinebry and Tubb and isolate the Drinkard for Injection, with the exception of a few federal injection wells, including the WBDU #38W.

The WBDU #38W is an active Blinebry, Tubb and Drinkard well that was converted to injection in 2009. Running a 4-1/2" liner from PBTD to surface was cost prohibitive, so Apache attempted to cement squeeze the Blinebry from 5620'-6042'. The initial Blinebry squeeze was pumped through a cement retainer using 500 sacks of cement. The well was cleaned out and the casing tested to 500 psi, losing 100 psi in 5 minutes. A second squeeze was attempted using 24 bbls of Class C cement but after cleaning the well out, the casing was tested to 400 psi and lost 200 psi in 30 minutes. Finally a dump bailer was used to spot cement across the known leaking interval and this too was unsuccessful after the casing was tested to 500 psi but lost 140 psi in 30 minutes.

Due to escalating costs, Apache would like to request an amendment to the injection interval to allow the injection packer to be set above the squeezed Blinebry perforations (+/-5600'). It is believed that the majority of the water will be injected into the Drinkard formation, with a minimal amount of fluid leaking off into the Blinebry. This should have minimal impact on the waterflood pattern performance, and an injection profile log will be collected after the work is performed to confirm these suspicions.

If you have any questions, please feel free to email me at kris.hasselbach@apachecorp.com or call my office directly at 432.818.1957.

Sincerely,

Kris Hasselbach
Apache Corporation
Production Engineer – Permian Region

EXHIBIT A



1/25/2017

Phillip R Goetze, PG
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Request for Injection Interval Amendment for WBDU #39W (30-025-06441)

Dear Mr. Goetze:

The West Blinebry Drinkard Unit (WBDU) is currently undergoing an extensive conformance project to isolate the Drinkard formation and inject all produced/makeup water into this zone. Most of the conformance work in the area has permitted Apache to run a 4-1/2" liner from PBTD to surface to shut off the Blinebry and Tubb and isolate the Drinkard for Injection, with the exception of a few federal injection wells, including the WBDU #39W.

The WBDU #39W is an active Blinebry, Tubb and Drinkard well that was converted to injection in 2009. Running a 4-1/2" liner from PBTD to surface was cost prohibitive, so Apache attempted to cement squeeze the Blinebry from 5636'-6058'. The initial Blinebry squeeze was pumped through a cement retainer using 500 sacks of cement. The wellbore was cleaned out and tested to 500 psi but lost 180 psi after 5 minutes. Micro matrix was then spotted across the Blinebry and squeezed into the tight leak. This squeeze was also unsuccessful, losing 80 psi in 10 minutes.

Due to escalating costs, Apache would like to request an amendment to the injection interval to allow the injection packer to be set above the squeezed Blinebry perforations (+/-5600'). It is believed that the majority of the water will be injected into the Drinkard formation, with a minimal amount of fluid leaking off into the Blinebry. This should have minimal impact on the waterflood pattern performance, and an injection profile log will be collected after the work is performed to confirm these suspicions.

If you have any questions, please feel free to email me at kris.hasselbach@apachecorp.com or call my office directly at 432.818.1957.

Sincerely,

Kris Hasselbach
Apache Corporation
Production Engineer – Permian Region

EXHIBIT A



1/25/2017

Phillip R Goetze, PG
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Request for Injection Interval Amendment for WBDU #42W (30-025-20178)

Dear Mr. Goetze:

The West Blinebry Drinkard Unit (WBDU) is currently undergoing an extensive conformance project to isolate the Drinkard formation and inject all produced/makeup water into this zone. Most of the conformance work in the area has permitted Apache to run a 4-1/2" liner from PBTD to surface to shut off the Blinebry and Tubb and isolate the Drinkard for Injection, with the exception of a few federal injection wells, including the WBDU #42W.

The WBDU #42W is an active Blinebry, Tubb and Drinkard well that was converted to injection in 2009. Running a 4-1/2" liner from PBTD to surface was cost prohibitive, so Apache attempted to cement squeeze the Blinebry from 5781'-6043'. The initial Blinebry squeeze was pumped through a cement retainer using 500 sacks of cement. The well was cleaned out and the casing tested to 500 psi but lost 130 psi in 10 minutes. Additional squeezes were not performed since the additional squeezes on the WBDU #38W and WBDU #39W were costly and mostly unsuccessful.

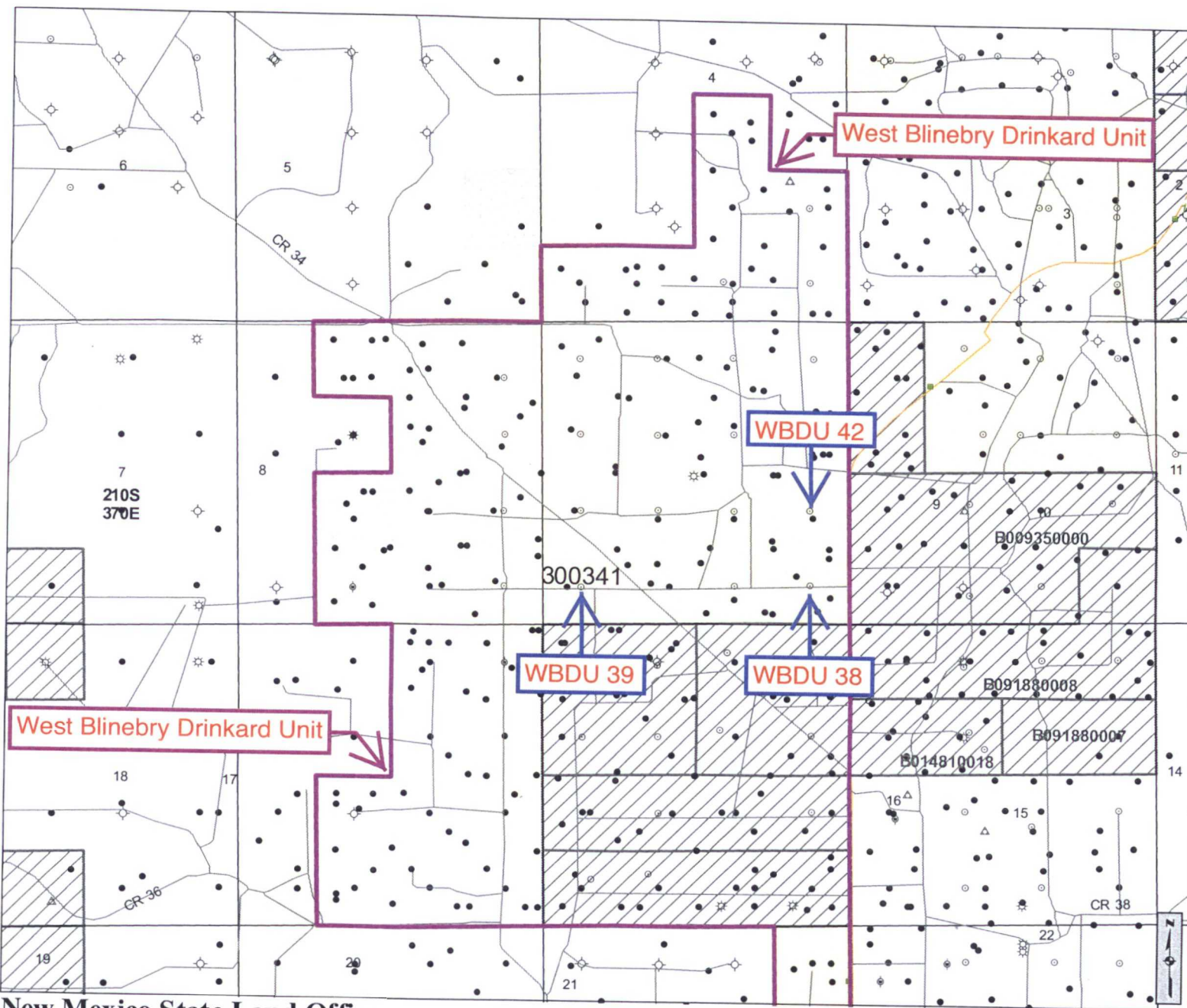
Due to escalating costs, Apache would like to request an amendment to the injection interval to allow the injection packer to be set above the squeezed Blinebry perforations (+/-5700'). It is believed that the majority of the water will be injected into the Drinkard formation, with a minimal amount of fluid leaking off into the Blinebry. This should have minimal impact on the waterflood pattern performance, and an injection profile log will be collected after the work is performed to confirm these suspicions.

If you have any questions, please feel free to email me at kris.hasselbach@apachecorp.com or call my office directly at 432.818.1957.

Sincerely,

Kris Hasselbach
Apache Corporation
Production Engineer – Permian Region

EXHIBIT A



Cartographic Features

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

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

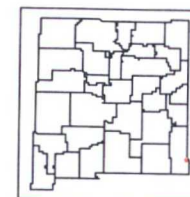
- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

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



www.nmstatelands.org

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: 4/10/2016 3:08:11 PM

EXHIBIT B

NUMBER OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
INFORMATION OFFICE	GAS
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

HOBBS OFFICE O. C. C.

FORM C-128
Revised 5/1/57

APR 29 3 01 PM '64

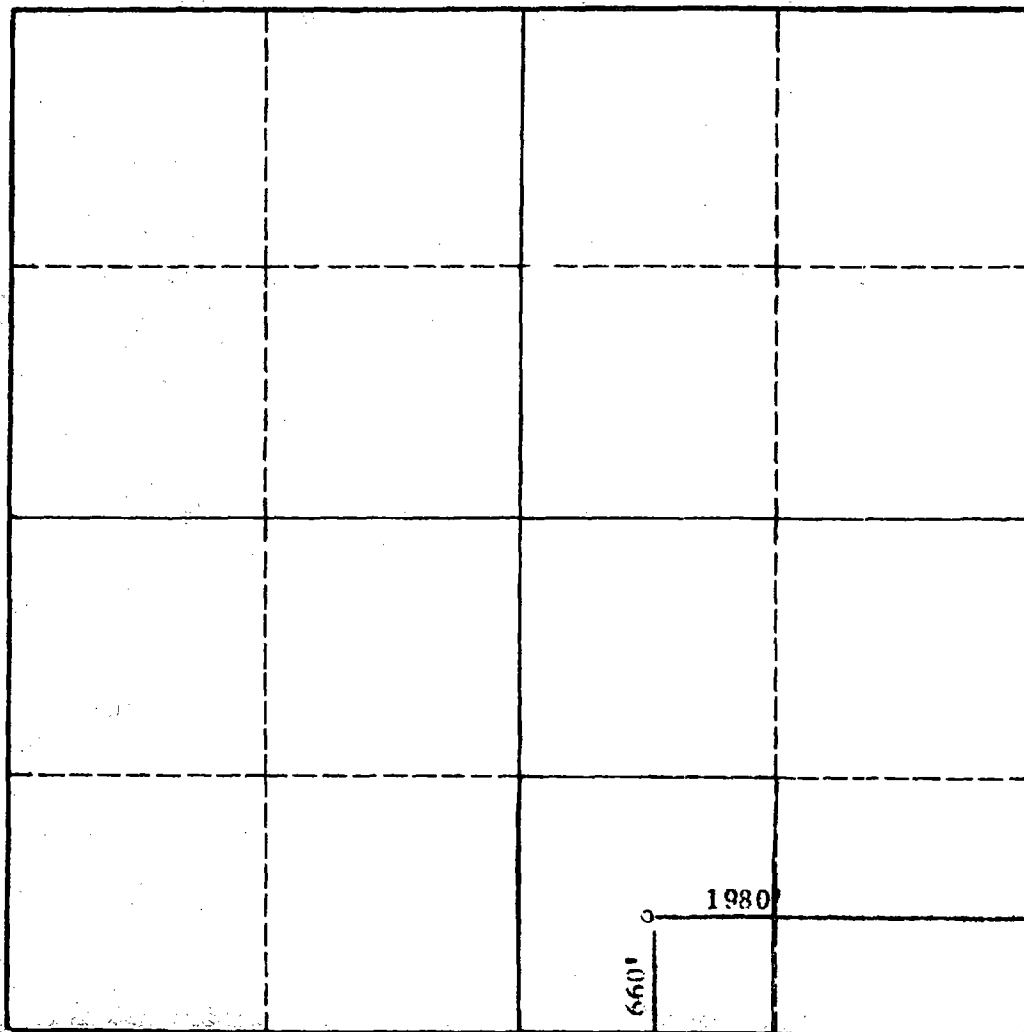
SECTION A

Operator Continental Oil Company			Lease Hawk R-1 now WBDU 38		Well No. 8
Unit Letter 0	Section 9	Township 21S	Range 37E	County Lea	
Actual Footage Location of Well: 660 feet from the South line and 1980 feet from the East line					
Ground Level Elev. 3485	Producing Formation Blinebry		Pool Blinebry		Dedicated Acreage: 40 Acres

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO ____ . ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ____ NO ____ . If answer is "yes," Type of Consolidation ____
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B



CERTIFICATION

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

Name
Position
Staff Supervisor
Company
Continental Oil Company
Date
April 28, 1964

NMOCC(4) ARS

I hereby 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
EXHIBIT B
Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAN

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the water boundaries of the Section.

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

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

Name _____

Hal R Stephens

Position

Staff Supervisor

Company

Continental Oil Co.

Date

December 29, 1965

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

Date Surveyed _____

**Registered Professional Engineer
and/or Land Surveyor**

EXHIBIT B

Certificate No.



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-128
Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

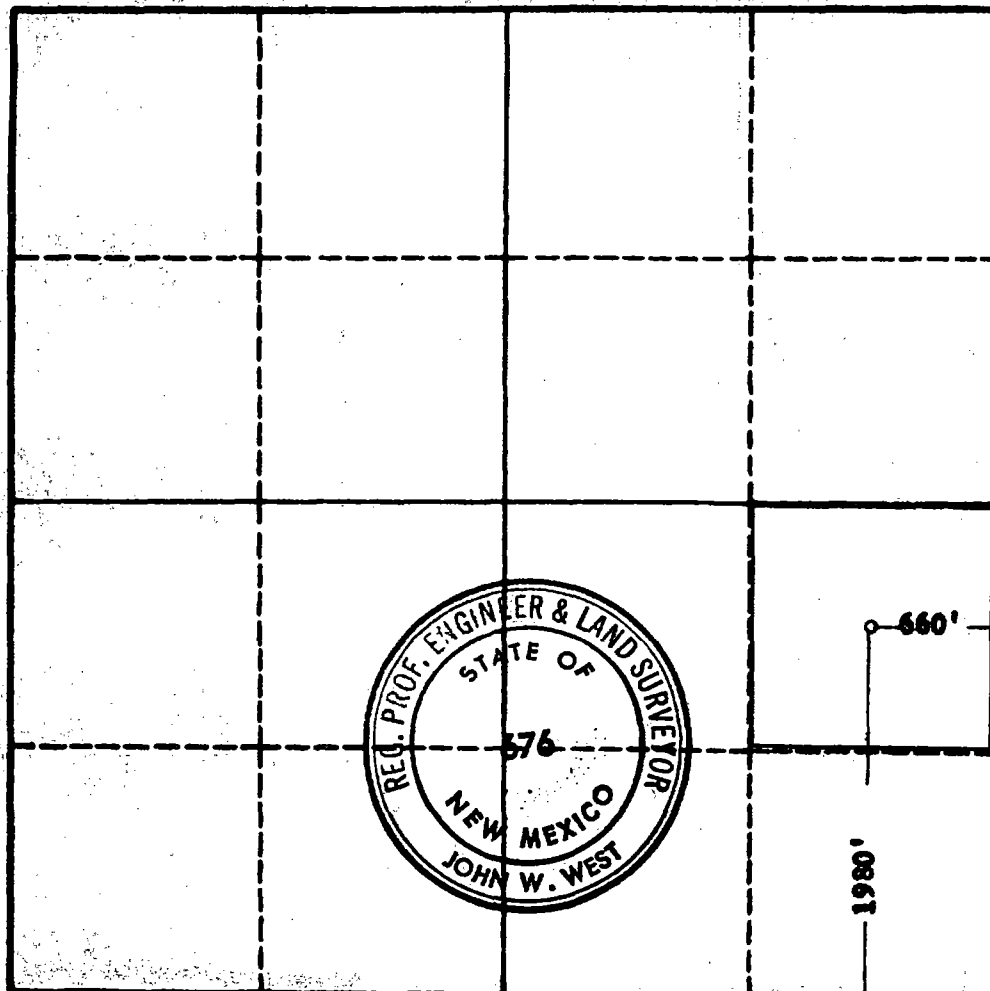
SECTION A

Operator CONTINENTAL OIL COMPANY		Lease APR 10 AM now WBDU 42		Well No. 13
Unit Letter 1	Section 9	Township 21 SOUTH	Range 37 EAST	County LEA
Actual Footage Location of Well: 1980 feet from the SOUTH line and 660 feet from the EAST line				
Ground Level Elev.	Producing Formation Blinney & Drinkard		Pool Blinney & Drinkard	Dedicated Acreage: 40 Acres

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO ☐ ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ☐ NO ☐ If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B



CERTIFICATION

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

Name SIGNED J. R. PARKS
Position Director, Supervision
Continental Oil Company

I hereby 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 4-9-63	EXHIBIT B
Registered Professional Engineer and/or Land Surveyor, JOHN W. WEST	
John W. West	
Certificate No. W. M. - P. E. & L. S. NO. 676	

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950

HOBBS OCO

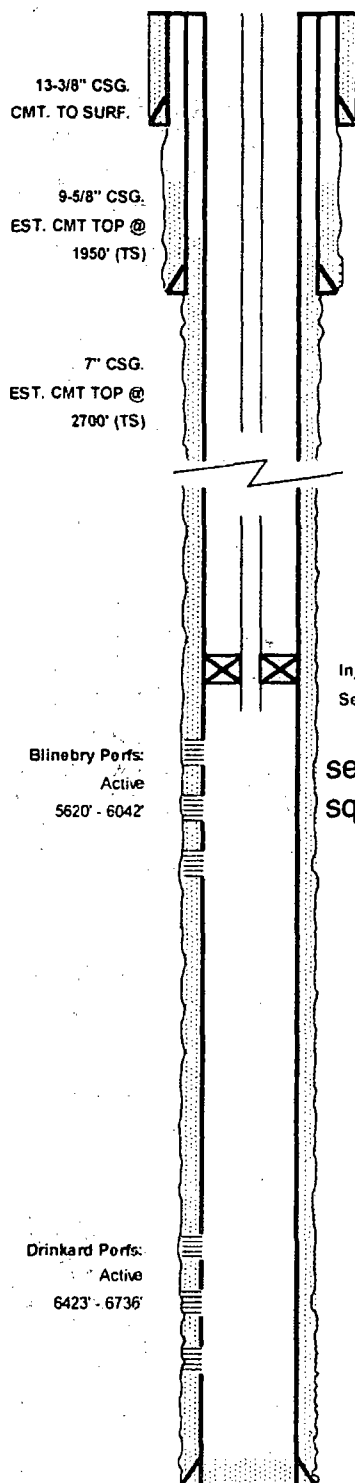
MAR 11 2016

RECEIVED

Apache

Current Wellbore Diagram

Apache Corporation
WBDU #38 (Hawk B-1 #8)
WELL DIAGRAM (CURRENT CONFIGURATION)



WELL NAME: WBDU #38W (Hawk B-1 #8)		API: 30-025-09906		
LOCATION: 660' FSL / 1980' FEL, Sec 9, T-21S, R-37E		COUNTY: Lea Co., NM		
SPUD/TD DATE: 12/4/1948 - 1/19/1949		COMP. DATE: 2/2/1949		
PREPARED BY: Bret Shapot		DATE: 11/23/2015		
TD (ft): 6,770.0	KB Elev. (ft): 3495.0	KB to Ground (ft) 10.0		
PBTD (ft): 6,767.0	Ground Elev. (ft): 3485.0			
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)
Surface Casing	13-3/8" (Cmt. w/ 200sx., Circ.)	48.00	H-40	0.00 212.00
Int. Casing	9-5/8" (Cmt. w/ 500sx, Circ.)	36 / 40	H-40 / J-55	0.00 2,794.00
Prod. Casing	7" (Cmt. w/ 900 sx) TOC @ 2700' (TS)	23.00	J-55 N-80	0.00 7,676.00

INJECTION TBG STRING

ITEM	DESCRIPTION	LENGTH (FT)	Btm (FT)
1	171 JTS 2-3/8" IPC Tubing		
2	Baker Lok-set packer w/on-off tool		
3			
4			
5			
6			
7			
8			
9			
10			

PERFORATIONS

Form.	Intervals	FT	SPF
Blinebry	5600' - 19' 33' 41' 60' 66' 94' 5911' 33' 41' 55' 67' 6011' 20' 22' 42'	16	1
	5620' - 26' 46' - 52' 56' - 76' 80' - 84' 88' - 5714' 5734' - 40' 44' - 54'	75	2
Drinkard	6718' - 36'	21	4
	6664' - 72' 80' - 92' 6698' - 6705'	30	4
	6523' 30' 37' 45' 52'	5	1

PBTD: 6,767.0

TD: 6,770.0

EXHIBIT C

Current Wellbore Diagram

Apache Corporation WBDU #39 (Hawk B-1 #9) WELL DIAGRAM (CURRENT CONFIGURATION)



WELL NAME:		WBDU #39W (Hawk B-1 #9)		API:		30-025-06441			
LOCATION:		660' FSL / 660' FWL, Sec 9, T-21S, R-37E		COUNTY:		Lea Co., NM			
SPUD/TD DATE:		2/14/1949 - 3/28/1949		COMP. DATE:		4/4/1949			
PREPARED BY:		Bret Shapot		DATE:		11/24/2015			
TD (ft):		6,770.0		KB Elev. (ft):		3517.0			
PBTD (ft):		6,585.0		Ground Elev. (ft):		3507.0			
CASING/TUBING		SIZE (IN)		WEIGHT (LB/FT)		GRADE		DEPTHS (FT)	
Surface Casing		13-3/8" (Cmt. w/ 250sx., Circ.)		36 / 48		H-40		0.00 200.00	
Int. Casing		9-5/8" (Cmt. w/ 500sx) TOC @ 1210' (TS)		36 / 40		J-55 N-80		0.00 2,824.00	
Prod. Casing		7" (Cmt. w/ 750 sx) TOC @ 3011' (TS)		23 / 26		J-55 N-80		0.00 6,769.00	

INJECTION TBG STRING

ITEM	DESCRIPTION	LENGTH (FT)	Btm (FT)
1	172 JTS 2-3/8" IPC Tubing		
2	Baker Lok-set packer w/on-off tool		
3			
4			
5			
6			
7			
8			
9			
10			

PERFORATIONS

Form.	Intervals	FT	SPF
Blinebry	5800'-36', 52', 60', 87', 98', 5932', 47', 96', 6058'	10	1
	5636'-44', 52'-70', 80'-5714', 5719'-28', 52'-56', 65'-72'	76	4
Tubb	6156'-62', 88-94', 6284'-90', 94'-6314', 6318'-21', 24'-28', 39'-54', 58', 64', 80'-86'	81	4
	(Squeezed) 6694'-6724', 6732'-46', 52'-56'	51	4
Drinkard	(Squeezed) 6618'-38', 47'-50', 62'-68', 82'-86'	37	4
	6506', 20', 37', 44', 55', 63', 83'	7	1

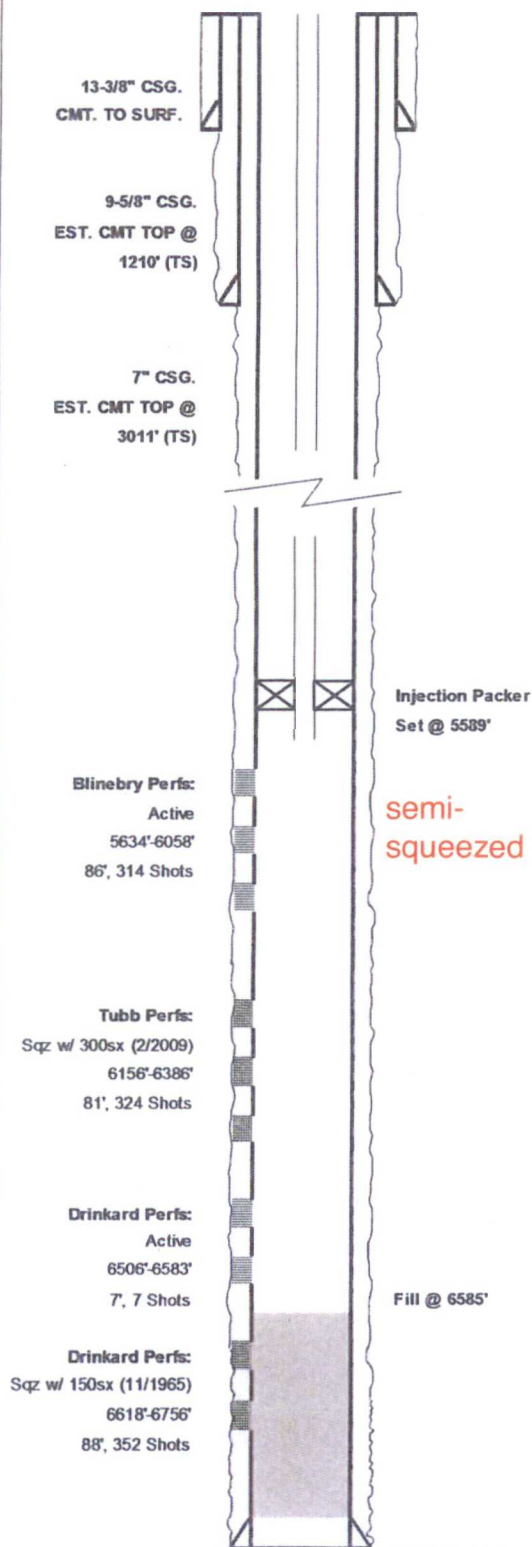
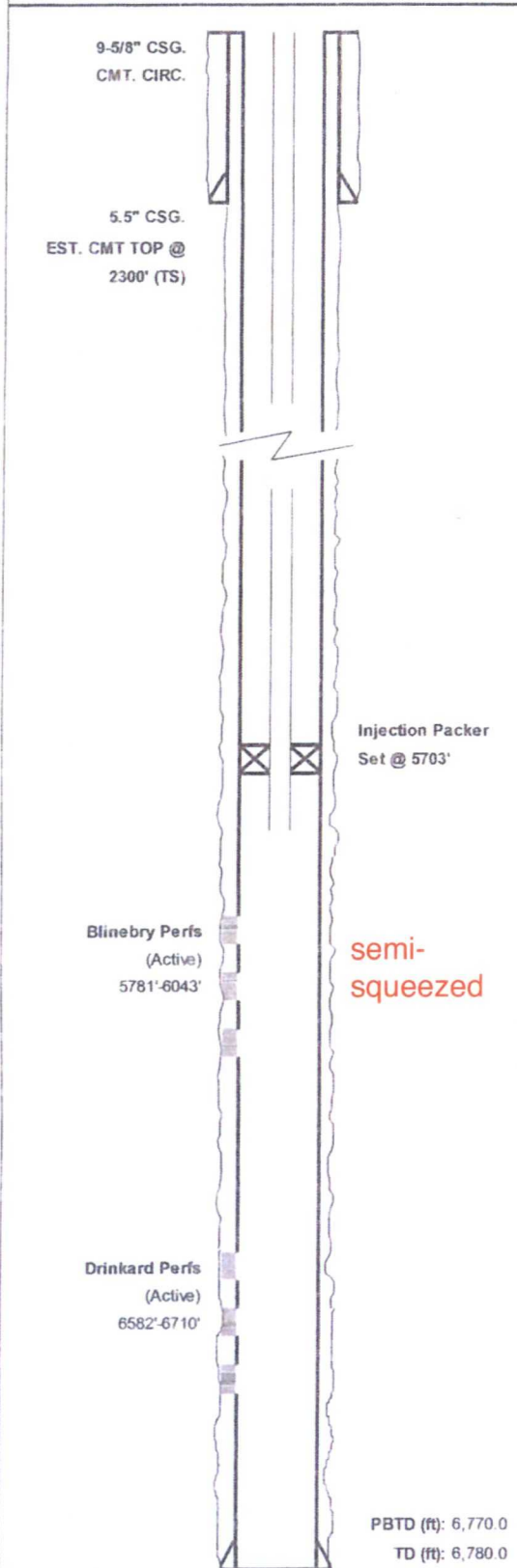


EXHIBIT C

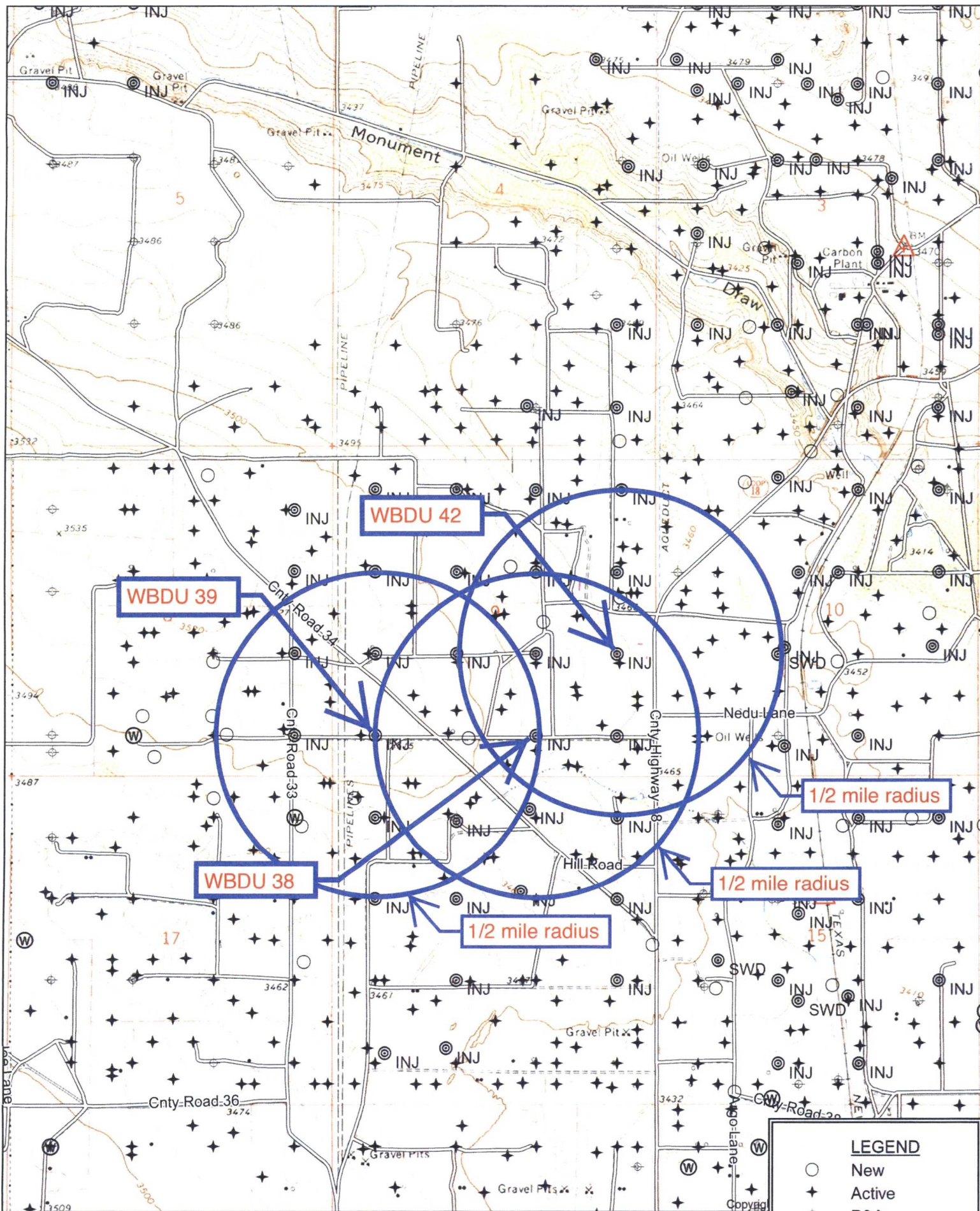
Current Well Bore Diagram

Apache Corporation
WBDU #42 Formerly Hawk B-1 #13)
WELL DIAGRAM (CURRENT CONFIGURATION)



WELL NAME: WBDU #42W (Formerly Hawk B-1 #13)		API: 30-025-20178			
LOCATION: 1980' FSL / 660' FEL, Sec 9, T-21S, R-37E		COUNTY: Lea Co., NM			
SPUD/TD DATE: 4/13/1963 - 5/3/1963		PREPARED BY: Bret Shapot			
COMP. DATE: 6/1/1963		UPDATED: 11/23/1985			
TD (ft): 6,780.0	KB Elev. (ft): 3480.0	KB ELEV: 10.0			
PBTD (ft): 6,770.0	Ground Elev. (ft): 3470.0				
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)	
Surface Casing	9-5/8" (Cmt. w/450x, circ)	36.00	H-40 / J-55	0.00	1,294.00
Prod. Casing	5-1/2" (Cmt. w/700x) TOC @ 2300' (TS)	17.00	J-55/L-80	0.00	6,780.00
INJECTION TBG STRING					
ITEM	DESCRIPTION			LENGTH (FT)	Depth (FT)
1	175 JTS 2-3/8" IPC Tubing				
2	Baker Lok-set packer w/on-off tool				
3					
4					
5					
6					
7					
8					
9					
10					
PERFORATIONS					
Form.	Intervals			FT	SPF
Blinebry	5822'-24', 32'-34', 37'-38', 46'-48', 51'-53', 58'-59', 72'-74', 80'-84', 5905'-07', 43'-45', 48'-49', 57'-59', 99'-6001', 6012'-13', 24'-26', 41'-43'			46	2
	5781', 87', 99', 5807', 11'			5	2
Drinkard	6690'-93', 6701'-03', 08'-10'			10	2
	6582'-84', 90'-92', 96'-98', 6603'-05', 12'-14', 20'-21', 27'-29', 46'-48', 50'-52', 62'-64', 71'-73'			32	2

EXHIBIT C

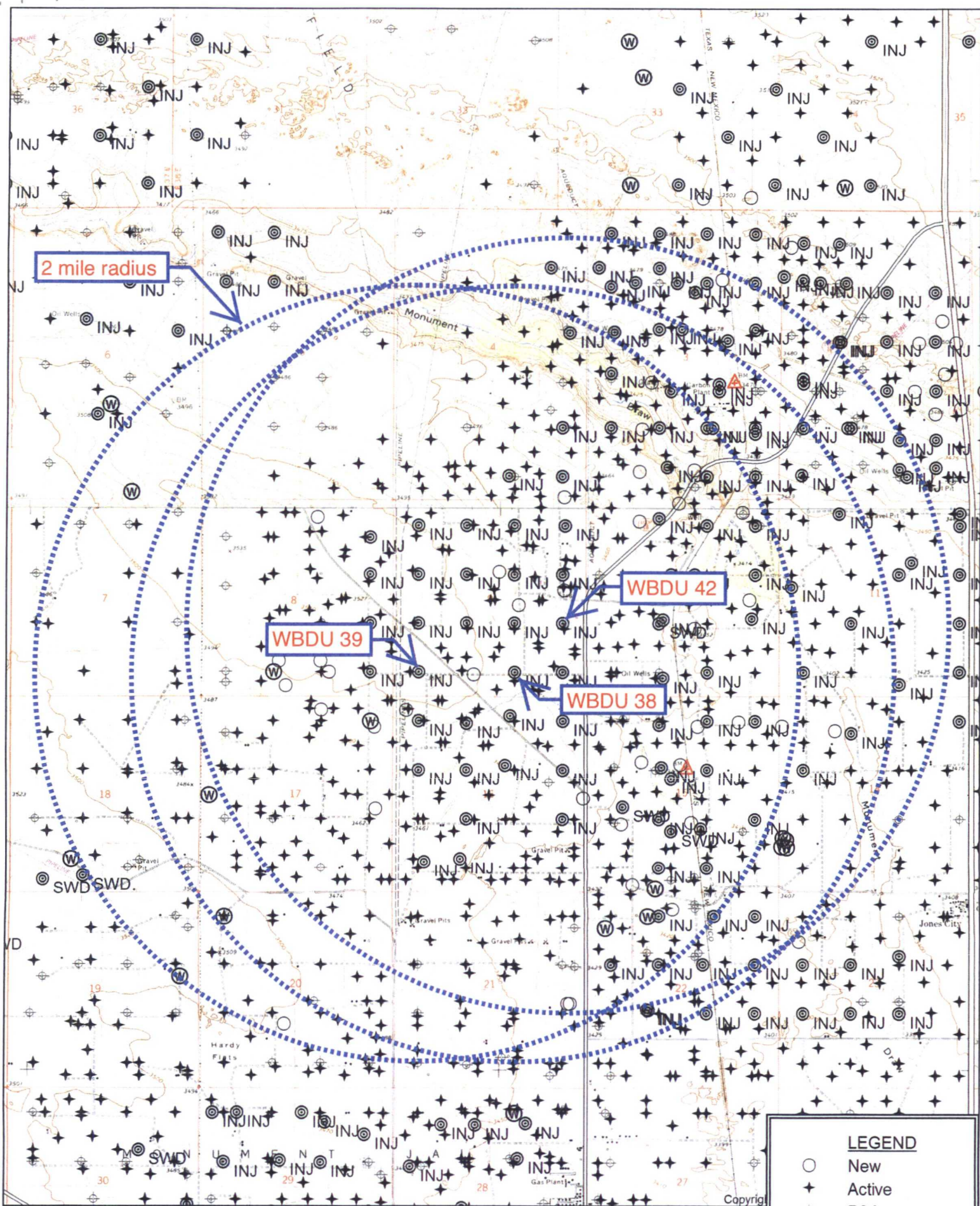


Quad: EUNICE
Scale: 1 inch = 2,000 ft.

EXHIBIT D

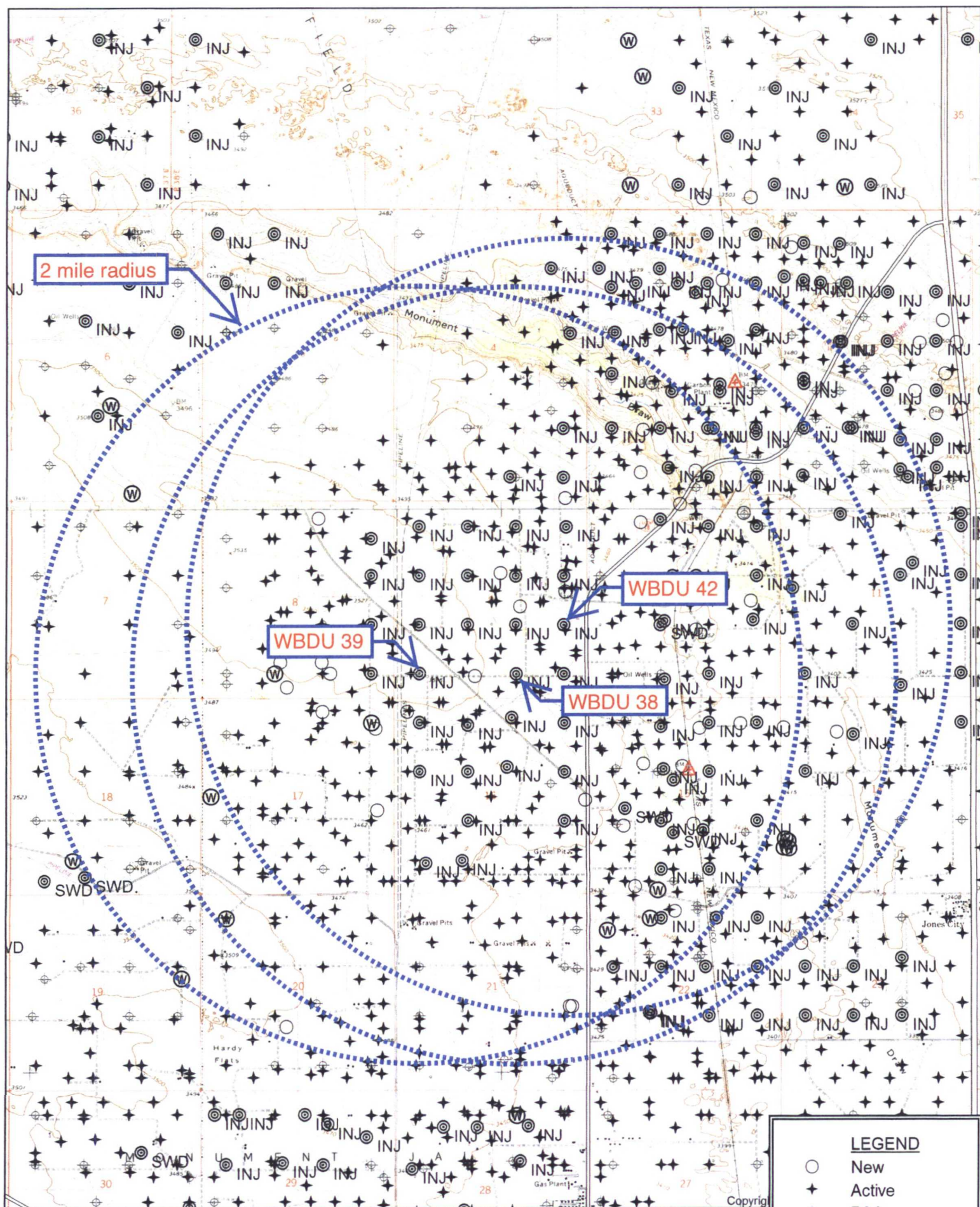
LEGEND

- New
- ✦ Active
- ⊕ P&A
- ⊙ INJ
- ⊙ SWD



Quad: EUNICE
Scale: 1 inch = 3,333 ft.

EXHIBIT D



2 mile radius

WBDU 39

WBDU 42

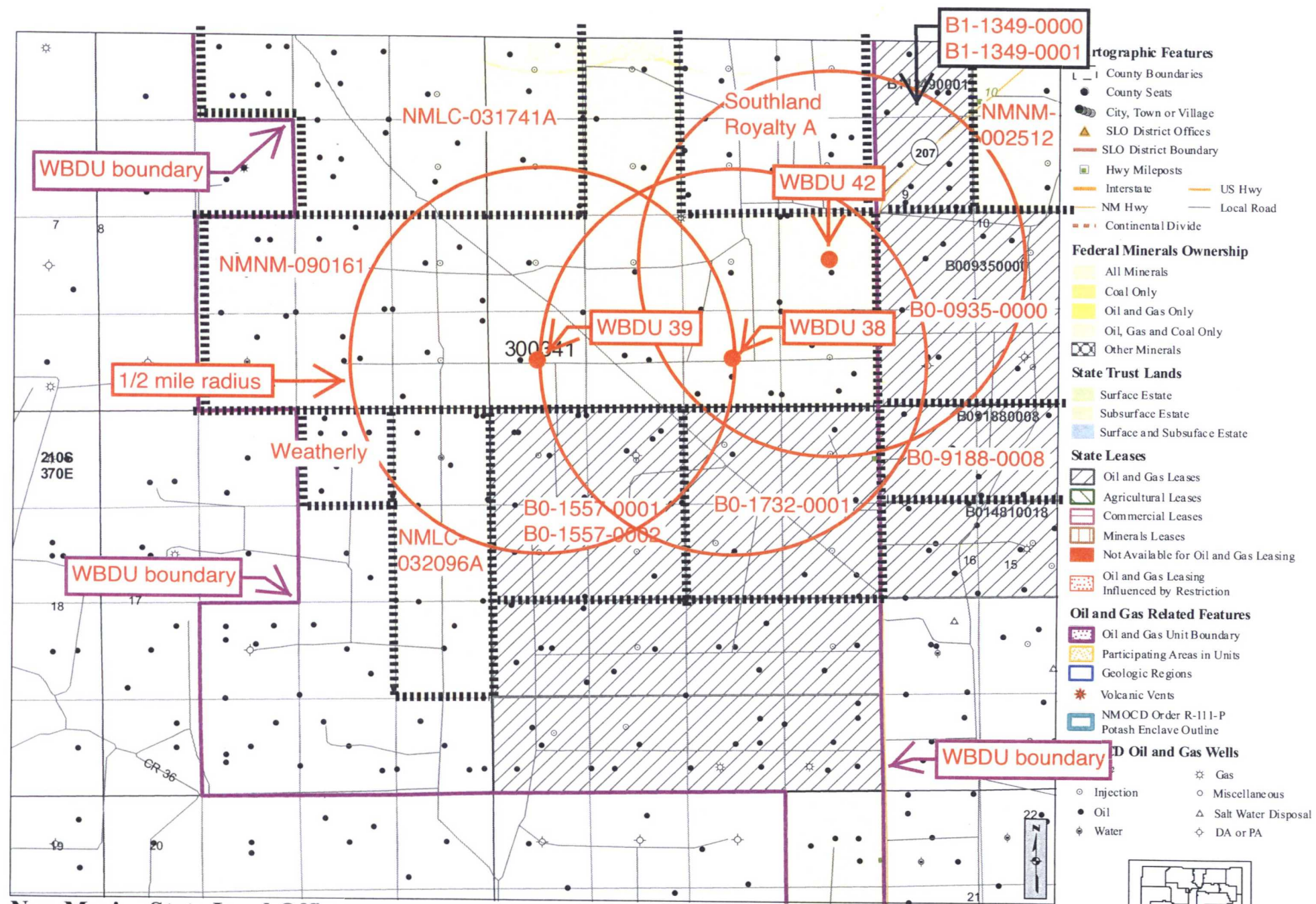
WBDU 38

LEGEND

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

Quad: EUNICE
Scale: 1 inch = 3,333 ft.

EXHIBIT E



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

0 0.05 0.1 0.2 0.3 0.4
Miles

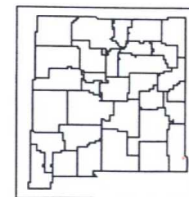
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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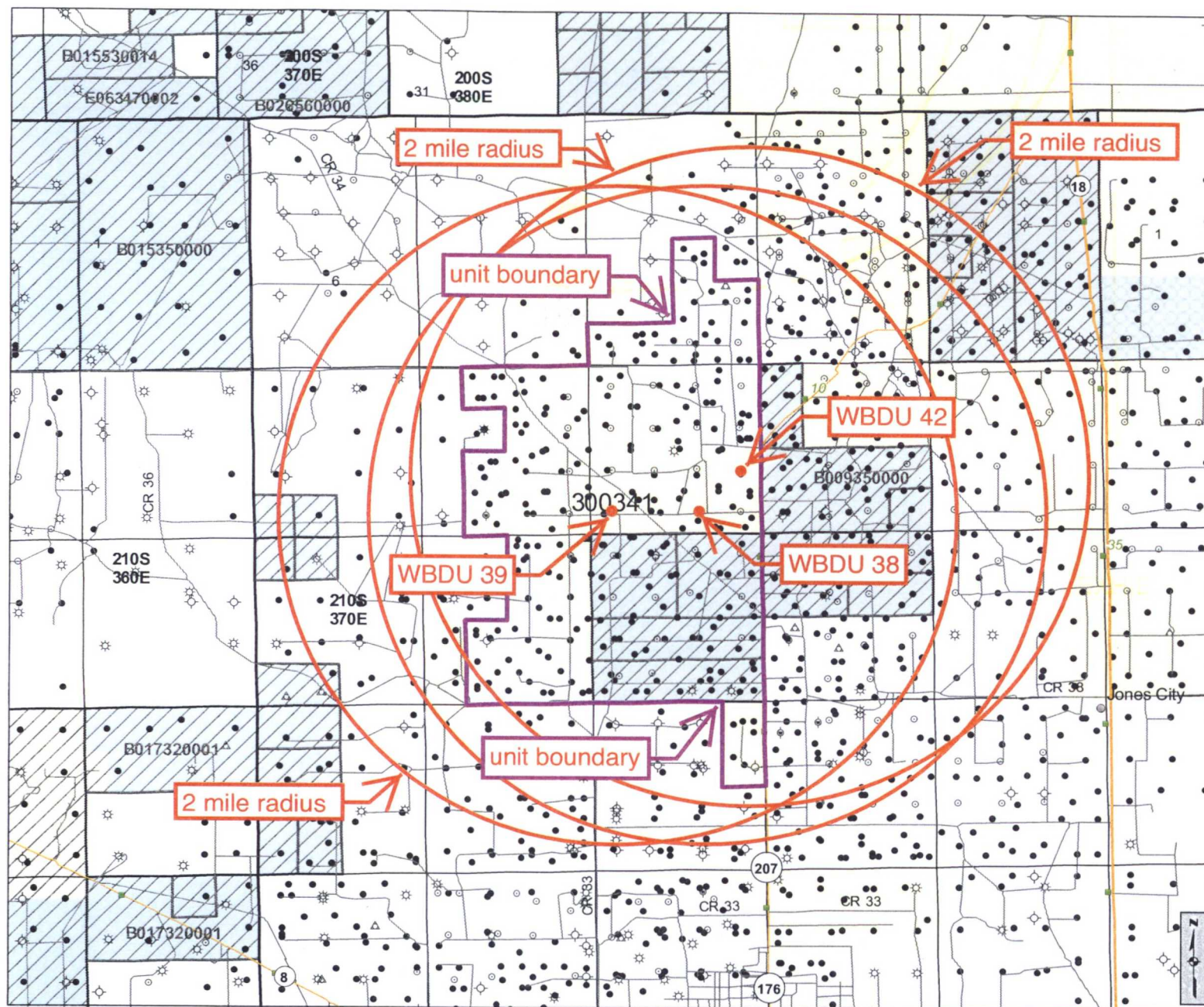
Land Office Geographic Information Center
logic@slo.state.nm.us

Created On: 4/3/2016 10:46:44 AM

EXHIBIT F



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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

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

New Mexico State Land Office Oil, Gas and Minerals

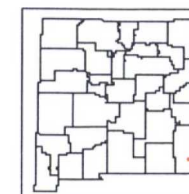
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Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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Created On: 11/22/2015 7:24:18 PM

EXHIBIT G



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API	OPERATOR	WELL	UNIT-SECTION	TVD	TYPE	ZONE	FEET FROM WBDU 38
3002535880	Apache	Hawk Fed B 1 028	O-9	4200	O	Penrose Skelly; Grayburg	240
3002543222	Apache	WBDU 176	O-9	Plan 6851	O	Eunice; Bli-Tu-Dr, N	382
3002538198	Apache	WBDU 052	O-9	6870	O	Eunice; Bli-Tu-Dr, N	657
3002538197	Apache	WBDU 051	O-9	6837	O	Eunice; Bli-Tu-Dr, N	690
3002536531	Apache	Hawk Fed B 1 038	O-9	4350	O	Penrose Skelly; Grayburg	712
3002537743	Apache	WBDU 049	J-9	6950	O	Eunice; Bli-Tu-Dr, N	834
3002536662	Apache	Hawk Fed B 1 035	P-9	4350	O	Penrose Skelly; Grayburg	840
3002536530	Apache	Hawk Fed B 1 036	P-9	4743	O	Penrose Skelly; Grayburg	934
3002537744	Apache	WBDU 050	J-9	6875	O	Eunice; Bli-Tu-Dr, N	1010
3002535806	Apache	Hawk Fed B 1 027	P-9	4200	O	Penrose Skelly; Grayburg	1098
3002542569	Apache	WBDU 188	N-9	Plan 7200	I	Eunice; Bli-Tu-Dr, N	1154
3002541547	Apache	WBDU 178	B-16	6948	I	Penrose Skelly; Grayburg	1165
3002535798	Apache	Hawk Fed B 1 025	J-9	4200	O	Penrose Skelly; Grayburg	1170
3002543172	Apache	WBDU 220	I-9	Plan 7000	O	Eunice; Bli-Tu-Dr, N	1319
3002506438	Apache	WBDU 033	J-9	6695	I	Eunice; Bli-Tu-Dr, N	1320
3002506622	Chevron	Harry Leonard NCT E 3	B-16	6710	O	Penrose Skelly; Grayburg	1320
3002506439	Apache	WBDU 037	P-9	6750	I	Eunice; Bli-Tu-Dr, N	1327
3002543127	Apache	WBDU 175	C-16	Plan 7000	O	Eunice; Bli-Tu-Dr, N	1351
3002509907	Apache	Hawk Fed B 1 006	N-9	7530	O	Eunice Monument; Grayburg-SA	1359
3002536095	Apache	State C Tract 12 013	C-16	4150	O	Penrose Skelly; Grayburg	1381
3002535882	Apache	Hawk Fed B 1 031	N-9	4204	O	Penrose Skelly; Grayburg	1429

3002541262	Apache	WBDU 142	P-9	6849	O	Eunice; Bli-Tu-Dr, N	1477
3002537202	Apache	State C Tract 12 021	C-16	7300	O	Wantz; Abo	1523
3002538959	Apache	Hawk Fed B 1 068	P-9	4455	O	Penrose Skelly; Grayburg	1629
3002537998	Apache	Hawk Fed B 1 052	P-9	4358	O	Penrose Skelly; Grayburg	1698
3002525198	Chevron	Harry Leonard NCT E 6	A-16	6720	O	Penrose Skelly; Grayburg	1707
3002535799	Apache	Hawk Fed B 1 026	K-9	4200	O	Penrose Skelly; Grayburg	1742
3002539442	Apache	WBDU 112	P-9	6965	O	Eunice; Bli-Tu-Dr, N	1747
3002535881	Apache	Hawk Fed B 1 030	I-9	4200	O	Penrose Skelly; Grayburg	1796
3002506627	Stanolind	State C TR 12 006	C-16	5762	P&A	Drinkard	1848
3002536344	Apache	WBDU 045	N-9	6900	O	Eunice; Bli-Tu-Dr, N	1851
3002509908	Apache	WBDU 036	K-9	6773	I	Eunice; Bli-Tu-Dr, N	1854
3002520178	Apache	WBDU 042	I-9	6780	I	Eunice; Bli-Tu-Dr, N	1868
3002506623	Apache	WBDU 057	A-16	6699	I	Eunice; Bli-Tu-Dr, N	1875
3002506628	Apache	WBDU 060	C-16	6699	I	Eunice; Bli-Tu-Dr, N	1891
3002535707	Apache	State C Tract 12 009	C-16	4450	O	Penrose Skelly; Grayburg	1902
3002543126	Apache	WBDU 167	B-16	Plan 6900	O	Eunice; Bli-Tu-Dr, N	1946
3002539119	Apache	WBDU 098	B-16	6880	O	Penrose Skelly; Grayburg	1998
3002536664	Apache	Hawk Fed B 1 041	K-9	4350	G	Penrose Skelly; Grayburg	2037
3002536686	Apache	Hawk Fed B 1 037	I-9	4350	O	Penrose Skelly; Grayburg	2042
3002538200	Apache	WBDU 054	J-9	6900	O	Eunice; Bli-Tu-Dr, N	2066
3002536613	Apache	State C Tract 12 017	C-16	4386	O	Penrose Skelly; Grayburg	2084
3002538199	Apache	WBDU 053	I-9	6885	O	Eunice; Bli-Tu-Dr, N	2101

3002543223	Apache	WBDU 244	K-9	Plan 6850	O	Eunice; Bli-Tu-Dr, N	2103
3002536533	Apache	Hawk Fed B 1 040	M-9	4775	O	Penrose Skelly; Grayburg	2106
3002536618	Apache	State C Tract 12 016	D-16	4350	O	Penrose Skelly; Grayburg	2114
3002541871	Apache	WBDU 201	G-9	6957	O	Eunice; Bli-Tu-Dr, N	2139
3002538268	Apache	WBDU 064	F-16	6892	O	Eunice; Bli-Tu-Dr, N	2148
3002536741	Chevron	Harry Leonard NCT E 7	H-16	4345	O	Penrose Skelly; Grayburg	2193
3002538267	Apache	WBDU 063	D-16	6845	O	Eunice; Bli-Tu-Dr, N	2258
3002543043	Apache	WBDU 195	F-9	Plan 7000	O	Eunice; Bli-Tu-Dr, N	2292
3002537242	Apache	NEDU 527	M-10	6862	O	Eunice; Bli-Tu-Dr, N	2409
3002543045	Apache	WBDU 239	I-9	Plan 7000	O	Eunice; Bli-Tu-Dr, N	2427
3002536809	Apache	NEDU 526	D-15	6900	O	Eunice; Bli-Tu-Dr, N	2455
3002541872	Apache	WBDU 202	G-9	6937	O	Eunice; Bli-Tu-Dr, N	2455
3002543125	Apache	WBDU 166	F-16	Plan 6900	O	Eunice; Bli-Tu-Dr, N	2480
3002541435	Apache	Southland Royalty A 2H	H-9	6926	O	Wantz; Abo	2499
3002541548	Apache	WBDU 168	G-16	6982	I	Eunice; Bli-Tu-Dr, N	2510
3002539277	Apache	WBDU 113	A-16	6912	O	Eunice; Bli-Tu-Dr, N	2526
3002506441	Apache	WBDU 039	M-9	6770	I	Eunice; Bli-Tu-Dr, N	2624
3002506620	Chevron	Harry Leonard NCT E 1	G-16	6670	O	Penrose Skelly; Grayburg	2640
3002506442	Apache	WBDU 005	G-9	7569	I	Wantz; Abo	2642

API	OPERATOR	WELL	TYPE	UNIT-SECTION	TVD	ZONE	FEET FROM WBDU 39
3002535796	Apache	Hawk Fed B 1 019	O	M-9	4200	Penrose Skelly; Grayburg	236
3002538267	Apache	WBDU 063	O	D-16	6845	Eunice; Bli-Tu-Dr, N	886
3002536344	Apache	WBDU 045	O	N-9	6900	Eunice; Bli-Tu-Dr, N	897
3002536533	Apache	Hawk Fed B 1 040	O	M-9	4775	Penrose Skelly; Grayburg	899
3002536532	Apache	Hawk Fed B 1 039	O	P-8	4350	Penrose Skelly; Grayburg	921
3002541375	Apache	State C Tract 12 Com 001	P&A	D-16	795	fish	990
3002541454	Apache	State C Tract 12 Com 001Y	O	D-16	6872	Eunice; Bli-Tu-Dr, N	1010
3002536618	Apache	State C Tract 12 016	O	D-16	4350	Penrose Skelly; Grayburg	1011
3002536661	Apache	Lockhart A 17 009	O	A-17	4350	Penrose Skelly; Grayburg	1069
3002538205	Apache	WBDU 070	O	A-17	6925	Eunice; Bli-Tu-Dr, N	1156
3002537742	Apache	WBDU 048	O	I-8	6950	Eunice; Bli-Tu-Dr, N	1161
3002535882	Apache	Hawk Fed B 1 031	O	N-9	4204	Penrose Skelly; Grayburg	1196
3002506629	Apache	WBDU 061	I	D-16	6690	Eunice; Bli-Tu-Dr, N	1320
3002509910	Apache	WBDU 035	I	L-9	6707	Eunice; Bli-Tu-Dr, N	1320
3002535876	Apache	Hawk Fed B 1 020	O	L-9	4200	Penrose Skelly; Grayburg	1325
3002535515	Apache	State C Tract 12 008	O	D-16	4450	Penrose Skelly; Grayburg	1329
3002506433	Apache	WBDU 040	I	P-8	6758	Eunice; Bli-Tu-Dr, N	1375
3002509907	Apache	Hawk Fed B 1 006	O	N-9	7530	Eunice Monument; Grayburg-SA	1384
3002543223	Apache	WBDU 244	O	K-9	Plan 6850	Eunice; Bli-Tu-Dr, N	1421
3002542569	Apache	WBDU 188	O	N-9	Plan 7200	Eunice; Bli-Tu-Dr, N	1470

3002535795	Apache	Hawk Fed B 1 018	O	P-8	4200	Penrose Skelly; Grayburg	1511
3002543127	Apache	WBDU 175	O	C-16	Plan 6900	Eunice; Bli-Tu-Dr, N	1685
3002535707	Apache	State C Tract 12 009	O	C-16	4450	Penrose Skelly; Grayburg	1740
3002535799	Apache	Hawk Fed B 1 026	O	K-9	4200	Penrose Skelly; Grayburg	1788
3002509908	Apache	WBDU 036	I	K-9	6773	Eunice; Bli-Tu-Dr, N	1868
3002506639	Apache	Lockhart A 17 004	G	A-17	6770	Eunice; Bli-Tu-Dr, N	1869
3002506627	Stanolind	State C TR 12 006	P&A	C-16	5762	Eunice; Bli-Tu-Dr, N	1874
3002506434	Apache	WBDU 041	I	I-8	6775	Eunice; Bli-Tu-Dr, N	1875
3002542495	Apache	WBDU 130	I	A-17	Plan 7200	Eunice; Bli-Tu-Dr, N	1880
3002537202	Apache	State C Tract 12 021	O	C-16	7300	Wantz; Abo	1904
3002538014	Apache	Hawk Fed B 1 050	O	I-8	4355	Penrose Skelly; Grayburg	1915
3002506628	Apache	WBDU 060	I	C-16	6699	Eunice; Bli-Tu-Dr, N	1917
3002536095	Apache	State C Tract 12 013	O	C-16	4150	Penrose Skelly; Grayburg	1934
3002540274	Apache	WBDU 124	O	P-8	7300	Eunice; Bli-Tu-Dr, N	1953
3002537379	Apache	Lockhart A 17 010	O	A-17	4360	Penrose Skelly; Grayburg	1955
3002538196	Apache	WBDU 031	O	E-9	6945	Eunice; Bli-Tu-Dr, N	1981
3002536305	Apache	WBDU 062	O	D-16	6950	Eunice; Bli-Tu-Dr, N	1998
3002538206	Apache	WBDU 071	O	A-17	6905	Eunice; Bli-Tu-Dr, N	2006
3002536115	Apache	State C Tract 12 012	O	E-16	4125	Penrose Skelly; Grayburg	2017
3002535877	Apache	Hawk Fed B 1 021	O	I-8	4212	Penrose Skelly; Grayburg	2026
3002536478	Apache	State C Tract 12 015	O	C-16	4725	Penrose Skelly; Grayburg	2043

3002536663	Apache	Hawk Fed B 1 033	O	L-9	4345	Penrose Skelly; Grayburg	2056
3002536531	Apache	Hawk Fed B 1 038	O	O-9	4350	Penrose Skelly; Grayburg	2091
3002536158	Apache	Hawk Fed B 1 032	O	I-8	4200	Penrose Skelly; Grayburg	2104
3002538521	Apache	WBDU 055	O	I-8	6975	Eunice; Bli-Tu-Dr, N	2124
3002538197	Apache	WBDU 051	O	O-9	6837	Eunice; Bli-Tu-Dr, N	2148
3002537020	Apache	WBDU 046	O	J-8	7383	Eunice; Bli-Tu-Dr, N	2208
3002543043	Apache	WBDU 195	O	F-9	Plan 7000	Eunice; Bli-Tu-Dr, N	2240
3002537743	Apache	WBDU 049	O	J-9	6950	Eunice; Bli-Tu-Dr, N	2273
3002543125	Apache	WBDU 166	O	F-16	Plan 6900	Eunice; Bli-Tu-Dr, N	2274
3002542493	Apache	WBDU 185	I	O-8	Plan 7200	Eunice; Bli-Tu-Dr, N	2480
3002506642	Apache	WBDU 065	O	B-17	6684	Eunice; Bli-Tu-Dr, N	2521
3002535708	Apache	State C Tract 12 010	O	F-16	4200	Penrose Skelly; Grayburg	2573
3002536101	Apache	Lockhart A 17 006	O	H-17	4150	Penrose Skelly; Grayburg	2587
3002509906	Apache	WBDU 038	I	O-9	6770	Eunice; Bli-Tu-Dr, N	2624
3002538268	Apache	WBDU 064	O	F-16	6892	Eunice; Bli-Tu-Dr, N	2632
3002535880	Apache	Hawk Fed B 1 028	O	O-9	4200	Penrose Skelly; Grayburg	2636
3002506625	Apache	WBDU 058	I	E-16	6740	Eunice; Bli-Tu-Dr, N	2640
3002506440	Apache	WBDU 021	I	E-9	6710	Eunice; Bli-Tu-Dr, N	2643

API	OPERATOR	WELL	TYPE	UNIT-SECTION	TVD	ZONE	FEET FROM WBDU 42
3002535881	Apache	Hawk Fed B 1 030	O	I-9	4200	Penrose Skelly; Grayburg	155
3002543045	Apache	WBDU 239	O	I-9	Plan 7000	Eunice; Bli-Tu-Dr, N	559
3002543172	Apache	WBDU 220	O	I-9	Plan 7000	Eunice; Bli-Tu-Dr, N	631
3002539442	Apache	WBDU 112	O	P-9	6965	Eunice; Bli-Tu-Dr, N	730
3002541435	Apache	Southland Royalty A 002H	O	H-9	6926	Wantz; Abo	806
3002539015	Apache	Southland Royalty A 028	O	H-9	4400	Penrose Skelly; Grayburg	861
3002537998	Apache	Hawk Fed B 1 052	O	P-9	4358	Penrose Skelly; Grayburg	864
3002538199	Apache	WBDU 053	O	I-9	6885	Eunice; Bli-Tu-Dr, N	871
3002537744	Apache	WBDU 050	O	J-9	6875	Eunice; Bli-Tu-Dr, N	877
3002536686	Apache	Hawk Fed B 1 037	O	I-9	4350	Penrose Skelly; Grayburg	895
3002536530	Apache	Hawk Fed B 1 036	O	P-9	4743	Penrose Skelly; Grayburg	934
3002537200	Apache	WBDU 016	O	H-9	7298	Eunice; Bli-Tu-Dr, N	1016
3002535806	Apache	Hawk Fed B 1 027	O	P-9	4200	Penrose Skelly; Grayburg	1174
3002537444	Apache	NEDU 422	O	E-10	6900	Eunice; Bli-Tu-Dr, N	1197
3002537242	Apache	NEDU 527	O	M-10	6862	Eunice; Bli-Tu-Dr, N	1201
3002530913	Apache	NEDU 514	O	L-10	5990	Eunice; Bli-Tu-Dr, N	1296
3002506439	Apache	WBDU 037	I	P-9	6750	Eunice; Bli-Tu-Dr, N	1320
3002506444	Apache	WBDU 009	I	H-9	7200	Eunice; Bli-Tu-Dr, N	1321
3002506438	Apache	WBDU 033	I	J-9	6695	Eunice; Bli-Tu-Dr, N	1327
3002541872	Apache	WBDU 202	O	G-9	6937	Eunice; Bli-Tu-Dr, N	1330

3002535798	Apache	Hawk Fed B 1 025	O	J-9	4200	Penrose Skelly; Grayburg	1334
3002535767	Apache	Southland Royalty A 012	O	H-9	4200	Penrose Skelly; Grayburg	1472
3002536070	Breck	State 10 002	O	E-10	7505	Wantz; Abo	1527
3002538959	Apache	Hawk Fed B 1 068	O	P-9	4455	Penrose Skelly; Grayburg	1540
3002540363	Apache	WBDU 111	O	H-9	7199	Eunice; Bli-Tu-Dr, N	1547
3002541873	Apache	WBDU 206	O	H-9	6910	Eunice; Bli-Tu-Dr, N	1548
3002541588	Apache	NEDU 540	O	L-10	6955	Eunice; Bli-Tu-Dr, N	1557
3002541161	Apache	NEDU 562	O	L-10	6978	Eunice; Bli-Tu-Dr, N	1603
3002506474	Apache	NEDU 501	P&A	L-10	5990	Eunice; Bli-Tu-Dr, N	1651
3002541262	Apache	WBDU 142	O	P-9	6849	Eunice; Bli-Tu-Dr, N	1758
3002540851	Apache	NEDU 427	O	E-10	6951	Eunice; Bli-Tu-Dr, N	1802
3002509906	Apache	WBDU 038	I	O-9	6770	Eunice; Bli-Tu-Dr, N	1868
3002506463	Apache	NEDU 502	O	M-10	6660	Eunice; Bli-Tu-Dr, N	1874
3002506442	Apache	WBDU 005	I	G-9	7569	Eunice; Bli-Tu-Dr, N	1876
3002537743	Apache	WBDU 049	O	J-9	6950	Eunice; Bli-Tu-Dr, N	1888
3002536736	Breck	State 10 003	O	E-10	4384	Hare; San Andres, E	1930
3002536662	Apache	Hawk Fed B 1 035	O	P-9	4350	Penrose Skelly; Grayburg	1932
3002506472	XTO	New Mexico V State 010	G	M-10	7939	Hare; San Andres	1946
3002538198	Apache	WBDU 052	O	O-9	6870	Eunice; Bli-Tu-Dr, N	1958
3002506467	XTO	New Mexico V State 005	O	M-10	8403	Penrose Skelly; Grayburg	1983
3002535514	Apache	Southland Royalty A 010	O	G-9	4450	Penrose Skelly; Grayburg	1985

3002538200	Apache	WBDU 054	O	J-9	6900	Eunice; Bli-Tu-Dr, N	2003
3002535880	Apache	Hawk Fed B 1 028	O	O-9	4200	Penrose Skelly; Grayburg	2044
3002534799	Apache	NEDU 523	O	L-10	6860	Eunice; Bli-Tu-Dr, N	2049
3002541871	Apache	WBDU 201	O	G-9	6957	Eunice; Bli-Tu-Dr, N	2055
3002536664	Apache	Hawk Fed B 1 041	G	K-9	4350	Penrose Skelly; Grayburg	2065
3002536531	Apache	Hawk Fed B 1 038	O	O-9	4350	Penrose Skelly; Grayburg	2100
3002543222	Apache	WBDU 176	O	O-9	Plan 6851	Eunice; Bli-Tu-Dr, N	2111
3002506461	Apache	NEDU 402	O	E-10	8158	Eunice; Bli-Tu-Dr, N	2117
3002534798	Apache	NEDU 416	O	K-10	6880	Eunice; Bli-Tu-Dr, N	2126
3002538416	Apache	Southland Royalty A 027	O	B-9	4157	Penrose Skelly; Grayburg	2184
3002536366	Apache	NEDU 418	O	D-10	6925	Eunice; Bli-Tu-Dr, N	2204
3002536340	Apache	WBDU 012	O	B-9	6900	Eunice; Bli-Tu-Dr, N	2247
3002525198	Chevron	Harry Leonard NCT E 006	O	A-16	6720	Penrose Skelly; Grayburg	2311
3002536809	Apache	NEDU 526	O	D-15	6900	Eunice; Bli-Tu-Dr, N	2335
3002542649	Apache	WBDU 196	O	G-9	Plan 7000	Eunice; Bli-Tu-Dr, N	2387
3002540789	Apache	NEDU 428	O	K-10	6950	Eunice; Bli-Tu-Dr, N	2475
3002538197	Apache	WBDU 051	O	O-9	6837	Eunice; Bli-Tu-Dr, N	2556
3002537030	Apache	WBDU 014	O	G-9	6900	Eunice; Bli-Tu-Dr, N	2581
3002535799	Apache	Hawk Fed B 1 026	O	K-9	4200	Penrose Skelly; Grayburg	2607
3002509908	Apache	WBDU 036	I	K-9	6773	Eunice; Bli-Tu-Dr, N	2624
3002506623	Apache	WBDU 057	I	A-16	6699	Eunice; Bli-Tu-Dr, N	2640

3002506445	Apache	WBDU 010	I	A-9	8473	Eunice; Bli-Tu-Dr, N	2641
3002506471	XTO	New Mexico V State 009	S	K-10	8240	Grayburg-San Andres	2653

BLINEBRY PENETRATORS IN WBDU 38 AREA OF REVIEW

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 176	Plan	6851	Eunice; Bli-Tu-Dr, N	O	11	8.625	1400	450 sx	GL	N/A
30-025-43222					7.875	5.5	6851	900 sx	GL	N/A
O-9-21S-37E										
WBDU 052	2/2/07	6870	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1296	600 sx	GL	Circ
30-025-38198					7.875	5.5	6870	1500 sx	300	CBL
O-9-21S-37E										
WBDU 051	3/6/07	6837	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1307	575 sx	GL	Circ
30-025-38197					7.875	5.5	6895	1150 sx	227	CBL
O-9-21S-37E										
WBDU 049	8/23/06	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1323	550 sx	GL	Circ
30-025-37743					7.875	5.5	6950	1400 sx	200	CBL
J-9-21S-37E										

BLINEBRY PENETRATORS IN WBDU 38 AREA OF REVIEW

WBDU 050	9/8/06	6875	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1288	600 sx	GL	Circ
30-025-37744					7.875	5.5	6875	1625 sx	590	CBL
J-9-21S-37E										
WBDU 188	Plan	7200	Eunice; Bli-Tu-Dr, N	I	11	8.625	1380	440 sx	GL	N/A
30-025-42569					7.875	5.5	7200	975 sx	GL	N/A
N-9-21S-37E										
WBDU 178	11/22/14	6948	Eunice; Bli-Tu-Dr, N	I	11	8.625	1297	575 sx	GL	Circ 178 sx
30-025-41547					7.875	5.5	6955	1575 sx	GL	Circ 339 sx
B-16-21S-37E										
WBDU 220	Plan	7000	Eunice; Bli-Tu-Dr, N	O	11	8.625	1390	450 sx	N/A	N/A
30-025-43172					7.875	5.5	7000	1250 sx	GL	
I-9-21S-37E										

BLINEBRY PENETRATORS IN WBDU 38 AREA OF REVIEW

WBDU 033	2/26/48	6695	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	200	200 sx	GL	Circ
30-025-06438					12.25	9.625	2789	500 sx	1400	Estimated
J-9-21S-37E					8.75	7	6694	500 sx	3434	Temp Survey
Harry Leonard NCT E 003	9/10/48	6710	Penrose Skelly; Grayburg	O	17.25	13.325	304	300 sx	GL	Circ
30-025-06622					12.25	9.625	2800	1200 sx	GL	Circ
B-16-21S-37E					8.75	7	6649	700 sx	3200	Temp Survey
WBDU 037	8/25/48	6750	Eunice; Bli-Tu-Dr, N	I	17	13.375	232	200 sx	GL	Circ
30-025-06439					12.25	9.625	2779	500 sx	1720	Temp Survey
P-9-21S-37E					8.75	7	6723	800 sx	2750	Temp Survey
WBDU 175	Plan	6900	Eunice; Bli-Tu-Dr, N	O	11	8.625	1300	450 sx	GL	N/A
30-025-43127					7.875	5.5	6900	900 sx	GL	N/A
C-16-21S-37E										

BLINEBRY PENETRATORS IN WBDU 38 AREA OF REVIEW

Hawk Fed B 1 006	6/26/48	7530	Eunice Monument; Grayburg S-A	O	17.5	13.375	220	200 sx	GL	Circ
30-025-09907					12.5	9.625	2779	550 sx	1447	No report
N-9-21S-37E					8.75	7	6680	950 sx	1960	CBL
WBDU 142	10/9/13	6849	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1329	505 sx	GL	Circ
30-025-41262					7.875	5.5	6856	1320 sx	272	Estimated
P-9-21S-37E										
State C Tract 12 021	7/26/05	7300	Wantz; Abo	O	12.25	8.625	1287	600 sx	GL	Circ 116 sx
30-025-37202					7.875	5.5	7300	1400 sx	390	CBL
C-16-21S-37E										
Harry Leonard NCT E 006	1/1/76	6720	Penrose Skelly; Grayburg	O	11	8.625	1305	550 sx	GL	Circ
30-025-25198					7.875	5.5	6720	1050 sx	47	Tagged
A-16-21S-37E										

BLINEBRY PENETRATORS IN WBDU 38 AREA OF REVIEW

WBDU 112	1/28/11	6965	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1340	665 sx	GL	Circ 29 sx
30-025-39442					7.875	5.5	6965	1285 sx	GL	Circ 117 sx
P-9-21S-37E										
State C TR 12 006	2/11/48	5762	Eunice; Bli-Tu-Dr, N	P & A	17.5	13.375	312	300 sx	GL	Circ
30-025-06627					12	9.625	1385	600 sx	No report	No report
C-16-21S-37E					8.75	fish	5762	N/A	N/A	N/A
WBDU 045	9/16/03	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1330	600 sx	GL	Circ 67 sx
30-025-36344					7.875	5.5	6900	1250 sx	130	CBL
N-9-21S-37E										
WBDU 036	5/14/48	6773	Eunice; Bli-Tu-Dr, N	I	15	13.375	226	200 sx	GL	Circ
30-025-09908					12.25	9.625	2790	500 sx	1650	Temp Survey
K-9-21S-37E					8.75	7	6706	940 sx	2675	Temp Survey

BLINEBRY PENETRATORS IN WBDU 38 AREA OF REVIEW

WBDU 042	4/13/63	6780	Eunice; Bli-Tu-Dr, N	I	No report	9.325	1294	450 sx	GL	Circ
30-025-20178					No report	5.5	6750	500 sx	2300	Temp Survey
I-9-21S-37E										
WBDU 057	7/16/63	6699	Eunice; Bli-Tu-Dr, N	I	17.25	13.375	297	300 sx	GL	Circ
30-025-06623					12.25	9.625	2800	1300 sx	540	Temp Survey
A-16-21S-37E					8.75	7	6645	700 sx	2550	Temp Survey
WBDU 060	2/22/54	6699	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	297	300 sx	GL	Circ
30-025-06628					12.25	9.625	2953	1500 sx	GL	Circ
C-16-21S-37E					8.75	7	6694	1000 sx	GL	Circ
WBDU 167	Plan	6900	Eunice; Bli-Tu-Dr, N	O	11	8.625	1300	450 sx	GL	N/A
30-025-43126					7.875	5.5	6900	900 sx	GL	N/A
B-16-21S-37E										

BLINEBRY PENETRATORS IN WBDU 38 AREA OF REVIEW

WBDU 098	6/15/09	6880	Penrose Skelly; Grayburg	O	12.25	8.625	1313	450 sx	GL	Circ
30-025-39119					7.875	5.5	6880	1050 sx	GL	Circ
B-16-21S-37E										
WBDU 054	4/18/07	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1320	575 sx	GL	Circ
30-025-38200					7.875	5.5	6900	1000 sx	207	CBL
J-9-21S-37E										
WBDU 053	2/16/07	6885	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1309	600 sx	GL	Circ
30-025-38199					7.875	5.5	6885	1100 sx	170	CBL
I-9-21S-37E										
WBDU 244	Plan	6850	Eunice; Bli-Tu-Dr, N	O	11	8.625	1400	450 sx	GL	N/A
30-025-43223					7.875	5.5	6850	900 sx	GL	N/A
K-9-21S-37E										

BLINEBRY-PENETRATORS IN WBDU 38 AREA OF REVIEW

WBDU 201	08/14/2014	6957	Eunice; Bli-Tu-Dr, N	O	11	8.625	1337	450 sx	GL	Circ 74 sx
30-025-41871					7.875	5.5	6957	1330 sx	GL	Circ 250 sx
G-9-21S-37E										
WBDU 064	4/27/07	6892	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1322	575 sx	GL	Circ
30-025-38268					7.875	5.5	6892	1300 sx	280	CBL
F-16-21S-37E										
WBDU 063	4/5/07	6845	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1286	575 sx	GL	Circ
30-025-38267					7.875	5.5	6845	1600 sx	GL	Circ & CBL
D-16-21S-37E										
WBDU 195	Plan	7000	Eunice; Bli-Tu-Dr, N	O	11	8.625	1360	450 sx	GL	N/A
30-025-43043					7.875	5.5	7000	1250 sx	GL	N/A
F-9-21S-37E										

BLINEBRY PENETRATORS IN WBDU 38 AREA OF REVIEW

NEDU 527	9/2/05	6862	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1283	575 sx	GL	Circ 116 sx
30-025-37242					7.875	5.5	6862	1150 sx	208	CBL
M-10-21S-37E										
WBDU 239	Plan	7000	Eunice; Bli-Tu-Dr, N	O	11	8.625	1390	500 sx	GL	N/A
30-025-43045					7.875	5.5	7000	1250 sx	GL	N/A
I-9-21S-37E										
NEDU 526	11/27/04	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1278	575 sx	GL	Circ 113 sx
30-025-36809					7.875	5.5	6900	1100 sx	220	No report
D-15-21S-37E										
WBDU 202	8/25/14	6937	Eunice; Bli-Tu-Dr, N	O	11	8.625	1331	450 sx	GL	Circ 103 sx
30-025-41872					7.875	5.5	6939	1300 sx	GL	Circ 140 sx
G-9-21S-37E										

BLINEBRY PENETRATORS IN WBDU 38 AREA OF REVIEW

WBDU 166	Plan	6900	Eunice; Bli-Tu-Dr, N	O	11	8.625	1300	450 sx	GL	N/A
30-025-43125					7.875	5.5	6900	900 sx	GL	N/A
F-16-21S-37E										
Southland Royalty A 002H	11/28/13	6926	Wantz; Abo	O	17.5	13.375	1304	1085 sx	GL	Circ 30 bbls, 96 sx
30-025-41435					11	8.625	6204	1225 sx	GL	calc
H-9-21S-37E					7.875	5.5	11229	1300 sx	GL	circ 73 sx
WBDU 168	11/14/14	6982	Eunice; Bli-Tu-Dr, N	I	11	8.625	1293	575 sx	GL	Circ 168 sx
30-025-41548					7.875	5.5	6945	1921 sx	GL	Circ 270 sx
G-16-21S-37E										
WBDU 113	9/15/09	6912	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1342	650 sx	GL	Circ
30-025-39277					7.875	5.5	6912	1000 sx	200	CBL
A-16-21S-37E										

BLINEBRY PENETRATORS IN WBDU 38 AREA OF REVIEW

WBDU 039	2/14/49	6770	Eunice; Bli-Tu-Dr, N	I	15	13.375	200	250 sx	GL	Circ
30-025-06441					12.25	9.625	2824	500 sx	1210	Temp Survey
M-9-21S-37E					8.75	7	6769	750 sx	3011	Temp Survey
Harry Leonard NCT E 001	10/4/05	6670	Eunice; Bli-Tu-Dr, N	O	17.25	13.325	294	300 sx	GL	Circ
30-025-06620					12.25	9.625	2950	1300 sx	1345	Temp Survey
G-16-21S-37E					8.75	7	6610	700 sx	1360	Temp Survey
WBDU 005	7/7/47	7569	Wantz; Abo	I	17.25	13.375	237	248 sx	GL	Circ
30-025-06442					12	9.625	3800	1500 sx	2050	estimated
G-9-21S-37E					8.75	7	6684	600 sx	5175	Temp Survey

BLINEBRY PENETRATORS IN WBDU 39 AREA OF REVIEW

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 063	4/5/07	6845	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1286	575 sx	GL	Circ
30-025-38267					7.875	5.5	6845	1600 sx	GL	Circ & CBL
D-16-21S-37E										
WBDU 045	9/16/03	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1330	600 sx	GL	Circ 67 sx
30-025-36344					7.875	5.5	6900	1250 sx	130	CBL
N-9-21S-37E										
State C Tract 12 Com 001Y	10/20/13	6872	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	1324	1095 sx	GL	Circ 90 sx
30-025-41454					11	8.625	6083	1350 sx	480	Temp Survey
D-16-21S-37E					7.875	5.5	11219	1595 sx	35	CBL
WBDU 070	3/6/07	6925	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1302	575 sx	GL	Circ
30-025-38205					7.875	5.5	6925	1100 sx	245	CBL
A-17-21S-37E										

BLINEBRY PENETRATORS IN WBDU 39 AREA OF REVIEW

WBDU 048	7/23/06	6950	Wantz; Abo	O	12.25	8.625	1330	612 sx	GL	Circ
30-025-37742					7.875	5.5	6950	1100 sx	195	CBL
I-8-21S-37E										
WBDU 061	6/6/49	6690	Eunice; Bli-Tu-Dr, N	I	17	13.375	335	300 sx	GL	Circ
30-025-06629					12	9.625	2898	1500 sx	675	Temp Survey
D-16-21S-37E					8.75	5.5	6629	1300 sx	2700	Temp Survey
WBDU 035	7/16/65	6707	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	210	200 sx	GL	Circ
30-025-09910					12.25	9.625	2794	500 sx	1806	no report
L-9-21S-37E					8.75	7	6689	750 sx	2675	Temp Survey
WBDU 040	11/12/49	6758	Eunice; Bli-Tu-Dr, N	I	17	13.375	229	250 sx	GL	Circ
30-025-06433					12.25	9.625	2818	1100 sx	1375	Temp Survey
P-8-21S-37E					8.75	7	6753	625 sx	2321	Temp Survey

BLINEBRY PENETRATORS IN WBDU 39 AREA OF REVIEW

Hawk Fed B.1 006	6/26/48	7530	Eunice Monument; Grayburg S-A	O	17.5	13.375	220	200 sx	GL	Circ
30-025-09907					12.5	9.625	2779	550 sx	1447	No report
N-9-21S-37E					8.75	7	6680	950 sx	1960	CBL
WBDU 244	Plan	6850	Eunice; Bli-Tu-Dr, N	O	11	8.625	1400	450 sx	GL	N/A
30-025-43223					7.875	5.5	6850	900 sx	GL	N/A
K-9-21S-37E										
WBDU 188	Plan	7200	Eunice; Bli-Tu-Dr, N	O	11	8.625	1380	440 sx	GL	N/A
30-025-42569					7.875	5.5	7200	975 sx	GL	N/A
N-9-21S-37E										
WBDU 175	Plan	6900	Eunice; Bli-Tu-Dr, N	O	11	8.625	1300	450 sx	GL	N/A
30-025-43127					7.875	5.5	6900	900 sx	GL	N/A
C-16-21S-37E										

BLINEBRY PENETRATORS IN WBDU 39 AREA OF REVIEW

WBDU 036	5/14/48	6773	Eunice; Bli-Tu-Dr, N	I	15	13.375	226	200 sx	GL	Circ
30-025-09908					12.25	9.625	2790	500 sx	1650	Temp Survey
K-9-21S-37E					8.75	7	6706	940 sx	2675	Temp Survey
WBDU 067	12/31/49	6770	Eunice; Bli-Tu-Dr, N	W	16	13.375	228	250 sx	GL	Circ
30-025-06639					12.5	9.625	2819	900 sx	675	Temp Survey
A-17-21S-37E					8.75	7	6767	650 sx	3325	Temp Survey
State C TR 12 006	2/10/48	5762	Drinkard	P&A	17.5	13.375	300	300 sx	GL	Circ
30-025-06627					12	9.625	1400	600 sx	No report	No report
C-16-21S-37E					8.75	fish	5762	N/A	N/A	N/A
WBDU 041	12/1/50	6775	Eunice; Bli-Tu-Dr, N	I	16.25	13.375	213	250 sx	GL	Circ
30-025-06434					12.25	9.625	2684	1750 sx	1300	Temp Survey
I-8-21S-37E					10.75	7	6774	822 sx	2804	Temp Survey

BLINEBRY PENETRATORS IN WBDU 39 AREA OF REVIEW

WBDU 130	Plan	7200	Eunice; Bli-Tu-Dr, N	O	11	8.625	1375	440 sx	GL	N/A
30-025-42495					7.875	5.5	7200	975 sx	GL	N/A
A-17-21S-37E										
State C Tract 12 021	7/26/05	7300	Wantz; Abo	O	12.25	8.625	1287	600 sx	GL	Circ 116 sx
30-025-37202					7.875	5.5	7300	1400 sx	390	CBL
C-16-21S-37E										
WBDU 060	2/22/54	6699	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	297	300 sx	GL	Circ
30-025-06628					12.25	9.625	2953	1500 sx	GL	Circ
C-16-21S-37E					8.75	7	6694	1000 sx	GL	Circ
WBDU 124	10/24/11	7300	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1352	710 sx	GL	Circ 102 sx
30-025-40274					7.875	5.5	7300	1225 sx	278	CBL
P-8-21S-37E										

BLINEBRY PENETRATORS IN WBDU 39 AREA OF REVIEW

WBDU 031	3/27/07	6945	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1315	575 sx	GL	Circ
3002538196					7.875	5.5	6945	1150 sx	230	CBL
E-9-21S-37E										
WBDU 062	7/24/03	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1132	550 sx	GL	Circ 232 sx
30-025-36305					7.875	5.5	6950	1275 sx	GL	Circ 126 sx
D-16-21S-37E										
WBDU 071	3/17/07	6905	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1300	575 sx	GL	Circ
30-025-38206					7.875	5.5	6905	1150 sx	240	CBL
A-17-21S-37E										
WBDU 055	10/27/06	6975	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1290	600 sx	GL	Circ
30-025-38521					7.875	5.5	6975	1250 sx	700	CBL
I-8-21S-37E										

BLINEBRY PENETRATORS IN WBDU 39 AREA OF REVIEW

WBDU 051	3/6/07	6837	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1307	575 sx	GL	Circ
30-025-38197					7.875	5.5	6895	1150 sx	227	CBL
O-9-215-37E										
WBDU 046	6/10/05	7383	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1420	650 sx	GL	Circ 87 sx
30-025-37020					7.875	5.5	7383	1300 sx	160	CBL
J-8-215-37E										
WBDU 195	Plan	7000	Eunice; Bli-Tu-Dr, N	O	11	8.625	1360	500 sx	GL	N/A
30-025-43043					7.875	5.5	7000	1250 sx	GL	N/A
F-9-215-37E										
WBDU 049	8/23/06	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1323	550 sx	GL	Circ
30-025-37743					7.875	5.5	6950	1400 sx	200	CBL
J-9-215-37E										

BLINEBRY PENETRATORS IN WBDU 39 AREA OF REVIEW

WBDU 166	Plan	6900	Eunice; Bli-Tu-Dr, N	O	11	8.625	1300	450 sx	GL	N/A
30-025-43125					7.875	5.5	6900	900 sx	GL	N/A
F-16-21S-37E										
WBDU 185	Plan	7200	Eunice; Bli-Tu-Dr, N	O	11	8.625	1375	440 sx	GL	N/A
30-025-42493					7.875	5.5	7200	975 sx	GL	N/A
O-8-21S-37E										
WBDU 065	11/16/51	6684	Eunice; Bli-Tu-Dr, N	O	12.5	10.75	282	250 sx	GL	Circ
30-025-06642					8.75	7.625	2759	1100 sx	GL	Circ 200 sx
B-17-21S-37E					6.625	5.5	6582	200 sx	2600	Temp Survey
WBDU 038	11/4/48	6770	Eunice; Bli-Tu-Dr, N	I	17	13.375	212	200 sx	GL	Circ
30-025-09906					12.25	9.625	2794	500 sx	1950	Temp Survey
O-9-21S-37E					8.75	7	6767	900 sx	2700	Temp Survey

BLINEBRY PENETRATORS IN WBDU 39 AREA OF REVIEW

WBDU 064	4/27/07	6892	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1322	575 sx	GL	Circ
30-025-38268					7.875	5.5	6892	1300 sx	280	CBL
F-16-21S-37E										
WBDU 058	7/5/72	6660	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	326	300 sx	GL	Circ
30-025-06625					12	9.625	2902	1500 sx	1560	Temp Survey
E-16-21S-37E					8.75	7	6660	270 sx	1900	Temp Survey
WBDU 021	2/11/48	6710	Eunice; Bli-Tu-Dr, N	I	No report	13.375	224	200 sx	GL	Circ
3002506440					No report	9.625	2799	550 sx	GL	Circ
E-9-21S-37E					No report	7	6684	500 sx	3850	Temp Survey

BLINEBRY PENETRATORS IN WBDU 42 AREA OF REVIEW

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 239	Plan	7000	Eunice; Bli-Tu-Dr, N	O	11	8.625	1390	500 sx	GL	N/A
30-025-43045					7.875	5.5	6954	1250 sx	GL	N/A
I-9-21S-37E										
WBDU 220	Plan	7000	Eunice; Bli-Tu-Dr, N	O	11	8.625	1390	500 sx	GL	N/A
30-025-43172					7.875	5.5	7000	1250 sx	GL	N/A
I-9-21S-37E										
WBDU 112	1/28/11	6965	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1340	665 sx	GL	Circ 29 sx
30-025-39442					7.875	5.5	6965	1285 sx	GL	Circ 117 sx
P-9-21S-37E										
Southland Royalty A 002H	11/28/13	6926	Wantz; Abo	O	17.5	13.375	1304	1085 sx	GL	Circ 30 bbls, 96 sx
30-025-41435					11	8.625	6204	1225 sx	GL	calc.
H-9-21S-37E					7.875	5.5	11229	1300 sx	GL	Circ 73 sx

BLINEBRY PENETRATORS IN WBDU 42 AREA OF REVIEW

WBDU 053	2/16/07	6885	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1309	600 sx	GL	Circ
30-025-38199					7.875	5.5	6885	1100 sx	170	CBL
I-9-21S-37E										
WBDU 050	9/8/06	6875	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1288	600 sx	GL	Circ
30-025-37744					7.875	5.5	6875	1625 sx	590	CBL
J-9-21S-37E										
WBDU 016	6/7/05	7298	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1282	625 sx	GL	Circ 149 sx
30-025-37200					7.875	5.5	7298	1450 sx	110	CBL
H-9-21S-37E										
NEDU 422	10/4/05	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1267	575 sx	GL	Circ 98 sx
30-025-37444					7.875	5.5	6900	1400 sx	250	CBL
E-10-21S-37E										
NEDU 527	9/2/05	6862	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1283	575 sx	GL	Circ 116 sx
30-025-37242					7.875	5.5	6862	1150 sx	208	CBL
M-10-21S-37E										

BLINEBRY PENETRATORS IN WBDU 42 AREA OF REVIEW

NEDU 514	12/27/1990	5990	Eunice; Bli-Tu-Dr, North	O	17.5	13.725	410	450 sx	GL	Circ 150 sx
30-025-30913					12.25	8.625	3014	1650 sx	GL	Circ 385 sx
L-10-21S-37E					7.875	5.5	6827	1055 sx	no report	no report
WBDU 037	8/25/48	6750	Eunice; Bli-Tu-Dr, N	I	17	13.375	232	200 sx	GL	Circ
30-025-06439					12.25	9.625	2779	500 sx	1720	Temp Survey
P-9-21S-37E					8.75	7	6723	800 sx	2750	Temp Survey
WBDU 009	12/19/53	7200	Eunice; Bli-Tu-Dr, N	I	17	13.375	252	275 sx	GL	Circ
30-025-06444					12.25	9	2856	1380 sx	GL	Circ 75 sx
H-9-21S-37E					7.875	5.5	6872	180 sx	5325	Temp Survey
WBDU 033	2/26/48	6695	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	200	200 sx	GL	Circ
30-025-06438					12.25	9.625	2789	500 sx	1400	Estimated
J-9-21S-37E					8.75	7	6694	500 sx	3434	Temp Survey
WBDU 202	8/25/14	6937	Eunice; Bli-Tu-Dr, N	O	11	8.625	1331	450 sx	GL	Circ 103 sx
30-025-41872					7.875	5.5	6939	1300 sx	GL	Circ 140 sx
G-9-21S-37E										

BLINEBRY PENETRATORS IN WBDU 42 AREA OF REVIEW

State 10.002	1/18/03	7505	Wantz; Abo	O	12.25	8.625	1275	600 sx	GL	No report
30-025-36070					7.875	5.5	7503	1800 sx	2240	CBL
E-10-21S-37E										
WBDU 111	2/4/12	7199	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1345	675 sx	GL	Circ 234 sx
30-025-40363					7.875	5.5	7215	980 sx	1880	CBL
H-9-21S-37E										
WBDU 206	10/15/14	6910	Eunice; Bli-Tu-Dr, N	O	11	8.625	1333	450 sx	GL	Circ 64 sx
30-025-41873					7.875	5.5	6930	1450 sx	GL	Circ 210 sx
H-9-21S-37E										
NEDU 540	2/16/14	6955	Eunice; Bli-Tu-Dr, N	O	11	8.625	1290	600 sx	GL	Circ 106 sx
30-025-41588					7.875	5.5	6955	1250 sx	GL	Circ 109 sx
L-10-21S-37E										
NEDU 562	7/17/13	6978	Eunice; Bli-Tu-Dr, N	O	11	8.625	1310	471 sx	GL	Circ 145 sx
30-025-41161					7.875	5.5	6978	1721 sx	240	Estimated
L-10-21S-37E										

BLINEBRY PENETRATORS IN WBDU 42 AREA OF REVIEW

NEDU 501	4/14/62	5990	Eunice; Bli-Tu-Dr, N	P&A	13.75	10.75	310	200 sx	GL	Circ
30-025-06474					9.875	7.625	2975	200 sx	2100	Temp survey
L-10-21S-37E					6.75	2.875	5989	1200 sx	3000	Temp survey
WBDU 142	10/9/13	6849	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1329	505 sx	GL	Circ 118 sx
30-025-41262					7.875	5.5	6856	1320 sx	272	Estimated
P-9-21S-37E										
NEDU 427	03/10/2013	6955	Eunice; Bli-Tu-Dr, N	O	11	8.625	1299	485 sx	GL	Circ 145 sx
30-025-40851					7.875	5.5	6955	1025 sx	458	radial bond log
E-10-21S-37E										
WBDU 038	11/4/48	6770	Eunice; Bli-Tu-Dr, N	I	17	13.375	212	200 sx	GL	Circ
30-025-09906					12.25	9.625	2794	500 sx	1950	Temp Survey
O-9-21S-37E					8.75	7	6767	900 sx	2700	Temp Survey
NEDU 502	9/24/48	6660	Eunice; Bli-Tu-Dr, N	O	13.75	10.75	316	250 sx	GL	Circ 25 sx
30-025-06463					9.875	7.625	2796	1050 sx	GL	Circ 134 sx
M-10-21S-37E					6.75	5.5	6659	450 sx	2032	Temp Survey

BLINEBRY PENETRATORS IN WBDU 42 AREA OF REVIEW

WBDU 005	7/7/47	7569	Eunice; Bli-Tu-Dr, N	I	17.25	13.375	237	248 sx	GL	Circ
30-025-06442					12	9.625	3800	1500 sx	2050	estimate
G-9-21S-37E					8.75	7	6684	600 sx	5175	Temp Survey
WBDU 049	8/23/06	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1323	550 sx	GL	Circ
30-025-37743					7.875	5.5	6950	1400 sx	200	CBL
J-9-21S-37E										
NM V State 010	3/21/52	7939	Hare; San Andres (Gas)	G	17.25	10.75	342	375 sx	GL	Circ 30 sx
30-025-06472					11	7.625	3104	1000 sx	GL	Circ 200 sx
M-10-21S-37E					6.75	5.5	7939	450 sx	1800	No report
WBDU 052	2/2/07	6870	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1296	600 sx	GL	Circ
30-025-38198					7.875	5.5	6870	1500 sx	300	CBL
O-9-21S-37E										
NM V State 005	5/26/51	8403	Penrose Skelly; Grayburg	O	17.5	12.75	329	400 sx	GL	Circ 75 sx
30-025-06467					11	8.625	3100	1000 sx	GL	Circ 150 sx
M-10-21S-37E					6.75	5.5	8403	450 sx	2107	No report

BLINEBRY PENETRATORS IN WBDU 42 AREA OF REVIEW

WBDU 054	4/18/07	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1320	575 sx	GL	Circ
30-025-38200					7.875	5.5	6900	1000 sx	207	CBL
J-9-21S-37E										
NEDU 523	3/17/00	6860	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1203	460 sx	GL	Circ 122 sx
30-025-34799					7.875	5.5	6860	1375 sx	GL	Circ 46 sx
L-10-21S-37E										
WBDU 201	08/14/2014	6957	Eunice; Bli-Tu-Dr, N	O	11	8.625	1337	450 sx	GL	Circ 74 sx
30-025-41871					7.875	5.5	6957	1330 sx	GL	Circ 250 sx
G-9-21S-37E										
WBDU 176	Plan	6851	Eunice; Bli-Tu-Dr, N	O	11	8.625	1400	450 sx	GL	N/A
30-025-43222					7.875	5.5	6851	900 sx	GL	N/A
O-9-21S-37E										
NEDU 402	2/27/53	8158	Eunice; Bli-Tu-Dr, N	O	no report	10.75	257	250 sx	GL	Circ
30-025-06461					no report	7.625	3128	1280 sx	GL	Circ
E-10-21S-37E					no report	5.5	7669	494 sx	3180	no report

BLINEBRY PENETRATORS IN WBDU 42 AREA OF REVIEW

NEDU 416	3/2/00	6880	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1223	460 sx	GL	Circ 82 sx
30-025-34798					7.875	5.5	6880	1425 sx	GL	Circ 116 sx
K-10-21S-37E										
NEDU 418	9/29/03	6925	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1330	600 sx	GL	Circ 125 sx
30-025-36366					7.875	5.5	6925	1250 sx	80	CBL
D-10-21S-37E										
WBDU 012	9/3/03	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1285	600 sx	GL	Circ 237 sx
30-025-36340					7.875	5.5	6900	1275 sx	50	CBL
B-9-21S-37E										
Harry Leonard NCT E 006	1/1/76	6720	Penrose Skelly; Grayburg	O	11	8.625	1305	550 sx	GL	Circ
30-025-25198					7.875	5.5	6720	1050 sx	47	Tagged
A-16-21S-37E										
NEDU 526	11/27/04	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1278	575 sx	GL	Circ 113 sx
30-025-36809					7.875	5.5	6900	1100 sx	220	No report
D-15-21S-37E										

BLINEBRY PENETRATORS IN WBDU 42 AREA OF REVIEW

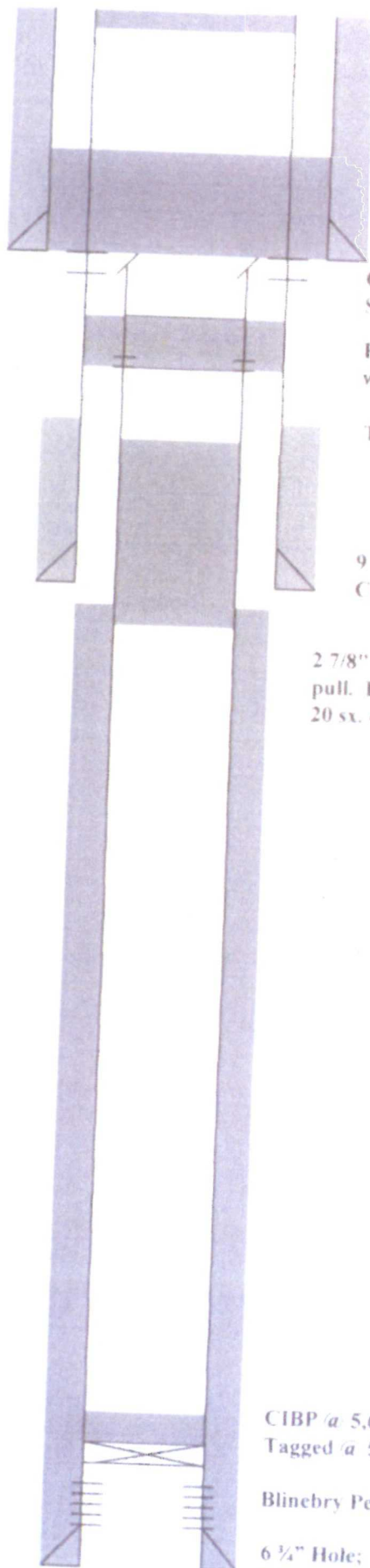
WBDU 196	Plan	7000	Eunice; Bli-Tu-Dr, N	O	11	8.625	1300	715 sx	GL	N/A
30-025-42649					7.875	5.5	7000	950 sx	GL	N/A
G-9-21S-37E										
NEDU 428	3/1/13	6971	Eunice; Bli-Tu-Dr, N	O	11	8.625	1307	475 sx	GL	Circ 95 sx
30-025-40789					7.875	5.5	6971	950 sx	GL	Circ 31 sx
K-10-21S-37E										
WBDU 051	3/6/07	6837	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1307	575 sx	GL	Circ
30-025-38197					7.875	5.5	6895	1150 sx	227	CBL
O-9-21S-37E										
WBDU 014	2/16/05	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1216	575 sx	GL	Circ 116 sx
30-025-37030					7.875	5.5	6900	1100 sx	250	CBL
G-9-21S-37E										
WBDU 036	5/14/48	6773	Eunice; Bli-Tu-Dr, N	I	15	13.375	226	200 sx	GL	Circ
30-025-09908					12.25	9.625	2790	500 sx	1650	Temp Survey
K-9-21S-37E					8.75	7	6706	940 sx	2675	Temp Survey

BLINEBRY PENETRATORS IN WBDU 42 AREA OF REVIEW

WBDU 057	7/16/63	6699	Eunice; Bli-Tu-Dr, N	I	17.25	13.375	297	300 sx	GL	Circ
30-025-06623					12.25	9.625	2800	1300 sx	540	Temp Survey
A-16-21S-37E					8.75	7	6645	700 sx	2550	Temp Survey
WBDU 010	5/8/62	8473	Eunice; Bli-Tu-Dr, N	I	12.25	9.625	1331	580 sx	GL	Circ to surface
30-025-06445					8.75	7	7169	1040 sx	GL	Circ to surface
A-9-21S-37E					6.25	5.5	8473	730 sx	GL	Circ to surface
New Mexico V State 009	8/30/93	8240	SWD; Grayburg-San Andres	S	15	10.75	329	375 sx	GL	Circ 25 sx
30-025-06471					9.875	7.625	3079	1100 sx	550	Temp Survey
K-10-21S-37E					6.75	5.5	8240	450 sx	3550	Temp Survey

Apache Corporation
 Northeast Drinkard Unit No. 501
 API No. 30-025-06474
 1980' FNL & 330' FWL (Unit L)
 Section 10, T-21S, R-37E, NMPM,
 Lea County, New Mexico
 Type Well: Producer

Date Drilled: 4/62
 Date PA'd: 6/05



10 Sx. @ Surface

13 1/4" Hole; 10 1/4" Csg. Set @ 310'. Cemented
 w/200 Sx. Cement Circulated to Surface.

Cut 2 7/8" csg. @ 418'. Perforated 7" csg. @ 360'.
 Squeezed 100 sx. cmt. 200'360'. Tagged @ 210'

Perforated 2 7/8" csg. @ 1,400'. Squeezed
 w/120 sx. Tagged cmt. @ 1,000'

TOC @ 2,100'

9 7/8" Hole; 7 5/8" Csg. Set @ 2,975'
 Cemented w/ 200 Sx. TOC @ 2,100' by T.S.

2 7/8" casing cut @ 3,018'. Could not
 pull. RIH w/ 1 1/2" coiled tubing @ set
 20 sx. cement plug 2,210'-3,078'

CIBP @ 5,610' + Cement
 Tagged @ 5,567'

Blind Perforations: 5,793'-5,936'

6 3/4" Hole; 2 7/8" Csg. Set @ 5,989'
 Cemented w/1200 Sx. TOC @ 3,000' by T.S.

EXHIBIT I

P&A
INJECTION WELL DATA SHEET

OPERATOR:

Stanolind Oil

30-025-06627

spud 2-10-48

WELL NAME & NUMBER:

State C Tract 12 #6

P&A 5-3-48

WELL LOCATION:

660 FNL, 1980 FNL

C

16

215

37E

FOOTAGE LOCATION

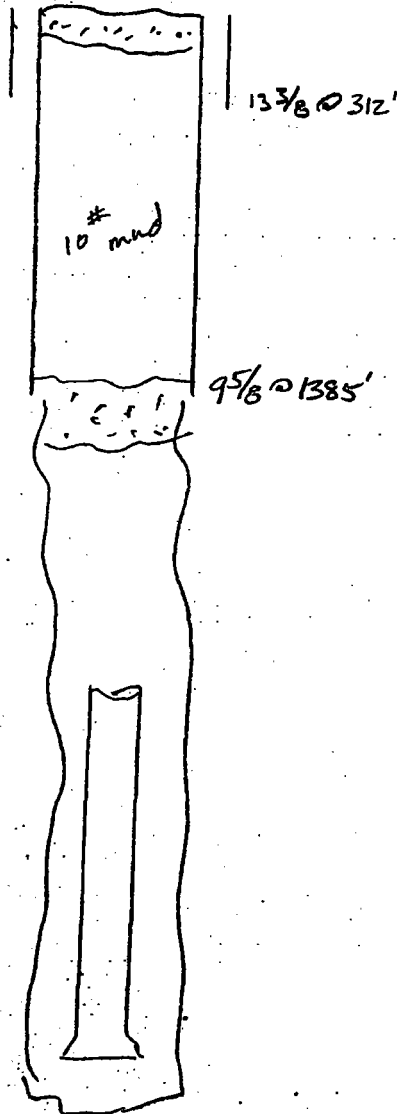
UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATIC



TD = 5762'

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:

Casing Size:

13 3/8

Cemented with:

300

sx.

or

ft

Top of Cement:

Surf

Method Determined:

Circ

Intermediate Casing

Hole Size:

Casing Size:

9 5/8

Cemented with:

600

sx.

or

ft

Top of Cement:

Surf

Method Determined:

Per plugging Rpt.

Production Casing

Hole Size:

Casing Size:

Cemented with:

sx.

or

ft

Top of Cement:

Method Determined:

Total Depth:

Injection Interval

feet to

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size:

Lining Material:

Type of Packer:

Packer Setting Depth:

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

Additional Data

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

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

2. Name of the Injection Formation:

3. Name of Field or Pool (if applicable):

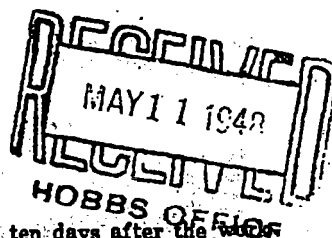
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

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

EXHIBIT I

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

DUPLICATE
MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	X		

May 3, 1948

Hobbs, New Mexico

Date

Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

Stanolind Oil & Gas Company

State G Tract 12

Well No. 6

in the

Company or Operator

Lease

NW 1/4

of Sec. 16

T. 21-S

R. 37-E

N. M. P. M.

Drinkard

Field,

Lea

County.

The dates of this work were as follows: May 2 & 3, 1948

Notice of intention to do the work was (was not) submitted on Form C-102 on

May 1

1948

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Plugged according to approval.

(see form C-102)

Witnessed by Thomas S. Holden Stanolind Oil & Gas Company Head Roustabout
Name Company Title

Subscribed and sworn before me this

3rd

I hereby swear or affirm that the information given above is true and correct.

day of

May

1948

Name

Joseph H. Henshew

Position

FIELD SUPT.

Representing

STANOLIND OIL & GAS CO.

Company or Operator

My commission expires

2-23-50

Address

BOX F, HOBBS, NEW MEXICO

Remarks:

APPROVED

EXHIBIT I

Date

MAY 3 1948

Joe Henshew
Name
OIL & GAS INSPECTOR
Title

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified as to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			X

Hobbs, New Mexico

May 1-48

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the _____

Stanolind Oil & Gas Company State "C" Tract 12 Well No. 6 in NW 1/4
of Sec. 16, T. 21-S, R. 37-E, N. M. P. M., Drinkard Field.
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

This well was spudded 2-10-48 and drilled to total depth of 5762. Drill pipe was stuck and all efforts to recover it failed. We propose to plug by setting a 30-sack cement plug at bottom of 5/8" casing set at 1385-cemented to surface, and a 10-sack plug in top of 9-5/8". All pipe will be left in tact—the hole filled between and below plugs with 10# mud. Cellar will be filled and ground restored to conform with the natural terrain (Confirming telephone-Hendrickson to Iarborough-5/1/48).

Approved _____
except as follows:

MAY 1 1 1948

19

Stanolind Oil & Gas Company

By _____

Position _____

Send communication regarding well to _____

Name _____

Ralph L. Hendrickson

Address _____

Box F; Hobbs, New Mexico

OIL CONSERVATION COMMISSION,

By _____

Title _____

ASST. INSPECTOR

EXHIBIT I



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP00554		LE		2	2	16	21S	37E		672744	3595610*	570	80	70	10
CP00729 POD1	1610 meters	CP	LE	4	1	3	15	21S	37E	673259	3594711*	1591	8015		
CP00552	= 1 mile	LE		2	4	04	21S	37E		672700	3598022*	2048	90	75	15
CP00553		LE		2	4	04	21S	37E		672700	3598022*	2048	90	75	15
CP01141 POD2		LE		3	4	3	15	21S	37E	673541	3594250	2130	40		
CP01141 POD3		LE		3	4	3	15	21S	37E	673541	3594250	2130	40		
CP01141 POD4		LE		3	4	3	15	21S	37E	673541	3594250	2130	45		
CP01575 POD1		CP	LE	1	2	1	22	21S	37E	673543	3594200	2172	40	35	5
CP01575 POD2		CP	LE	2	2	1	22	21S	37E	673610	3594192	2217	35	35	0
CP00731 POD1		CP	LE	2	1	22	21S	37E		673577	3594015*	2347	8130		
CP01185 POD1		LE		1	3	14	21S	37E		674598	3594689	2619	70		
CP01574 POD1		CP	LE	2	4	4	15	21S	37E	674563	3594599	2635	68	57	11
CP01185 POD2		LE		1	3	14	21S	37E		674623	3594674	2648	70		
CP01185 POD3		LE		1	3	14	21S	37E		674592	3594620	2649	70		
CP01185 POD4		LE		1	3	14	21S	37E		674633	3594610	2689	70		
CP00732 POD1		CP	LE	4	1	22	21S	37E		673584	3593613*	2699	6633		
CP01574 POD2		CP	LE	1	3	3	14	21S	37E	674654	3594594	2715	68	57	11
CP01026 POD1		LE		1	1	3	17	21S	37E	669809	3594958	2733	167	95	72
CP00235 POD3		CP	LE	1	1	1	23	21S	37E	674681	3594137*	3000	90	61	29
CP00447 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	3104	95		
CP00448 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*	3104	100		
CP00235 POD7		CP	LE	3	1	1	23	21S	37E	674681	3593937*	3128	85	65	20
CP00895		LE		1	1	20	21S	37E		669957	3593956*	3138	163		
CP00235 POD6		CP	LE	2	1	1	23	21S	37E	674881	3594137*	3159	85	65	20

Average Depth to Water: 62 feet

Minimum Depth: 35 feet

Maximum Depth: 95 feet

Record Count: 24 WBDU 38

EXHIBIT J

UTMNA83 Radius Search (in meters): WBDU 38

Easting (X): 672334

Northing (Y): 3596006

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.

1/25/17 12:05 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

EXHIBIT J



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<u>CP 00554</u>	1610 meters		LE	2	2	16	21S	37E		672744	3595610*	1272	80	70	10
<u>CP 01026 POD1</u>	= 1 mile		LE	1	1	3	17	21S	37E	669809	3594958	2009	167	95	72
<u>CP 00729 POD1</u>		CP	LE	4	1	3	15	21S	37E	673259	3594711*	2152	8015		
<u>CP 00552</u>			LE	2	4	04	21S	37E		672700	3598022*	2340	90	75	15
<u>CP 00553</u>			LE	2	4	04	21S	37E		672700	3598022*	2340	90	75	15
<u>CP 00447 POD1</u>		CP	LE	2	4	4	18	21S	37E	669647	3594451*	2435	95		
<u>CP 00448 POD1</u>		CP	LE	2	4	4	18	21S	37E	669647	3594451*	2435	100		
<u>CP 00676</u>			LE	4	4	18	21S	37E		669548	3594352*	2574	140	106	34
<u>CP 00895</u>			LE	1	1	20	21S	37E		669957	3593956*	2575	163		
<u>CP 01141 POD2</u>			LE	3	4	3	15	21S	37E	673541	3594250	2660	40		
<u>CP 01141 POD3</u>			LE	3	4	3	15	21S	37E	673541	3594250	2660	40		
<u>CP 01141 POD4</u>			LE	3	4	3	15	21S	37E	673541	3594250	2660	45		
<u>CP 01575 POD1</u>		CP	LE	1	2	1	22	21S	37E	673543	3594200	2694	40	35	5
<u>CP 01575 POD2</u>		CP	LE	2	2	1	22	21S	37E	673610	3594192	2751	35	35	0
<u>CP 00986 POD1</u>			LE	4	3	4	06	21S	37E	669110	3597437	2818	154		
<u>CP 00731 POD1</u>		CP	LE	2	1	22	21S	37E		673577	3594015*	2846	8130		
<u>CP 00732 POD1</u>		CP	LE	4	1	22	21S	37E		673584	3593613*	3143	6633		
<u>CP 00985 POD1</u>			LE	4	4	2	19	21S	37E	669595	3593453	3194	160		

Average Depth to Water: 70 feet

Minimum Depth: 35 feet

Maximum Depth: 106 feet

Record Count: 18

UTM NAD83 Radius Search (in meters): WBDU 39

Easting (X): 671531

Northing (Y): 3595994

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.

1/25/17 12:06 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<u>CP00554</u>			LE	2	2	16	21S	37E		672744	3595610*	805	80	70	10
<u>CP00552</u>			LE	2	4	04	21S	37E		672700	3598022*	1607	90	75	15
<u>CP00553</u>			LE	2	4	04	21S	37E		672700	3598022*	1607	90	75	15
<u>CP00729 POD1</u>		CP	LE	4	1	3	15	21S	37E	673259	3594711*	1784	8015		
<u>CP01141 POD2</u>			LE	3	4	3	15	21S	37E	673541	3594250	2311	40		
<u>CP01141 POD3</u>			LE	3	4	3	15	21S	37E	673541	3594250	2311	40		
<u>CP01141 POD4</u>			LE	3	4	3	15	21S	37E	673541	3594250	2311	45		
<u>CP01575 POD1</u>		CP	LE	1	2	1	22	21S	37E	673543	3594200	2358	40	35	5
<u>CP01575 POD2</u>		CP	LE	2	2	1	22	21S	37E	673610	3594192	2390	35	35	0
<u>CP01185 POD1</u>			LE	1	3	14	21S	37E		674598	3594689	2543	70		
<u>CP00731 POD1</u>		CP	LE	2	1	22	21S	37E		673577	3594015*	2545	8130		
<u>CP01185 POD2</u>			LE	1	3	14	21S	37E		674623	3594674	2571	70		
<u>CP01574 POD1</u>		CP	LE	2	4	4	15	21S	37E	674563	3594599	2579	68	57	11
<u>CP01185 POD3</u>			LE	1	3	14	21S	37E		674592	3594620	2586	70		
<u>CP01185 POD4</u>			LE	1	3	14	21S	37E		674633	3594610	2622	70		
<u>CP01574 POD2</u>		CP	LE	1	3	3	14	21S	37E	674654	3594594	2649	68	57	11
<u>CP00732 POD1</u>		CP	LE	4	1	22	21S	37E		673584	3593613*	2929	6633		
<u>CP00235 POD3</u>		CP	LE	1	1	1	23	21S	37E	674681	3594137*	2999	90	61	29
<u>CP00235 POD6</u>		CP	LE	2	1	1	23	21S	37E	674881	3594137*	3133	85	65	20
<u>CP00235 POD7</u>		CP	LE	3	1	1	23	21S	37E	674681	3593937*	3153	85	65	20

Average Depth to Water: 59 feet

Minimum Depth: 35 feet

Maximum Depth: 75 feet

Record Count: 20

UTM NAD83 Radius Search (in meters): WBDU 42

Easting (X): 672730

Northing (Y): 3596415

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.

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

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Geologic Hazards Science Center

EHP Quaternary Faults

Search for fault: Guadalupe

Select a state or region map:

Submit

Submit

Clear Selected Features



EXHIBIT L

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).

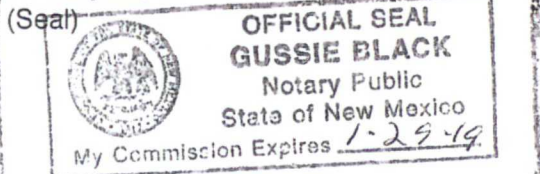
Beginning with the issue dated
January 27, 2017
and ending with the issue dated
January 27, 2017.


Publisher

Sworn and subscribed to before me this
27th day of January 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

LEGAL

LEGAL

LEGAL NOTICE January 27, 2017

Apache Corporation is applying to change the injection interval of 3 existing water injection wells in the West Blinbry Drinkard Unit in Section 9, T. 21 S., R. 37 E., Lea County, NM. Injection will be in the Blinbry, Tubb, and Drinkard zones. Maximum injection rate will be 3,000 bwpd per well. Maximum injection pressure will be 1,120 psi. The wells are 3 miles NNW of Eunice, NM. Well locations and injection intervals are:

WBDU Well	Location	Injection Interval
38	660 FSL & 1980 FEL	5620' - 6736'
39	660 FSL & 660 FWL	5636' - 6756'
42	1980 FSL & 660 FEL	5781' - 6710'

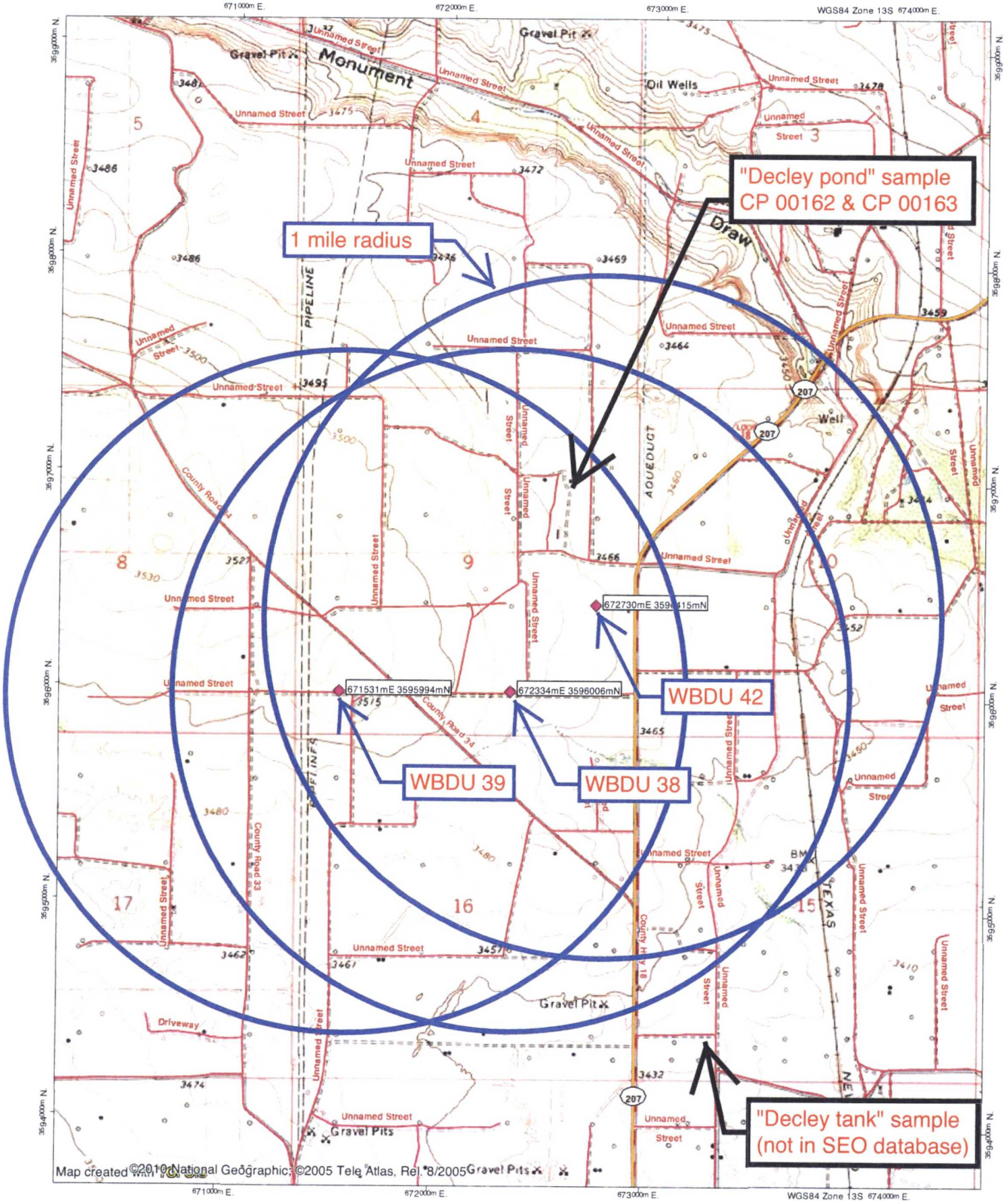
Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting: Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120.
#31509

02108485

00187735

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

EXHIBIT M



Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701C54

Date Reported: 2/10/2017

CLIENT: Permits West

Client Sample ID: Decley Tank

Project: Apache WBDU 38,39,42

Collection Date: 1/28/2017 9:56:00 AM

Lab ID: 1701C54-001

Matrix: AQUEOUS

Received Date: 1/31/2017 12:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	610	25	*	mg/L	50	2/1/2017 3:00:11 PM
EPA METHOD 1664B						Analyst: tnc
N-Hexane Extractable Material	ND	10.9		mg/L	1	2/1/2017
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	1730	20.0	*	mg/L	1	2/1/2017 5:16:00 PM

EXHIBIT K

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1701C54

Date Reported: 2/10/2017

CLIENT: Permits West

Client Sample ID: Decley Pond

Project: Apache WBDU 38,39,42

Collection Date: 1/28/2017 10:13:00 AM

Lab ID: 1701C54-002

Matrix: AQUEOUS

Received Date: 1/31/2017 12:40:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						
Chloride	280	10	*	mg/L	20	1/31/2017 6:13:12 PM
EPA METHOD 1664B						
N-Hexane Extractable Material	ND	9.97		mg/L	1	2/1/2017
SM2540C MOD: TOTAL DISSOLVED SOLIDS						
Total Dissolved Solids	797	20.0	*	mg/L	1	2/1/2017 5:16:00 PM

EXHIBIT K

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701C54

10-Feb-17

Client: Permits West

Project: Apache WBDU 38,39,42

Sample ID: MB-29994	SampType: MBLK	TestCode: EPA Method 1664B								
Client ID: PBW	Batch ID: 29994	RunNo: 40467								
Prep Date: 2/1/2017	Analysis Date: 2/1/2017	SeqNo: 1268219 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-29994	SampType: LCS	TestCode: EPA Method 1664B								
Client ID: LCSW	Batch ID: 29994	RunNo: 40467								
Prep Date: 2/1/2017	Analysis Date: 2/1/2017	SeqNo: 1268220 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

N-Hexane Extractable Material 37.6 10.0 40.00 0 94.0 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

Page 3 of 5

EXHIBIT K

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701C54

10-Feb-17

Client: Permits West

Project: Apache WBDU 38,39,42

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions
Client ID:	PBW	Batch ID:	R40417	RunNo:	40417
Prep Date:		Analysis Date:	1/31/2017	SeqNo:	1266828 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:	R40417	RunNo:	40417
Prep Date:		Analysis Date:	1/31/2017	SeqNo:	1266829 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	4.7	0.50	5.000	0	93.4 90 110

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions
Client ID:	PBW	Batch ID:	R40455	RunNo:	40455
Prep Date:		Analysis Date:	2/1/2017	SeqNo:	1267699 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:	R40455	RunNo:	40455
Prep Date:		Analysis Date:	2/1/2017	SeqNo:	1267700 Units: mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	4.8	0.50	5.000	0	95.7 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



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701C54

10-Feb-17

Client: Permits West
Project: Apache WBDU 38,39,42

Sample ID: MB-29982	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids								
Client ID: PBW	Batch ID: 29982	RunNo: 40441								
Prep Date: 1/31/2017	Analysis Date: 2/1/2017	SeqNo: 1267425			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-29982	SampType: LCS		TestCode: SM2540C MOD: Total Dissolved Solids							
Client ID: LCSW	Batch ID: 29982		RunNo: 40441							
Prep Date: 1/31/2017	Analysis Date: 2/1/2017		SeqNo: 1267426		Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

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



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

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EXHIBIT L



Geologic Hazards Science Center

EHP Quaternary Faults

Search for fault:

Select a state or region map:



EXHIBIT L

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).

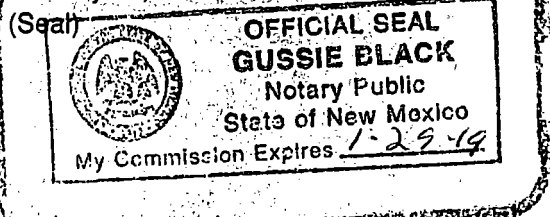
Beginning with the issue dated
January 27, 2017
and ending with the issue dated
January 27, 2017.


Publisher

Sworn and subscribed to before me this
27th day of January 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

LEGAL		
LEGAL NOTICE January 27, 2017		
Apache Corporation is applying to change the injection interval of 3 existing water injection wells in the West Blinbry Drinkard Unit in Section 9, T. 21 S., R. 37 E., Lea County, NM. Injection will be in the Blinbry, Tubbs, and Drinkard zones. Maximum injection rate will be 3,000 bwpd per well. Maximum injection pressure will be 1,120 psi. The wells are 3 miles NNW of Eunice, NM. Well locations and injection intervals are:		
WBDU	Location	Injection Interval
38	660 FSL & 1980 FEL	5620' - 6736'
39	660 FSL & 660 FWL	5636' - 6756'
42	1980 FSL & 660 FEL	5781' - 6710'
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.		
#31509		

02108485

00187735

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

EXHIBIT M

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

February 16, 2017

Millard Deck Estate 4193
3903 Bellaire Blvd.
Houston TX 77025

Apache Corporation is applying (see attached application) to change the water injection interval in 3 of its existing West Blinbry Drinkard Unit wells 3 miles NNW of Eunice, NM. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following project. This letter is a notice only. No action is needed unless you have questions or objections.

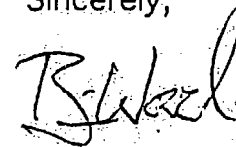
WBDU Well	9-21s-37e Lea County NM	Proposed Blinbry - Drinkard Injection Interval	Proposed TD
38	660 FSL & 1980 FEL	5620' - 6736'	6770'
39	660 FSL & 660 FWL	5636' - 6756'	6770'
42	1980 FSL & 660 FEL	5781' - 6710'	6780'

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

Submittal Information: Application for injection 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. NMOCD address is 1220 South St. Francis Dr. Santa Fe, NM 87505. NMOCD phone is (505) 476-3440.

Please call me if you have any questions.

Sincerely,



Brian Wood

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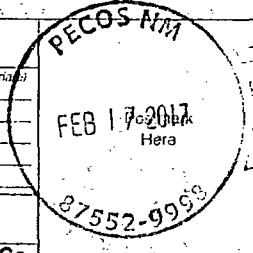
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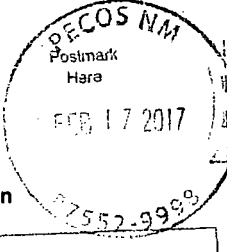
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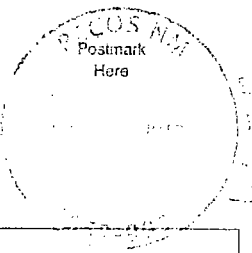
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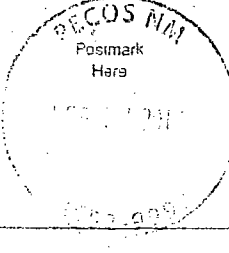


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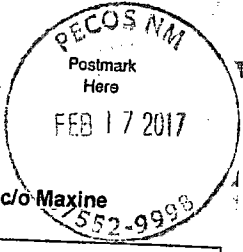
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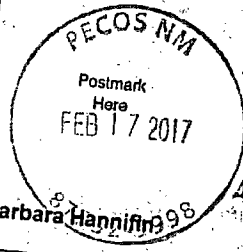
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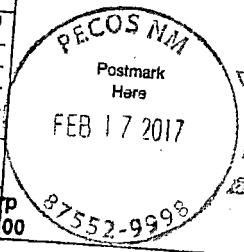
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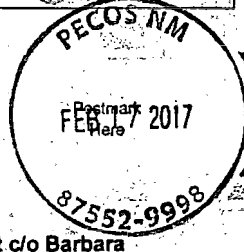
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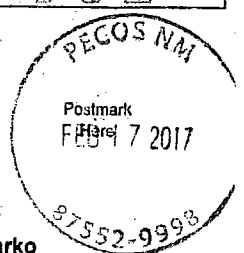
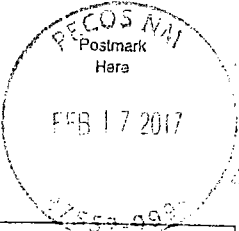
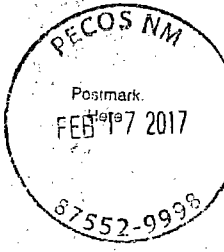


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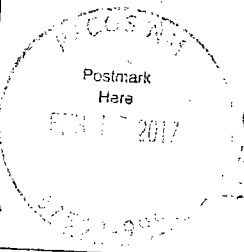
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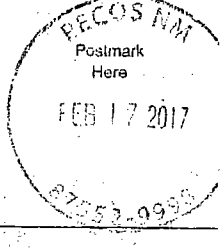
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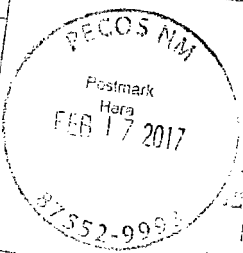
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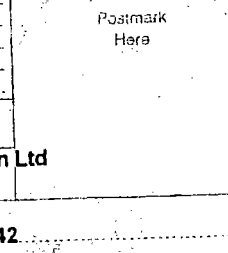
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PO Box 5562
Midland TX 79704
APC WBDU 38,39,42

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13601 Preston, #406E
Dallas TX 75240
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Six Aeches Co
902 County Club
Midland TX 79701
APC WBDU 38,39,42

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

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

EXHIBIT N



1/25/2017

Phillip R Goetze, PG
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Request for Injection Interval Amendment for WBDU #38W (30-025-09906)

Dear Mr. Goetze:

The West Blinebry Drinkard Unit (WBDU) is currently undergoing an extensive conformance project to isolate the Drinkard formation and inject all produced/makeup water into this zone. Most of the conformance work in the area has permitted Apache to run a 4-1/2" liner from PBDT to surface to shut off the Blinebry and Tubb and isolate the Drinkard for Injection, with the exception of a few federal Injection wells, including the WBDU #38W.

The WBDU #38W is an active Blinebry, Tubb and Drinkard well that was converted to injection in 2009. Running a 4-1/2" liner from PBDT to surface was cost prohibitive, so Apache attempted to cement squeeze the Blinebry from 5620'-6042'. The initial Blinebry squeeze was pumped through a cement retainer using 500 sacks of cement. The well was cleaned out and the casing tested to 500 psi, losing 100 psi in 5 minutes. A second squeeze was attempted using 24 bbls of Class C cement but after cleaning the well out, the casing was tested to 400 psi and lost 200 psi in 30 minutes. Finally a dump bailer was used to spot cement across the known leaking interval and this too was unsuccessful after the casing was tested to 500 psi but lost 140 psi in 30 minutes.

Due to escalating costs, Apache would like to request an amendment to the injection interval to allow the injection packer to be set above the squeezed Blinebry perforations (+/-5600'). It is believed that the majority of the water will be injected into the Drinkard formation, with a minimal amount of fluid leaking off into the Blinebry. This should have minimal impact on the waterflood pattern performance, and an injection profile log will be collected after the work is performed to confirm these suspicions.

If you have any questions, please feel free to email me at kris.hasselbach@apachecorp.com or call my office directly at 432.818.1957.

Sincerely,

Kris Hasselbach
Apache Corporation
Production Engineer – Permian Region



1/25/2017

Phillip R Goetze, PG
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Request for Injection Interval Amendment for WBDU #39W (30-025-06441)

Dear Mr. Goetze:

The West Blinebry Drinkard Unit (WBDU) is currently undergoing an extensive conformance project to isolate the Drinkard formation and inject all produced/makeup water into this zone. Most of the conformance work in the area has permitted Apache to run a 4-1/2" liner from PBTD to surface to shut off the Blinebry and Tubb and isolate the Drinkard for injection, with the exception of a few federal injection wells, including the WBDU #39W.

The WBDU #39W is an active Blinebry, Tubb and Drinkard well that was converted to injection in 2009. Running a 4-1/2" liner from PBTD to surface was cost prohibitive, so Apache attempted to cement squeeze the Blinebry from 5636'-6058'. The initial Blinebry squeeze was pumped through a cement retainer using 500 sacks of cement. The wellbore was cleaned out and tested to 500 psi but lost 180 psi after 5 minutes. Micro matrix was then spotted across the Blinebry and squeezed into the tight leak. This squeeze was also unsuccessful, losing 80 psi in 10 minutes.

Due to escalating costs, Apache would like to request an amendment to the injection interval to allow the injection packer to be set above the squeezed Blinebry perforations (+/-5600'). It is believed that the majority of the water will be injected into the Drinkard formation, with a minimal amount of fluid leaking off into the Blinebry. This should have minimal impact on the waterflood pattern performance, and an injection profile log will be collected after the work is performed to confirm these suspicions.

If you have any questions, please feel free to email me at kris.hasselbach@apachecorp.com or call my office directly at 432.818.1957.

Sincerely,

Kris Hasselbach
Apache Corporation
Production Engineer – Permian Region



1/25/2017

Phillip R Goetze, PG
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Request for Injection Interval Amendment for WBDU #42W (30-025-20178)

Dear Mr. Goetze:

The West Blinebry Drinkard Unit (WBDU) is currently undergoing an extensive conformance project to isolate the Drinkard formation and inject all produced/makeup water into this zone. Most of the conformance work in the area has permitted Apache to run a 4-1/2" liner from PBTD to surface to shut off the Blinebry and Tubb and isolate the Drinkard for injection, with the exception of a few federal injection wells, including the WBDU #42W.

The WBDU #42W is an active Blinebry, Tubb and Drinkard well that was converted to injection in 2009. Running a 4-1/2" liner from PBTD to surface was cost prohibitive, so Apache attempted to cement squeeze the Blinebry from 5781'-6043'. The initial Blinebry squeeze was pumped through a cement retainer using 500 sacks of cement. The well was cleaned out and the casing tested to 500 psi but lost 130 psi in 10 minutes. Additional squeezes were not performed since the additional squeezes on the WBDU #38W and WBDU #39W were costly and mostly unsuccessful.

Due to escalating costs, Apache would like to request an amendment to the injection interval to allow the injection packer to be set above the squeezed Blinebry perforations (+/-5700'). It is believed that the majority of the water will be injected into the Drinkard formation, with a minimal amount of fluid leaking off into the Blinebry. This should have minimal impact on the waterflood pattern performance, and an injection profile log will be collected after the work is performed to confirm these suspicions.

If you have any questions, please feel free to email me at kris.hasselbach@apachecorp.com or call my office directly at 432.818.1957.

Sincerely,

Kris Hasselbach
Apache Corporation
Production Engineer – Permian Region

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

APC-WBDU 38,39,42

9590 9402 2392 6249 8239 74

2. Article Number (Transfer from service label)
 7016 1370 0000 0859 6256

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

COMPLETE THIS SECTION ON DELIVERY

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

B. Received by (Printed Name)
[Signature]

C. Date of Delivery
 2-21-17

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

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
☐ Insured Mail ☐ Registered Mail Restricted Delivery (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:

Breck Operating Corp.
 PO Box 911
 Breckenridge TX 76242

APC WBDU 38,49,42

9590 9402 1840 6104 1559 00

2. Article Number (Transfer from service label)
 7014 2870 0001 8951 4258

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X *Paula Gussom* ☐ Agent ☐ Addressee

B. Received by (Printed Name)
Paula Gussom

C. Date of Delivery
 2-21-17

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

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
☐ Insured Mail ☐ Registered Mail Restricted Delivery (PSN 7530-02-000-9053)

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1. Article Addressed to:

APC WBDU 38,49,42

9590 9402 1840 6104 1559 00

2. Article Number (Transfer from service label)
 7014 2870 0001 8951 4258

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

COMPLETE THIS SECTION ON DELIVERY

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

B. Received by (Printed Name)
[Signature]

C. Date of Delivery
 2-21-17

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

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
☐ Insured Mail ☐ Registered Mail Restricted Delivery (PSN 7530-02-000-9053)

Domestic Return Receipt

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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:

Chevron USA Prod. Co.
 Box 1635
 Houston TX 77251

APC-WBDU 38,39,42

9590 9402 2392 6249 8239 74

2. Article Number (Transfer from service label)
 7016 1370 0000 0859 6263

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

COMPLETE THIS SECTION ON DELIVERY

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

B. Received by (Printed Name)
[Signature]

C. Date of Delivery
 2-21-17

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

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
☐ Insured Mail ☐ Registered Mail Restricted Delivery (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:

ConocoPhillips Co.
 PO Box 7500
 Bartlesville OK 74005

APC-WBDU 38,39,42

9590 9402 2392 6249 8240 01

2. Article Number (Transfer from service label)
 7016 1370 0000 0859 6267

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

COMPLETE THIS SECTION ON DELIVERY

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

B. Received by (Printed Name)
ConocoPhillips

C. Date of Delivery
 2-21-17

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

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
☐ Insured Mail ☐ Registered Mail Restricted Delivery (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:

ConocoPhillips Co.
 550 Westlake Park Blvd.
 Houston TX 77079

APC-WBDU 38,39,42

9590 9402 2392 6249 8240 18

2. Article Number (Transfer from service label)
 7016 1370 0000 0859 6294

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

COMPLETE THIS SECTION ON DELIVERY

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

B. Received by (Printed Name)
[Signature]

C. Date of Delivery
 2-21-17

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

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
☐ Insured Mail ☐ Registered Mail Restricted Delivery (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:

ConocoPhillips Co.
3401 E. 30th St.
Farmington NM 87402

APC-WBDU 38,39,42

9590 9402 2392 6249 8240 25

2. Article Number (Transfer from service label)

7016 1370 0000 0859 6300

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Eric Ward* ☐ Agent ☐ Addressee

B. Received by (Printed Name)

Eric Ward C. Date of Delivery 2-21-17

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

3. Service Type

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

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:

Millard Deck Estate 4193 c/o Harding & Carbone Inc.
3903 Bellaire Blvd.
Houston TX 77025

APC-WBDU 38,39,42

9590 9402 2392 6249 8240 32

2. Article Number (Transfer from service label)

7016 1370 0000 0859 6317

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *SK* ☐ Agent ☐ Addressee

B. Received by (Printed Name)

Shelly Ross C. Date of Delivery 2-21-17

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

3. Service Type

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

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:

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

APC-WBDU 38,39,42

9590 9402 2392 6249 8240 43

2. Article Number (Transfer from service label)

7016 1370 0000 0859 6324

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *David Cannillo* ☐ Agent ☐ Addressee

B. Received by (Printed Name)

David Cannillo C. Date of Delivery 2-21-17

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

3. Service Type

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

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:

ten Resources Co.
Richard Arrington Jr. Blvd.
Birmingham AL 35203

APC-WBDU 38,39,42

9590 9402 2392 6249 8240 56

2. Article Number (Transfer from service label)

7016 1370 0000 0859 6331

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Barbara Hannifin* ☐ Agent ☐ Addressee

B. Received by (Printed Name)

Barbara Hannifin C. Date of Delivery 2-21-17

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

3. Service Type

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

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:

ExxonMobil Corporation
PO Box 4358
Houston TX 77210

APC-WBDU 38,39,42

9590 9402 2392 6249 8240 63

2. Article Number (Transfer from service label)

7016 1370 0000 0859 6346

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *DC* ☐ Agent ☐ Addressee

B. Received by (Printed Name)

D. C. W. Feb 21 2017 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
- ☐ Insured Mail
- ☐ Mail Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

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:

Barbara Hannifin
PO Box 182
Roswell NM 88202

APC-WBDU 38,39,42

9590 9402 2392 6249 8240 10

2. Article Number (Transfer from service label)

7016 1370 0000 0859 6355

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Barbara Hannifin* ☐ Agent ☐ Addressee

B. Received by (Printed Name)

Barbara Hannifin C. Date of Delivery 2-21-17

D. Is delivery address different from item 1? ☐ Yes ☐ No

If YES, enter delivery address below:

3. Service Type

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

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:

Patrick Hannifin c/o Barbara Hannifin
PO Box 182
Roswell NM 88202

APC-WBDU 38,39,42

9590 9402 2392 6249 8241 00

7016 1370 0000 0859 6379

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* ☐ Agent ☐ AddresseeB. Received by (Printed Name) *[Signature]* C. Date of Delivery *[Signature]*D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below: *[Signature]*

3. Service Type

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

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:

Robert Hannifin Trust c/o Barbara Hannifin
PO Box 182
Roswell NM 88202

APC-WBDU 38,39,42

9590 9402 2392 6249 8241 17

7016 1370 0000 0859 6393

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* ☐ Agent ☐ AddresseeB. Received by (Printed Name) *[Signature]* C. Date of Delivery *[Signature]*D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below: *[Signature]*

3. Service Type

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

Domestic Return Receipt

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

1. Article Addressed to:

John H. Hendrix Corp
6 Desta Dr., Suite 2100
Midland TX 79705

APC-WBDU 38,39,42

9590 9402 2392 6249 8241 24

7016 1370 0000 0859 6409

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* ☐ Agent ☐ AddresseeB. Received by (Printed Name) *[Signature]* C. Date of Delivery *[Signature]*D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below: *[Signature]*

3. Service Type

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

Domestic Return Receipt

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- 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:

Kerr-McGee c/o Anadarko
1099 18th St., Suite 1800
Denver CO 80202

APC-WBDU 38,39,42

9590 9402 2392 6249 8241 31

7016 1370 0000 0859 6416

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* ☐ Agent ☐ AddresseeB. Received by (Printed Name) *[Signature]* C. Date of Delivery *[Signature]*D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below: *[Signature]*

3. Service Type

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

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:

Lanexo Inc.
107 Main
Sealy TX 77474

APC-WBDU 38,39,42

9590 9402 2392 6249 8241 55

7016 1370 0000 0859 6430

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* ☐ Agent ☐ AddresseeB. Received by (Printed Name) *[Signature]* C. Date of Delivery *[Signature]*D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below: *[Signature]*

3. Service Type

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

Robert Lansford
606 Abo
Hobbs NM 88240

APC-WBDU 38,39,42

9590 9402 2392 6249 8241 62

7016 1370 0000 0859 6447

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* ☐ Agent ☐ AddresseeB. Received by (Printed Name) *[Signature]* C. Date of Delivery *[Signature]*D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below: *[Signature]*

3. Service Type

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: NM State Land Office PO Box 1148 Santa Fe NM 87504 APC-WBDII 38,39,42 9590 9402 2392 6249 8241 86 2. Article Number (Transfer from service label) 7016 1370 0000 0859 6461	A. Signature X <i>[Signature]</i> B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery FEB 22 2017 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-6063 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Occidental Permian Ltd PO Box 4294 Houston TX 77210 APC-WBDU 38,39,42 9590 9402 2392 6249 8241 93 2. Article Number (Transfer from service label) 7016 1370 0000 0859 6478	A. Signature X <i>[Signature]</i> B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery 2/21/17 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-6063 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Oxy USA WTP LP PO Box 4294 Houston TX 77210 APC-WBDII 38,39,42 9590 9402 2392 6249 8242 16 2. Article Number (Transfer from service label) 7016 1370 0000 0859 6492	A. Signature X <i>[Signature]</i> B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery 2/21/17 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-6063 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Oxy USA WTP LP 6 Deste Dr. Midland TX 79705 APC-WBDU 38,39,42 9590 9402 2392 6249 8242 09 2. Article Number (Transfer from service label) 7016 1370 0000 0859 6485	A. Signature X <i>[Signature]</i> B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery 2/21/17 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-6063 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Penroc Oil Corp PO Box 2769 Hobbs NM 88241 APC-WBDU 38,39,42 9590 9402 2392 6249 8242 23 2. Article Number (Transfer from service label) 7016 1370 0000 0859 6508	A. Signature X <i>[Signature]</i> B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery 2/21/17 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-6063 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Petro Strategies Inc. PO Box 5562 Midland TX 79704 APC-WBDU 38,39,42 9590 94 2. Article Number (Transfer from service label) 7016 137	A. Signature X <i>[Signature]</i> B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery 2/21/17 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-6063 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.		COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>2-2-17</i> D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
1. Article Addressed to: Tommy Phipps PO Box 11090 Midland TX 79702 APC-WBDU 38.39.42		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 ☐ Insured Mail ☐ Restricted Delivery	
2. Article Number (Transfer from service label) 9590 9402 2392 6249 8242 47 7016 1370 0000 0859 6522		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.		COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>2-15</i> D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
1. Article Addressed to: Sheridan Holding Co II LLC 9 Greenway Plaza Ste 1300 Houston TX 77046-0922 APC-WBDU-65-85		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 ☐ Insured Mail ☐ Restricted Delivery	
2. Article Number (Transfer from service label) 9590 9402 1840 6104 1566 24 7016 1370 0000 0859 5938		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.		COMPLETE THIS SECTION ON DELIVERY A. Signature X <i>[Signature]</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>FEB 2 2017</i> D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
1. Article Addressed to: Six Aches Co 902 County Club Midland TX 79701 APC-WBDU 38.39.42		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 ☐ Insured Mail ☐ Restricted Delivery	
2. Article Number (Transfer from service label) 9590 9402 2392 6249 8242 54 7016 1370 0000 0859 6539		PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt	

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Tony Delfin
Acting Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



Administrative Order WFX-958
August 5, 2016

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order R-12981, Apache Corporation (OGRID No. 873) has made application to the Division for permission to add three additional injection wells to its West Blinebry-Drinkard Unit (WBDU) Waterflood Project in the Eunice; Bli-Tu-Dr, North Pool (Pool code 22900) in Lea County, New Mexico. These wells are being proposed as an injection wells into the Unitized interval, within the Drinkard formation of the WBDU.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Division Rule 19.15.26.8B. NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objections remain outstanding. The proposed wells are eligible for conversion to injection under the terms of that rule. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 19.15.26.8 NMAC have been met and the operator is in compliance with Rule 19.15.5.9 NMAC.

The operator shall run a CBL (or equivalent) across the liners for the wells in this application to the surface to demonstrate good cement across the entire liner.

The proposed expansion of the above-referenced water flood project, will prevent waste, is in the best interests of conservation, will not impair correlative rights, and should be approved.

IT IS THEREFORE ORDERED THAT:

Apache Corporation, as operator, is hereby authorized to inject water into the following wells for the purpose of secondary recovery through plastic-lined tubing set into a packer:

API No.	Well	Unit	Sec	Twp	Rng	Footage N/S	Footage E/W	Approved Injection interval (in ft):type	Maxium Surface Injection Pressures
30-025- 09906	West Blinebry Drinkard Unit No. 38	O	9	21 S	37 E	660' FSL	1980' FEL	6480' to 6729'; perforations	1120 psi

30-025-06441	West Blinebry Drinkard Unit No. 39	M	9	21 S	37 E	660' FSL	660' FWL	6510' to 6762'; perforations	1120 psi
30-025-20178	West Blinebry Drinkard Unit No. 42	I	9	21 S	37 E	1980' FSL	660' FEL	6470' to 6722'; perforations	1120 psi

The approved injection interval for these wells is into the Drinkard formation from an approximate perforated depth of 6480 feet to a maximum perforated depth of 6762 feet. The approved maximum surface tubing injection pressure shall be **1120 psig or 0.2 psig per foot of depth to the uppermost perforation in the injection wells, whichever is less**, as approved in Ordering Paragraph (13) of Division Order No. R-12981 dated August 11, 2008.

The operator shall set the injection packer no more than 100 feet above the shallowest perforation for the permitted injection interval for each well in the application.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected fluid enters only the approved injection interval and is not permitted to escape to other formations or onto the surface.

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The wells shall pass an initial mechanical integrity test ("MIT") prior to initially commencing injection and prior to resuming injection each time any injection packer is unseated. All MIT testing procedures and schedules shall follow the requirements in Rule 19.15.26.11A. NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in these wells.

The wellhead injection pressure on these wells shall be limited as listed above. In addition, the injection wells or header systems shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressures to the maximum allowable pressures for these wells.

Subject to the limitations within the hearing order permitting this project, the Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said wells that such higher pressure will not result in migration of the injected fluids from the approved injection interval. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate Test.

The operator shall notify the supervisor of the Division's District I office of the date and time of the installation of injection equipment and of any MIT test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of injection to the District I office. The operator shall submit monthly reports of the disposal

operations on Division Form C-115, in accordance with Rules 19.15.26.13 and 19.15.7.24 NMAC.

Without limitation on the duties of the operator as provided in Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the District I office of any failure of the tubing, casing or packer in the approved injection wells, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

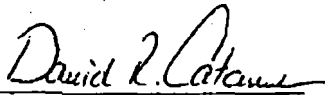
The injection authority granted under this order is not transferable except upon division approval. The division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The division may revoke this injection permit after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein. The subject wells shall be governed by all provisions of Division Order No. R-12981 and associated administrative orders.

The injection authority granted herein shall terminate two (2) years after the effective date of this order if the operator has not commenced injection operations into the subject wells, provided however, the Division, upon written request by the operator received prior to the two-year deadline, may grant an extension thereof for good cause shown.



DAVID R. CATANACH
Director

DRC/mam

cc: New Mexico Oil Conservation Division – Hobbs
Bureau of Land Management – Carlsbad
Well File – 30-025-09906
Well File – 30-025-06441
Well File – 30-025-20178
Case File 14126



C-108 Review Checklist: Area Order

Supplemental Checklist for Multiple Well Application

ORDER TYPE: WFX / PMX Number: _____ SUPPLEMENTAL PAGE _____ of _____

Relevant Hearing Order(s): _____

MULTIPLE WELL APPLICATION: 2 of 3 Well No. _____ Well Name(s): 4239
API: 30-0 25-06441 Spud Date: April 9, 1984 New or Old: 2 (UIC Class II Primacy 03/07/1982)
Footages 660 FSL Lot _____ or Unit W Sec 9 Tsp 21S Rge 37E County Lea
WELL FILE REVIEWED ☐ Current Status: Eng - Bli + Drinker
WELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: X
Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>15 1/4 / 13 3/4</u>	<u>200</u>	<u>250</u>	<u>SURFACE</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4 / 9 5/8</u>	<u>2827</u>	<u>500</u>	<u>1210 / TS</u>
Planned ___ or Existing ___ Interm/Prod	<u>8 3/4 / 17 1/2</u>	<u>6700</u>	<u>750</u>	<u>3100 / TS</u>
Planned ___ or Existing ___ Prod/Liner				
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ OH / PER	<u>5636 / 6756</u>			

Completion/Operation Details: Drilled TD 6770 PBTD 6585 NEW TD N/A NEW PBTD _____
NEW Open Hole ☐ or NEW Perfs ☒ Tubing Size 2 3/8 in. Coated? X Prop. Packer Depth 5584 ft Min. Depth 5536 (100-ft limit)
Proposed Max. Surface Press. 1120 psi Admin. Inj. Press. 1120 (0.2 psi per ft) ANY AREA IPI APPROVAL: _____
Specific Requirement(s) for Well: _____

MULTIPLE WELL APPLICATION: 3 of 3 Well No. 42 Well Name(s): W3DL
API: 30-0 25-20171 Spud Date: April 13, 1983 New or Old: 2 (UIC Class II Primacy 03/07/1982)
Footages 140 FSL Lot _____ or Unit Q Sec 9 Tsp 21S Rge 37E County Lea
WELL FILE REVIEWED ☐ Current Status: ing - Bli + Dr
WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: X
Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>12 1/4 / 9 5/8</u>	<u>1292</u>	<u>450</u>	<u>SURFACE</u>
Planned ___ or Existing ___ Interm/Prod	<u>6 7/8 / 5 1/2</u>	<u>6780</u>	<u>700</u>	<u>2300 / TS</u>
Planned ___ or Existing ___ Interm/Prod				
Planned ___ or Existing ___ Prod/Liner				
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ OH / PER	<u>5781 / 6710</u>			

Completion/Operation Details: Drilled TD 6780 PBTD 6770 NEW TD _____ NEW PBTD _____
NEW Open Hole ☐ or NEW Perfs ☒ Tubing Size 2 3/8 in. Coated? X Prop. Packer Depth 5731 ft Min. Depth 5641 (100-ft limit)
Proposed Max. Surface Press. 1120 psi Admin. Inj. Press. 1120 (0.2 psi per ft) ANY AREA IPI APPROVAL: _____
Specific Requirement(s) for Well: _____

C-108 Review Checklist: Received 2/21Add. Request: 3/08/2007

Reply Date: _____

Suspended: _____

[Ver 15]

ORDER TYPE: WFX / PMX / SWD Number: 458-A

Order Date: _____

Legacy Permits/Orders: R-12581Well No. 38 Well Name(s): LB04API: 30-0 25-09906 Spud Date: 11-4-1948 New or Old: 0 (UIC Class II Primacy 03/07/1982)Footages 660 FSL 1980 FEL Lot _____ or Unit 0 Sec 9 Tsp 21S Rge 37E County LECGeneral Location: 2.3 miles NW E4 NW 1/4 BLI-T Pool: BLI, NORTH Pool No.: 22900BLM 100K Map: JAL Operator: Apache Corporation OGRID: 873 Contact: Brian Woodjagant

COMPLIANCE RULE 5.9: Total Wells: _____ Inactive: _____ Final Assur: _____ Compl. Order? _____ IS 5.9 OK? _____ Date: _____

WELL FILE REVIEWED ☐ Current Status: Eng -> BLI FDMWELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: Y

Planned Rehab Work to Well: _____

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>17" / 13 3/8"</u>	<u>212</u>	Stage Tool	<u>200</u>	<u>Surface / UTS44</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4" / 9 5/8"</u>	<u>6770</u>		<u>500</u>	<u>1950 / TS</u>
Planned ___ or Existing ___ Interm/Prod	<u>8 3/4" / 7"</u>	<u>6770</u>		<u>900</u>	<u>2700 / TS</u>
Planned ___ or Existing ___ Prod/Liner					
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH / <u>PERF</u>	<u>5620</u>		Inj Length <u>6736</u>		
Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.			<u>BL</u>	<u>5597</u>	Drilled TD <u>6770</u> PBTD <u>6737</u>
Confining Unit: Litho. Struc. Por.			<u>ALU</u>	<u>6737</u>	NEW TD _____ NEW PBTD _____
Proposed Inj Interval TOP:					NEW Open Hole ☐ or NEW Perfs ☒
Proposed Inj Interval BOTTOM:					Tubing Size <u>2 3/8</u> in. Inter Coated? <u>Y</u>
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth <u>5520</u>
Adjacent Unit: Litho. Struc. Por.					Min. Packer Depth <u>5570</u> (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 <u>MA</u> Noticed? _____ BLM Sec Ord ☐ WIPP ☐ Noticed? _____ Salt/Salado T: _____ B: _____ NW: Cliff House fm _____					
FRESH WATER: Aquifer <u>Quaternary</u> Max Depth <u>167</u> HYDRO AFFIRM STATEMENT By Qualified Person ☒					
NMOSE Basin: <u>Capitan</u> CAPITAN REEF: thru adj ☒ NA No. Wells within 1-Mile Radius? <u>3</u> FW Analysis <u>Y</u>					
Disposal Fluid: Formation Source(s) <u>Produced</u> Analysis? <u>Y</u> On Lease ☒ Operator Only ☐ or Commercial ☐					
Disposal Int: Inject Rate (Avg/Max BWPD): <u>252/314</u> Protectable Waters? _____ Source: _____ System: <u>Closed</u> or Open					
HC Potential: Producing Interval? <u>Y</u> Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mile Radius Pool Map ☐					
AOR Wells: 1/2-M Radius Map? <u>Y</u> Well List? _____ Total No. Wells Penetrating Interval: <u>84</u> Horizontals? <u>N/A</u>					
Penetrating Wells: No. Active Wells _____ Num Repairs? _____ on which well(s)? _____ Diagrams? _____					
Penetrating Wells: No. P&A Wells <u>2</u> Num Repairs? _____ on which well(s)? _____ Diagrams? _____					
NOTICE: Newspaper Date <u>JANUARY 23, 2007</u> Mineral Owner _____ Surface Owner <u>Milford</u> N. Date _____					
RULE 26.7(A): Identified Tracts? _____ Affected Persons: <u>Chevron, Conoco Phillips</u> N. Date _____					

Order Conditions: Issues: _____

Add Order Cond: _____