

7/6/2016 DATE IN	SUSPENSE	ENGINEER	7/08/2016 LOGGED IN	WFX TYPE	Permit 1619060280 APP NO.
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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 Blinbry Drinkard Unit
☐ NSL ☐ NSP ☐ SD 38, 39, & 42
 Check One Only for [B] or [C] Eunice; BLI-TU-DR, North (22900)
 [B] Commingling - Storage - Measurement 025-09906
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 Drinkard only [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 X WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
 [D] Other: Specify _____

- [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
 [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] X Offset Operators, Leaseholders or Surface Owner
 [C] X Application is One Which Requires Published Legal Notice
 [D] X Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] X For all of the above, Proof of Notification or Publication is Attached, and/or
 [F] ☐ Waivers are Attached

- [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

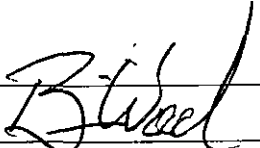
e-mail Address

7-6-16

Date

2016 JUL -16 P 2
 RECEIVED OCL

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: XXX Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage _____
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: APACHE CORPORATION
ADDRESS: 303 VETERANS AIRPARK LANE, SUITE 3000, MIDLAND, TX 79705
CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes XXX No _____
If yes, give the Division order number authorizing the project: R-12981 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: JULY 5, 2016
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.

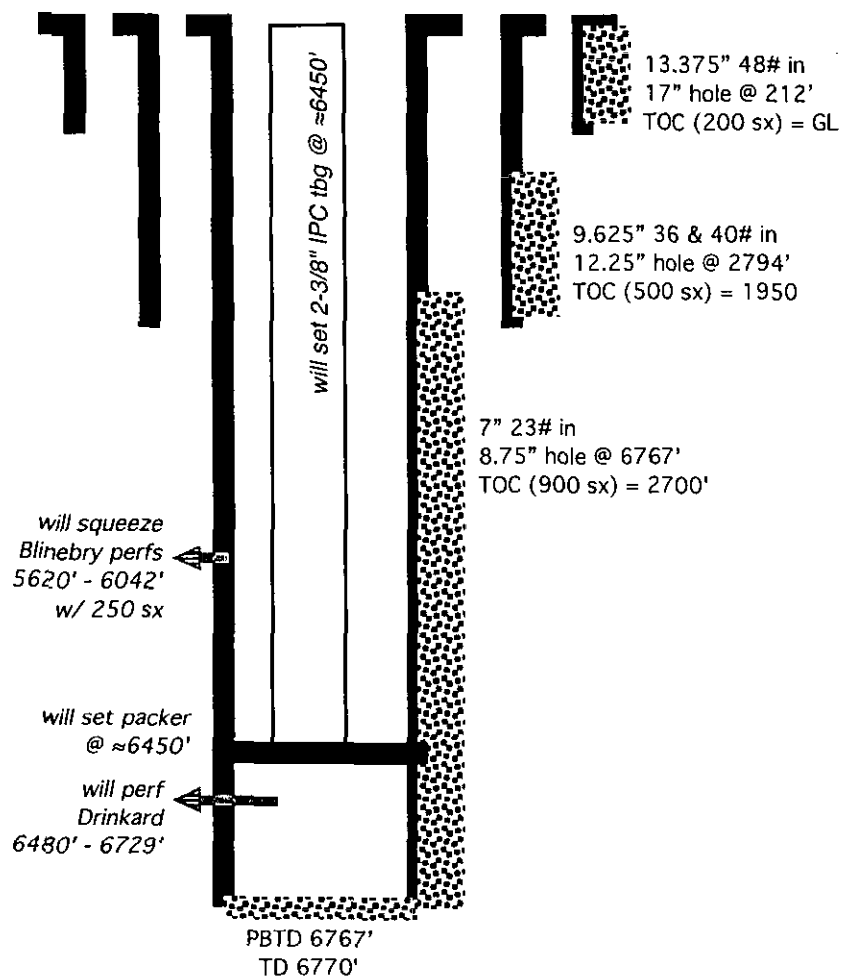
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 38

WELL LOCATION:	660' FSL & 1980' FEL	0	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

6480' feet to 6729'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COATType of Packer: LOCK SET INJECTIONPacker Setting Depth: ≈6450'

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') WILL BE SQUEEZED W/ 250 SX

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'), BLINEBRY (5672'), TUBB (6150')UNDER: ABO (6734'), FUSSELMAN (7300')

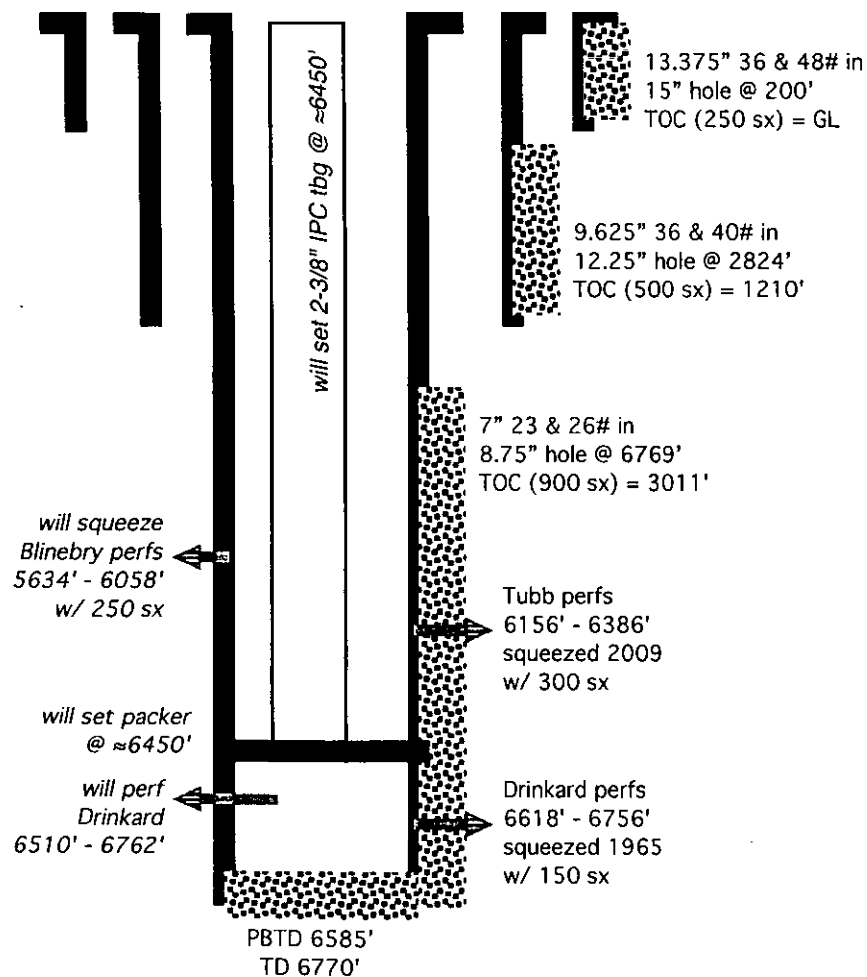
INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATIONWELL 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 DATASurface 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: 8-3/4" Casing Size: 7"
 Cemented with: 750 sx. *or* _____ ft³
 Top of Cement: 3011' Method Determined: TEMP. SURV.
 Total Depth: 6770'

Injection Interval

6510' feet to 6762'

(Perforated or Open Hole; indicate which)

■■■■■■■■■■

INJECTION WELL DATA SHEETTubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COATType of Packer: LOCK SET INJECTIONPacker Setting Depth: ≈6450'

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') WILL BE SQUEEZED W/ 250 SX
TUBB (6156' - 6386') WAS SQUEEZED IN 2009 W/ 300 SX

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'), BLINEBRY (5663'), TUBB (6200')UNDER: ABO (6767'), FUSSELMAN (≈7300')

INJECTION WELL DATA SHEET

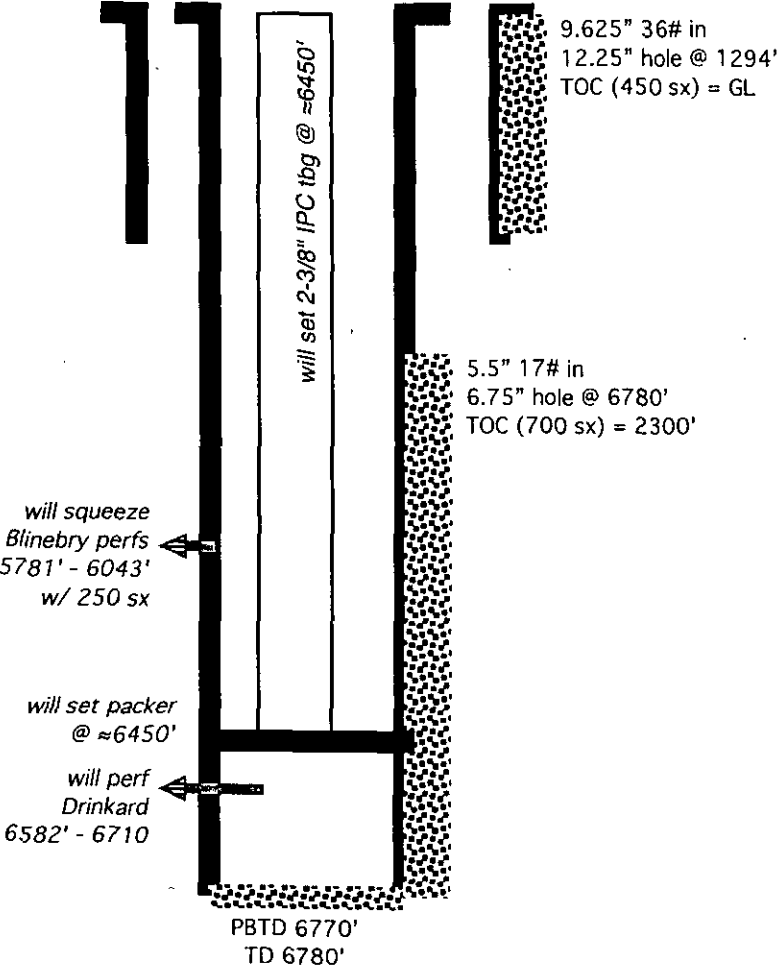
OPERATOR: APACHE CORPORATION

WELL 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 DATA

Surface Casing

Hole Size: 12.25" Casing Size: 9.625"
Cemented with: 450 sx. or ft³
Top of Cement: GL Method Determined: CIRCULATED

Intermediate Casing

Hole Size: Casing Size:
Cemented with: sx. or ft³
Top of Cement: Method Determined:

Production Casing

Hole Size: 6.75" Casing Size: 5.5"
Cemented with: 700 sx. or ft³
Top of Cement: 2300' Method Determined: TEMP. SURV.
Total Depth: 6780'

Injection Interval

6470' feet to 6722'

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

INJECTION WELL DATA SHEETTubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COATType of Packer: LOCK SET INJECTIONPacker Setting Depth: ≈6450'

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') WILL BE SQUEEZED W/ 250 SX

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'), BLINEBRY (5657'), TUBB (6146')UNDER: ABO (6727'), FUSSELMAN (≈7300')

APACHE CORPORATION
 WEST BLINEBRY DRINKARD UNIT 38, 39, & 42
 SEC. 9, T. 21 S., R. 37 E.
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I. Goals are to change the Drinkard injection interval of 3 existing water injection wells and increase the maximum bwpd injected per well from 490 to 3000. All are part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900). Wells and zone (Drinkard) are part of the West Blinebry Drinkard Unit (Cases 14125 and 14126, both Order Number R-12981), formed in 2008 by Apache. There have been 11 subsequent WFX approvals. Injection in these three wells was authorized in the original order. Blinebry perms authorized in original order will be squeezed.

Well	API	9-21s-37e	current Drinkard perms	proposed Drinkard perms	Drinkard interval change	PBTD TD now	PBTD TD plan
WBDU 38	30-025-09906 <i>Spud 11-4-1944</i>	660 FSL & 1980 FEL	6523 - 6736	6480 - 6729	raise top perf 43' & raise bottom perf 7'	6767 6770	No change
WBDU 39	30-025-06441 <i>April 22-1944</i>	660 FSL & 660 FWL	6506 - 6583	6510 - 6762	lower top perf 4' & lower bottom perf 179'	6585 6770	6762 6770
WBDU 42	30-025-20178 <i>4-13-63</i>	1980 FSL & 660 FEL	6582 - 6710	6470 - 6722	raise top perf 112' & lower bottom perf 12'	6770 6780	No change

OK

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

APACHE CORPORATION
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- III. A. (1) Unit Size: 2480 acres Unit Numbers: 300341 & NMNM-120042X
Unit Area (Exhibit A): T. 21 S., R. 37 E.
Section 4: Lot 15, S2SW4, & SE4
Section 8: E2, NENW, & E2SW
Sections 9 & 16: all
Section 17: E2 & E2SW4
Section 21: E2NE4

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 B) 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#. Setting depths will be ~6450'. (Highest proposed injection perforations will range from 6470' to 6510'.)

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 WEST BLINEBRY DRINKARD UNIT 38, 39, & 42
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- A. (4) A 2-3/8" nickel-plated Arrow-set packer will be set at $\approx 6450'$ (or $\leq 100'$ above the highest perforation).
- B. (1) Injection zones will be the Drinkard carbonates. That zone is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool. Estimated fracture gradient is ≈ 0.56 psi per foot.
- B. (2) Wells are, and will be, cased holes. Perforated zone will be Drinkard and intervals will be: #38 = 6480' - 6729', #39 = 6510' - 6762', and #42 = 6470' - 6722'.
- 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 2008 under R-12981.
- B. (4) See table below for perforation and isolation histories.

well	current perfs	status	zone	proposed perfs (all Drinkard)
38	5620' - 6042'	active	Blinebry	6480' - 6729'
	6423' - 6736'	active	Drinkard	
39	5634' - 6058'	active	Blinebry	6510' - 6762'
	6156' - 6386'	squeezed	Tubb	
	6506' - 6583'	active	Drinkard	
	6618' - 6756'	squeezed	Drinkard	
42	5781' - 6043'	active	Blinebry	6470' - 6722'
	6582' - 6710'	active	Drinkard	

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- B. (5) Next higher oil or gas zone in the area of review is the Tubb. Above the Tubb is the Blinebry. Both are part of the same pool (Eunice; Blinebry-Tubb-Drinkard, North Pool) as the Drinkard. Next pool above that pool is the Hare; San Andres, East (96601). San Andres top is at $\approx 4007'$. 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 10 water flood expansion approvals since then.

V. Exhibit C shows all 114 existing wells (95 oil or gas wells + 17 water injection wells + 1 P&A well + 1 water supply well) + 5 proposed wells in the areas of review, regardless of depth. Exhibit D shows all 917 existing wells (684 oil or gas wells + 117 injection or disposal wells + 86 P & A wells + 29 water wells + 1 brine well) within 2-mile radii.

Exhibit E shows all leases (only BLM, State, and fee) within a half-mile radius. Exhibit F 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
SENE4 & S2 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
SE4 Sec. 8	BLM	NMNM-090161	Apache & Chevron
SWNW Sec. 9	BLM	NMLC-031741A	Apache & Chevron
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	Weatherly	Apache

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 fourteen existing wells (Exhibit G) are in the areas of review. Seventy of those wells penetrated the Drinkard (top $\geq 6470'$). Tables abstracting the well construction details and histories of the penetrators are in Exhibit H. None of the 3 P&A wells in the areas of review penetrated the Drinkard. Deepest P&A well was 5990'.

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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 39,054,030 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

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

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5. Apache currently has 130 active or new oil wells and 35 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 Drinkard is ≈275 million years old, ≈256' 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 155 Drinkard 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	5672'	≈5663'	5657'
Tubb	6150'	≈6200'	6146'
Drinkard	6480'	6510'	6470'
highest proposed perf	6480'	6510'	6470'
lowest proposed perf	6729'	6762'	6722'
Abo	6734'	6767'	6727'
proposed PBTD	6767'	6762'	6770'
proposed TD	6770'	6770'	6780'

State Engineer records (Exhibit I) list three water wells within a mile (1610 meters) radius. Deepest of the water wells is 120'. 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 $\approx$ 200 yards outside the closest mile radius. Their analyses are in Exhibit J. Ogallala aquifer is $\approx$ 6 miles northeast.

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

There will be >5000' 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 (194 wells) or disposed (9 wells) into the Blinebry-Tubb-Drinkard, San Andres, Grayburg, Queen, Seven Rivers, and Yates within T. 21 S., R. 37 E.

IX. The 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. Analyses from those wells are attached as Exhibit J.

XII. Apache (Exhibit K) 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 155 Drinkard injection wells in New Mexico. Previously

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

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approved water flood expansions (WFX-) in the unit include 854, 857, 913, 921, 922, 923, 924, 948, 952, 954, and 955.

XIII. A legal ad (see Exhibit L) was published June 9, 2016. Notice (this application) has been sent (Exhibit M) to the surface owner (Millard Deck Estate 4193), lessor (BLM), 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 Aeches, & St. Croix Corp.), and non-Drinkard operators (Breck, Chevron, & XTO) in the areas of review. Apache operates all Drinkard wells in the areas of review.

WELL LOCATION AND ACREAGE DEDICATION PLAT

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

HOBBS OFFICE O. C. C.

APR 29 3 01 PM '64

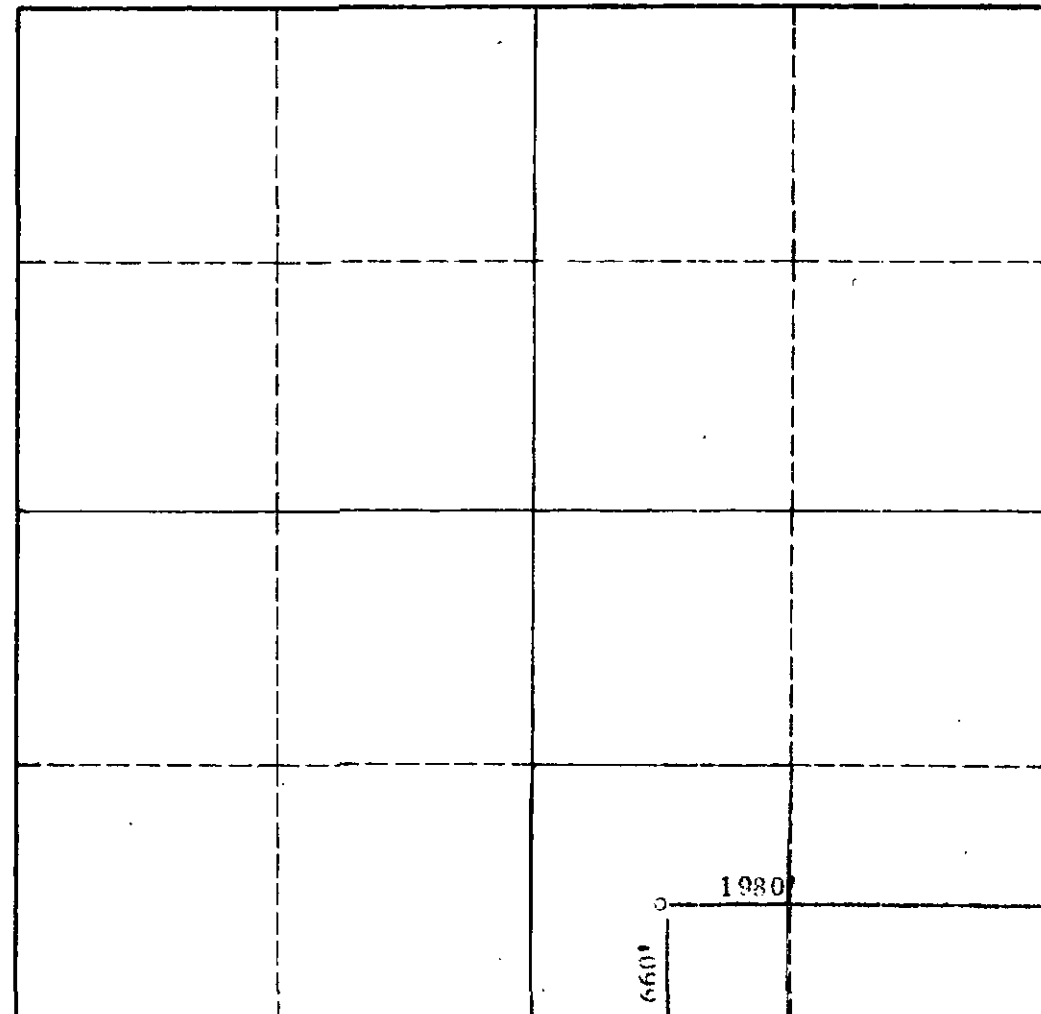
SECTION A

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 Blinbry		Pool Blinbry	Dedicated Acreage: 40 Acres

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X 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) ABS

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 A

Certificate No.

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-55

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

Operator Continental Oil Company			Lease Hawk B-1		now WBDU 39		Well No. 9
Unit Letter 11	Section 9	Township 20	Range 37	County Lea			
Actual Footage Location of Well: 660 feet from the South line and 660 feet from the West line							
Ground Level Elev. 3519	Producing Formation Blinebry		Pool Blinebry Gas			Dedicated Acreage: 40 Acres	

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?

☐ Yes ☐ No If answer is "yes," type of consolidation Not Applicable

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

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

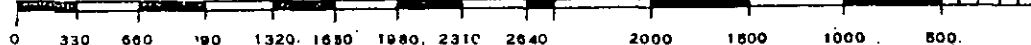
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer
and/or Land Surveyor

EXHIBIT A

Certificate No.



USGS (5) FILE

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 HAWK B-1		Now WBDU 42		Well No. 19
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 Blinberry & Drinkard		Pool Blinberry & 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. (63-3-29 (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

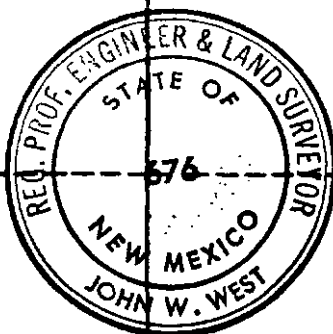
CERTIFICATION

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. E. 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 A
Registered Professional Engineer and/or Land Surveyor, JOHN W. WEST	
John W. West	
Certificate No. N. M. - P. E. & L. S. NO. 676	



0 350 650 950 1250 1550 1850 2150 2450 2750 3050 3350 3650 3950 4250 4550 4850 5150 5450 5750 6050 6350 6650 6950 7250 7550 7850 8150 8450 8750 9050 9350 9650 9950 10250 10550 10850 11150 11450 11750 12050 12350 12650 12950 13250 13550 13850 14150 14450 14750 15050 15350 15650 15950 16250 16550 16850 17150 17450 17750 18050 18350 18650 18950 19250 19550 19850 20150 20450 20750 21050 21350 21650 21950 22250 22550 22850 23150 23450 23750 24050 24350 24650 24950 25250 25550 25850 26150 26450 26750 27050 27350 27650 27950 28250 28550 28850 29150 29450 29750 30050 30350 30650 30950 31250 31550 31850 32150 32450 32750 33050 33350 33650 33950 34250 34550 34850 35150 35450 35750 36050 36350 36650 36950 37250 37550 37850 38150 38450 38750 39050 39350 39650 39950 40250 40550 40850 41150 41450 41750 42050 42350 42650 42950 43250 43550 43850 44150 44450 44750 45050 45350 45650 45950 46250 46550 46850 47150 47450 47750 48050 48350 48650 48950 49250 49550 49850 50150 50450 50750 51050 51350 51650 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487850 488150 488450 48

MAR 11 2016

RECEIVED

Apache

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

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

9-5/8" CSG.
EST. CMT TOP @
1950' (TS)

7" CSG.
EST. CMT TOP @
2700' (TS)

Blinbry Perfs:
Active
5620' - 6042'

Drinkard Perfs:
Active
6423' - 6736'

Injection Packer
Set @ 5551'

PBTD: 6,767.0
TD: 6,770.0

WELL NAME: WBDU #38W (Hawk B-1 #8)		API: 30-025-09906		
LOCATION: 880' 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 Shapolt		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
Blinbry	5800' - 19', 33', 41', 60', 66', 84', 99', 117', 33', 41', 55', 67', 6011', 20', 32', 42'	16	1
	5620' - 28', 46' - 52', 56' - 78', 80' - 84', 88' - 5714', 5734' - 40', 44' - 54'	75	2
	6716' - 38'	21	4
Drinkard	6664' - 72', 80' - 92', 6698' - 6705'	30	4
	6523', 30', 37', 45', 52'	5	1

EXHIBIT B

Current Wellbore Diagram

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

Apache

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	KB to Ground (ft): 10.0
PBTD (ft): 6,585.0	Ground Elev. (ft): 3507.0	
CASING/TUBING	SIZE (IN.)	WEIGHT (LB/FT)
Surface Casing	13-3/8" (Cmt. w/ 250sx, Circ.)	36 / 48
Int. Casing	9-5/8" (Cmt. w/ 500sx) TOC @ 1210' (TS)	36 / 40
Prod. Casing	7" (Cmt. w/ 750 sx) TOC @ 3011' (TS)	23 / 26
	GRADE	DEPTHS (FT)
		0.00 200.00
		0.00 2,824.00
		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

13-3/8" CSQ.
CMT. TO SURF.

9-5/8" CSQ.
EST. CMT TOP @
1210' (TS)

7" CSQ.
EST. CMT TOP @
3011' (TS)

Injection Packer
Set @ 5589'

Blinebry Perfor.
Active
5634'-6058'
86', 314 Shots

Tubb Perfor.
Sqz w/ 300sx (2/2009)
6156'-6386'
81', 324 Shots

Drinkard Perfor.
Active
6506'-6583'
7', 7 Shots

Drinkard Perfor.
Sqz w/ 150sx (11/1965)
6618'-6756'
88', 352 Shots

Fill @ 6585'

PBTD: 6,585.0

TD: 6,770.0

EXHIBIT B

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

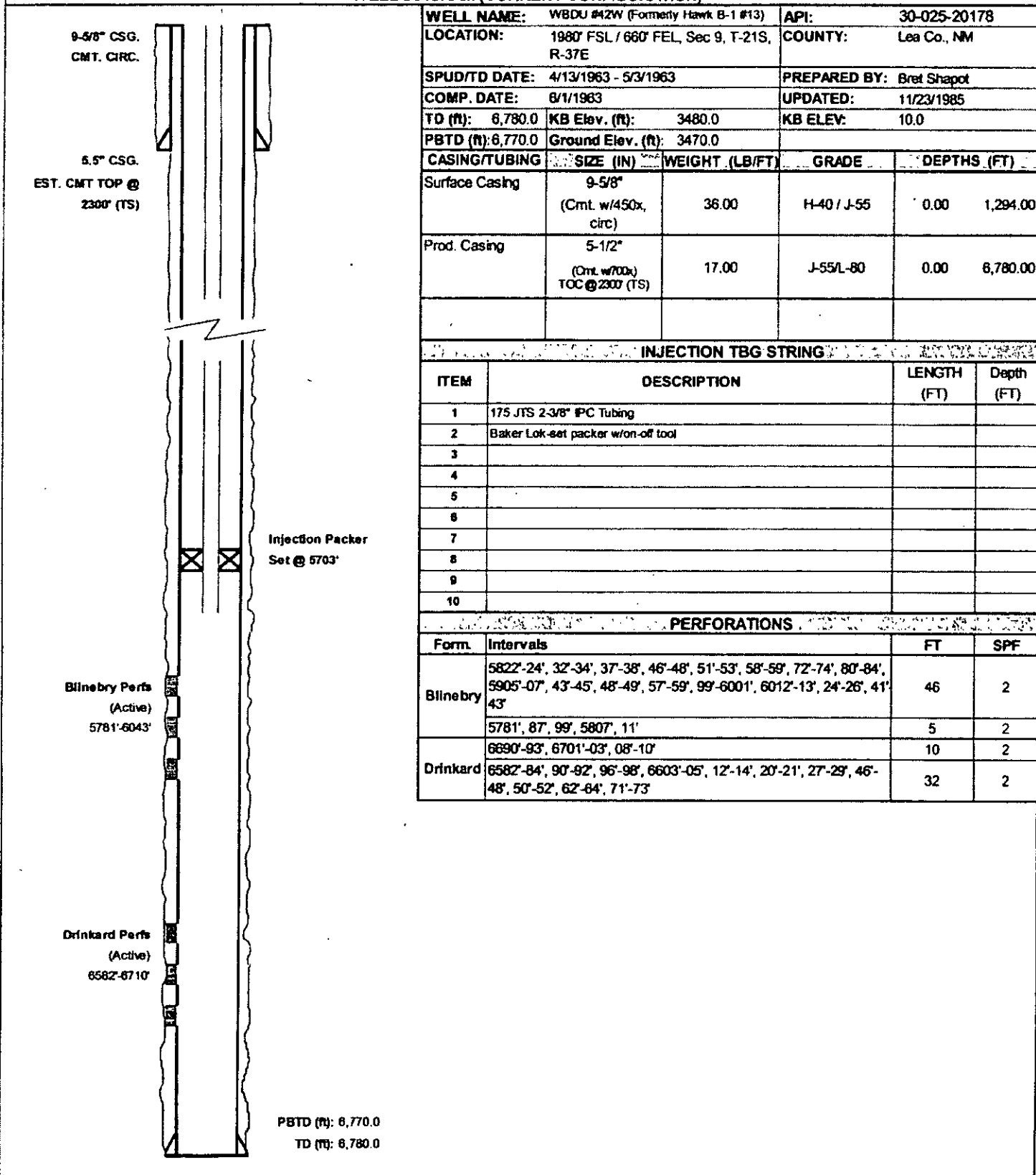
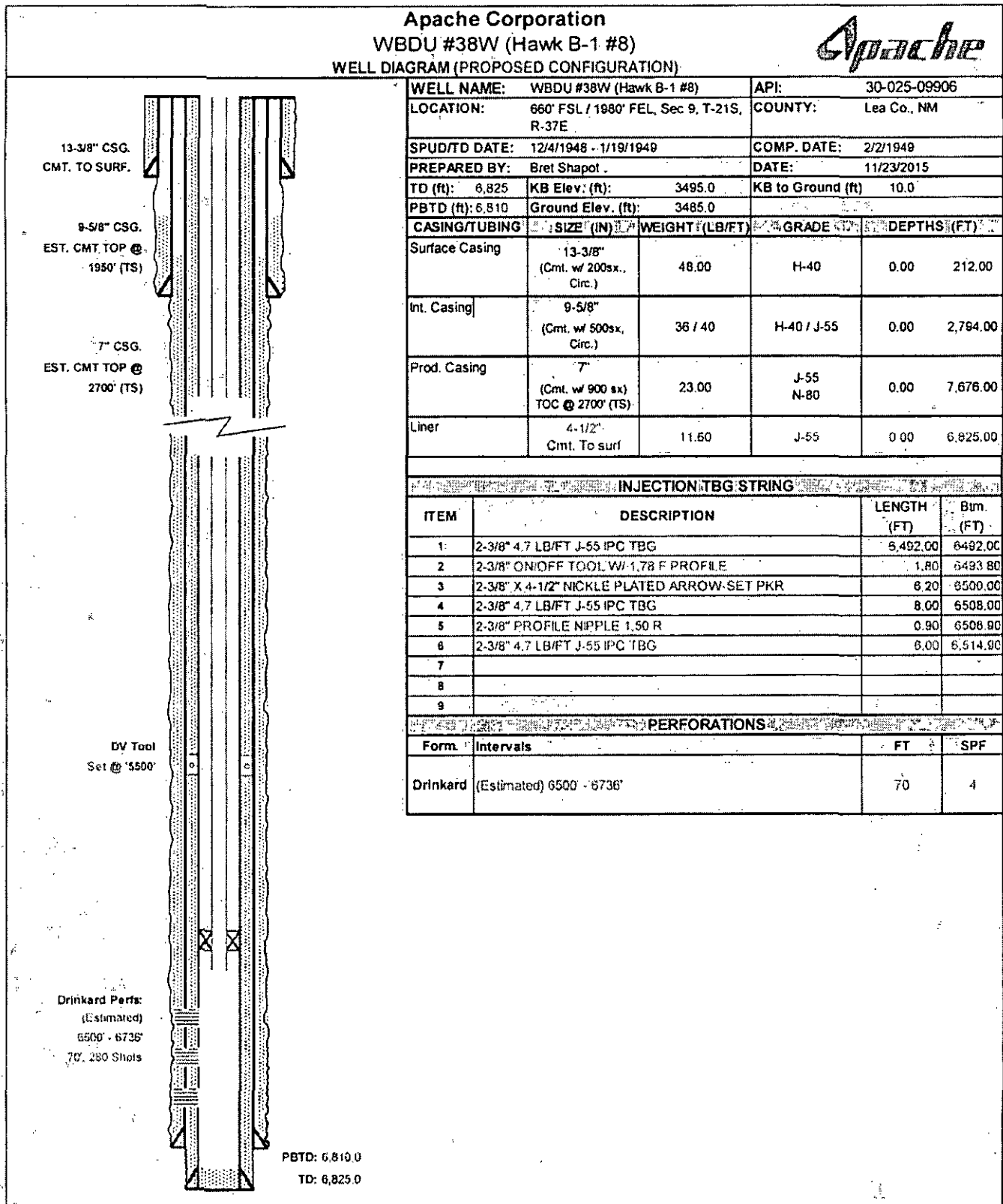



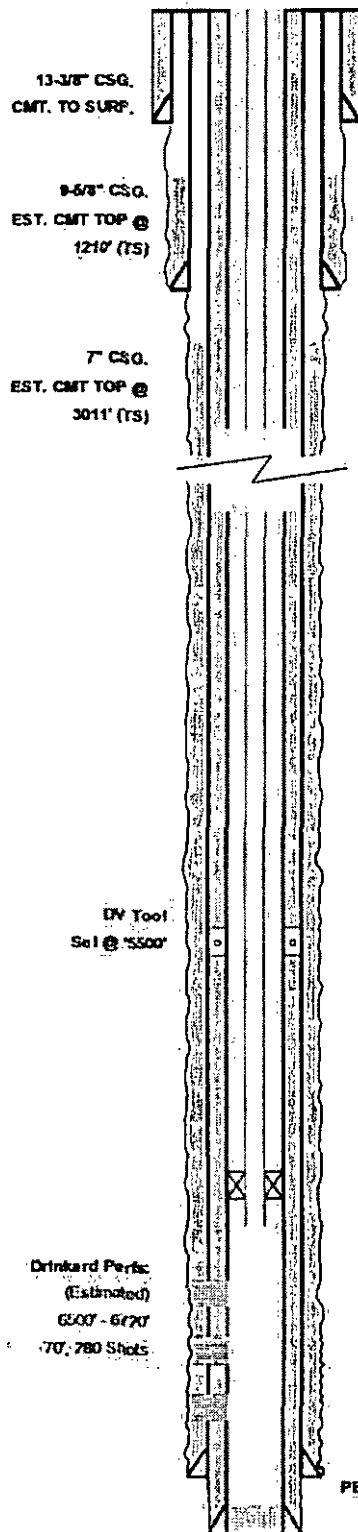
EXHIBIT B

Proposed Wellbore Diagram



Proposed Wellbore Diagram

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



WELL NAME: WBDU #39W (Hawk B-1 #9)		API: 30-025-08441			
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 Shopot		DATE: 11/24/2015			
TD (ft): 6,810.0	KB Elev. (ft): 3517.0	KB to Ground (ft) 10.0			
PBTD (ft): 6,795.0	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
Liner	4-1/2" Cmt. To surf	11.60	J-55	0.00	6,810.00
INJECTION TBG STRING					
ITEM	DESCRIPTION			LENGTH (FT)	Btm (FT)
1	2-3/8" 4.7 LB/FT J-55 IPC TBG			6,492.00	6492.00
2	2-3/8" ON/OFF TOOL W/ 1.78 F PROFILE			1.80	6493.80
3	2-3/8" X 4-1/2" NICKLE PLATED ARROW-SET FOR			8.20	6500.00
4	2-3/8" 4.7 LB/FT J-55 IPC TBG			8.00	6508.00
5	2-3/8" PROFILE NIPPLE 1.50 R			0.90	6508.90
6	2-3/8" 4.7 LB/FT J-55 IPC TBG			6.00	6,514.90
7					
8					
9					
PERFORATIONS					
Form.	Intervals			FT	SPF
Drinkard	(Estimated) 6500' - 6720'			70	4

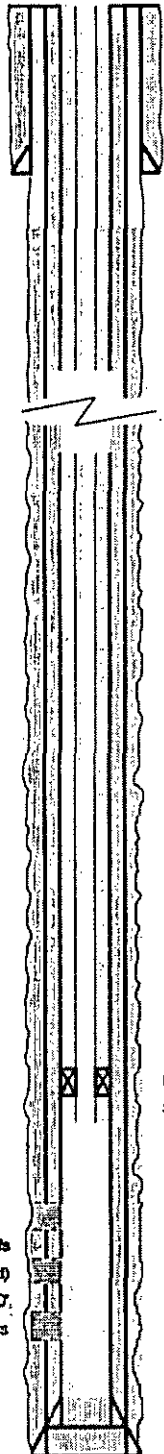
Proposed Wellbore Diagram

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

Apache

9-5/8" CSQ.
CMT. CIRC.

5.5" CSQ.
EST. CMT TOP @
2300' (TS)

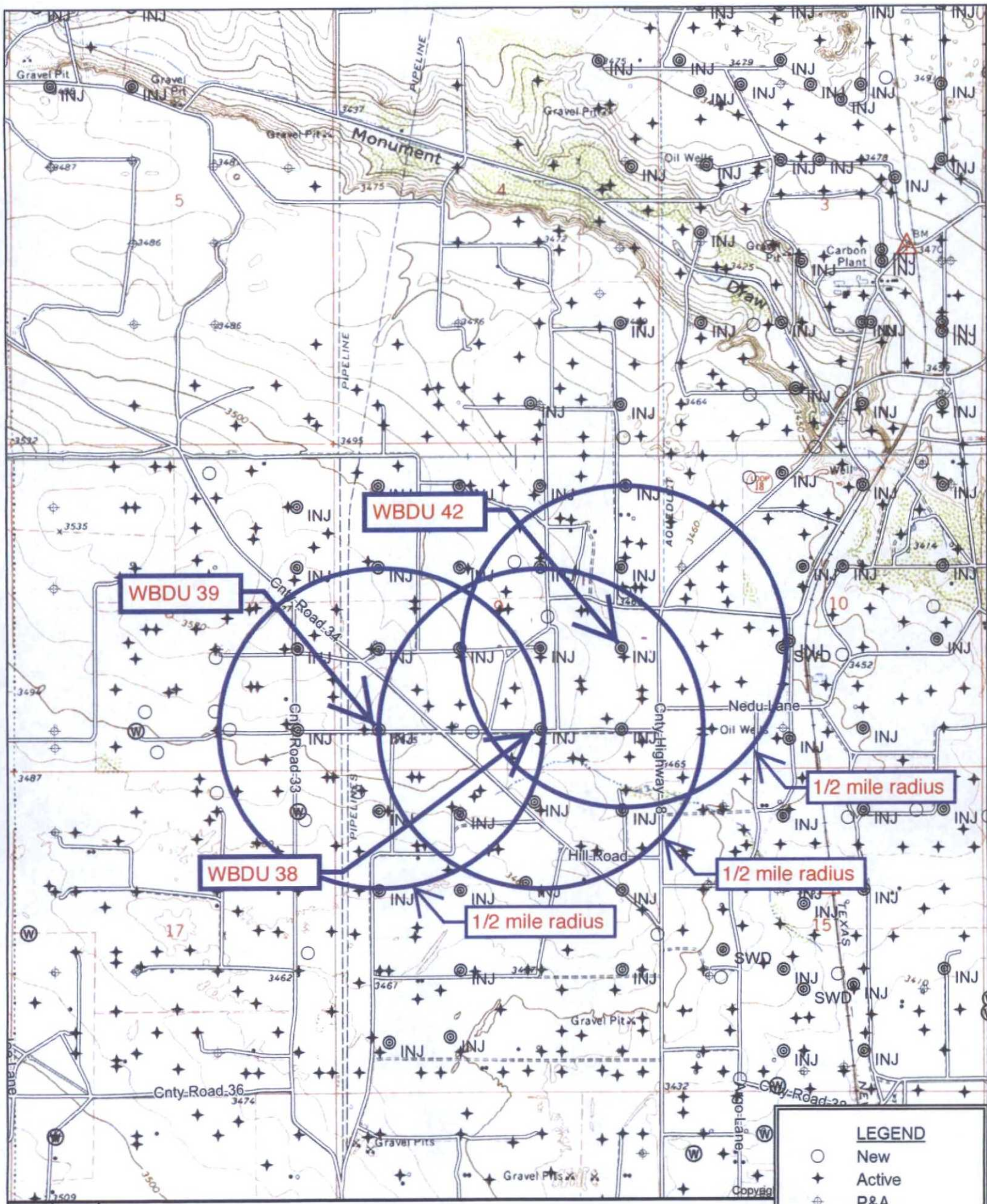


Injection Packer
Set @ 6450'

Drinkard Perfs
(Proposed)
6500' - 6700'
70', 200 Shots

PBTD (ft): 6,765.0
TD (ft): 6,700.0

WELL NAME: WBDU #42W (Formerly Hawk B-1 #13)		API:		30-025-20178	
LOCATION: 1880' 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): 6,765.0		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 1,294
Prod. Casing		5-1/2" (Cmt. w/700x) TOC @ 2300' (TS)	17.00	J-55/L-80	0 6,780
Int. Casing		4" Cmt. To surf	9.50	J-55	0 6,770
INJECTION TBG STRING					
ITEM	DESCRIPTION			LENGTH (FT)	Depth (FT)
1	2-3/8" 4.7 LB/FT J-55 IPC TBG			6460.0	6460.0
2	2-3/8" ON/OFF TOOL W/ 1.78 F PROFILE			1.8	6461.8
3	2-3/8" X 4-1/2" NICKLE PLATED ARROW-SET PKR			6.2	6468.0
4	2-3/8" 4.7 LB/FT J-55 IPC TBG			8.0	6476.0
5	2-3/8" PROFILE NIPPLE 1.50 R			0.9	6476.9
6	2-3/8" 4.7 LB/FT J-55 IPC TBG			6.0	6482.9
7					
8					
9					
10					
PERFORATIONS					
Form.	Intervals			FT	SPF
Drinkard	(Proposed) 6500' - 6700'			70	4

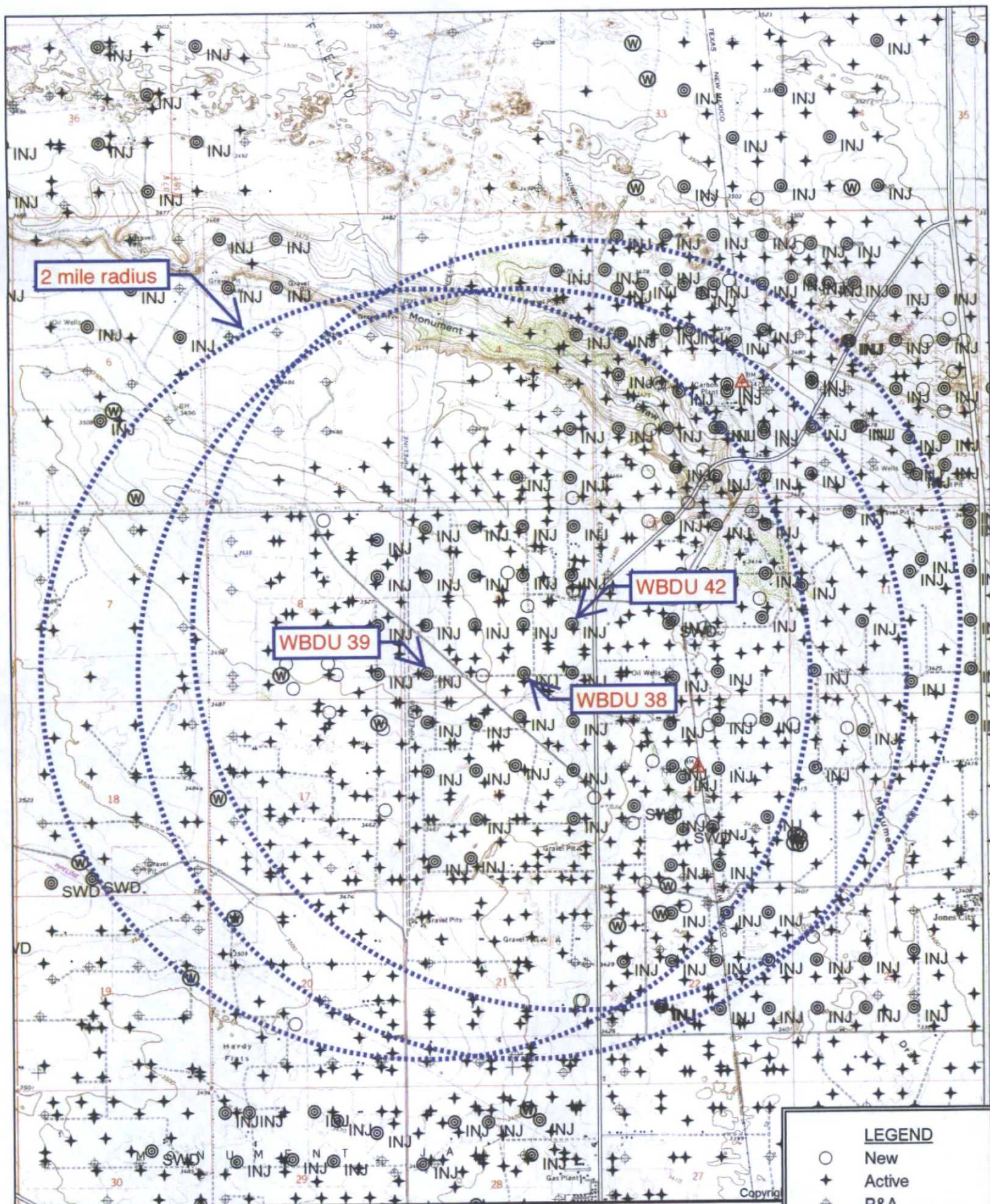


Quad: EUNICE
Scale: 1 inch = 2,000 ft.

EXHIBIT C

LEGEND

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



2 mile radius

WBDU 39

WBDU 42

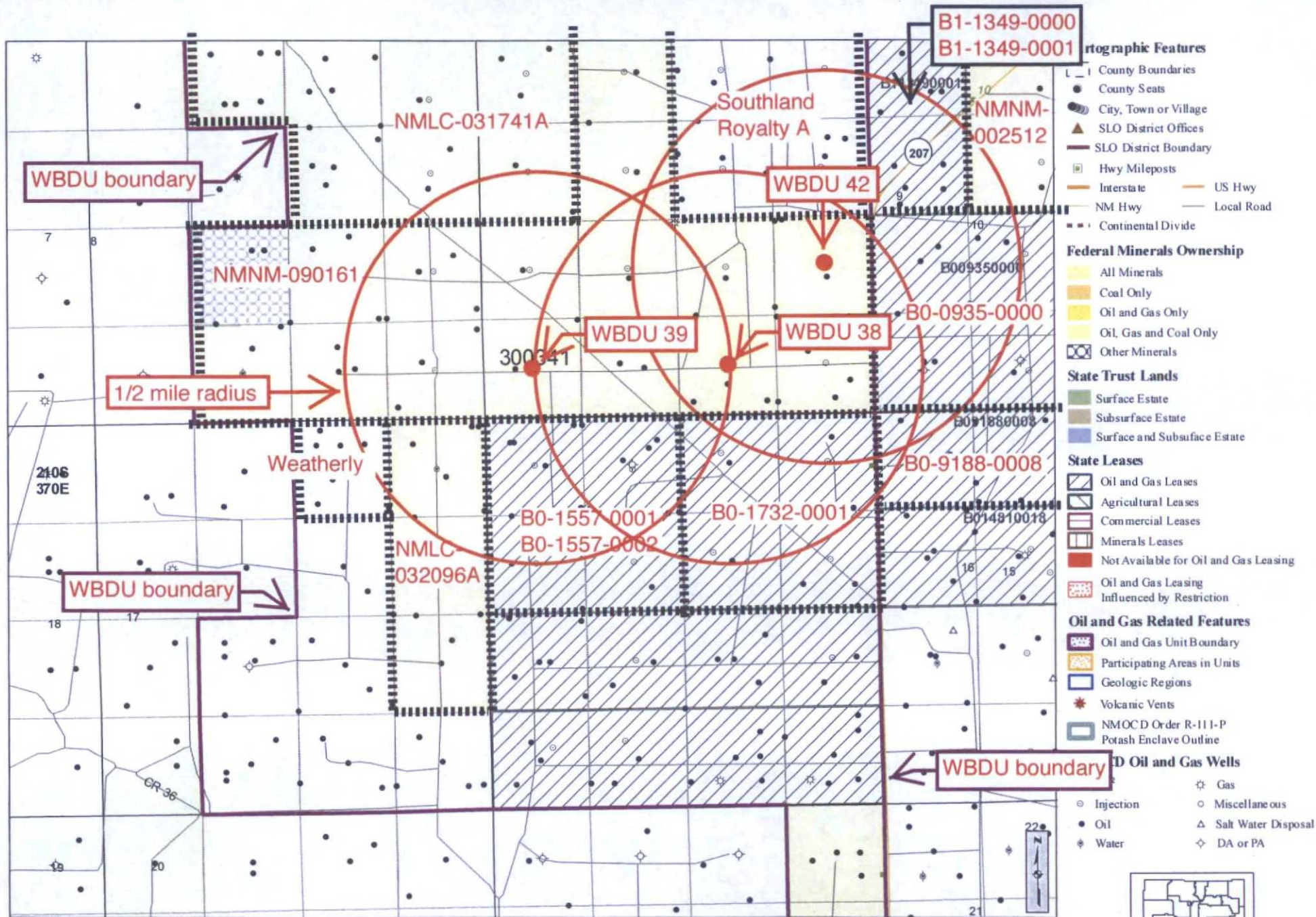
WBDU 38

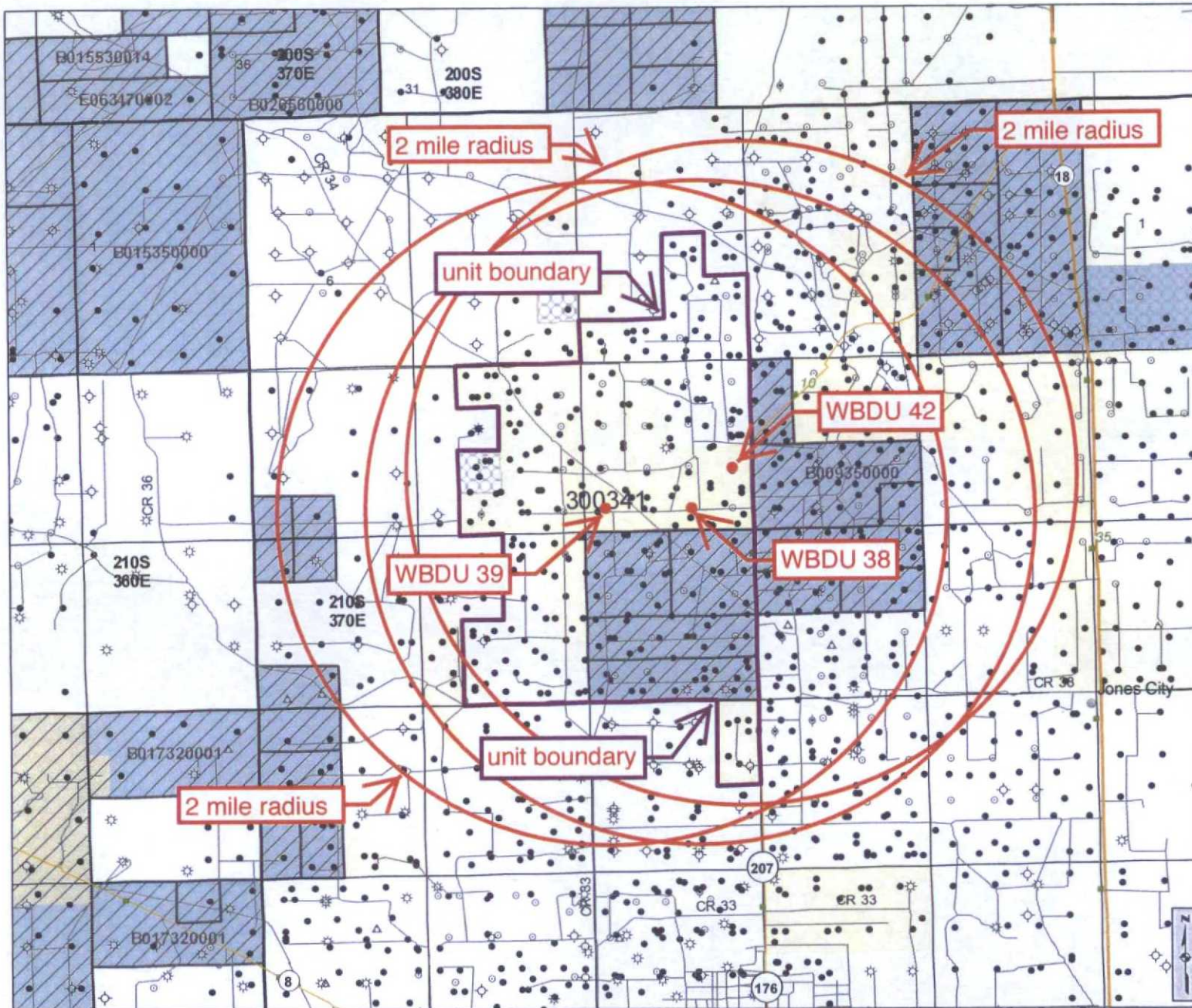
LEGEND

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

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

EXHIBIT D





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
- NMOCD Order R-111-P Potash Enclave Outline

NMOCD Oil and Gas Wells

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

New Mexico State Land Office Oil, Gas and Minerals

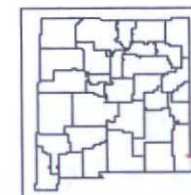
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Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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

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

EXHIBIT F



www.nmstatelands.org

ALL WELLS IN WBDU 38 AREA OF REVIEW

API	WHO	WELL	TYPE	UNIT- SECTION- T21S-R37E	TVD	ZONE	FEET FROM WBDU 38
3002535880	Apache	Hawk Fed B 1 028	O	O-9	4200	Penrose Skelly; Grayburg	240
3002538197	Apache	WBDU 051	O	O-9	6837	Eunice; Bli-Tu-Dr, N	676
3002538198	Apache	WBDU 052	O	O-9	6870	Eunice; Bli-Tu-Dr, N	703
3002536531	Apache	Hawk Fed B 1 038	O	O-9	4350	Penrose Skelly; Grayburg	712
3002537743	Apache	WBDU 049	O	J-9	6950	Eunice; Bli-Tu-Dr, N	793
3002536662	Apache	Hawk Fed B 1 035	O	P-9	4350	Penrose Skelly; Grayburg	840
3002536530	Apache	Hawk Fed B 1 036	O	P-9	4743	Penrose Skelly; Grayburg	934
3002537744	Apache	WBDU 050	O	J-9	6875	Eunice; Bli-Tu-Dr, N	1014
3002535806	Apache	Hawk Fed B 1 027	O	P-9	4200	Penrose Skelly; Grayburg	1098
3002542569	Apache	WBDU 188	I	N-9	Plan 7200	Eunice; Bli-Tu-Dr, N	1107
3002535798	Apache	Hawk Fed B 1 025	O	J-9	4200	Penrose Skelly; Grayburg	1170
3002541547	Apache	WBDU 178	I	B-16	6948	Penrose Skelly; Grayburg	1185
3002506438	Apache	WBDU 033	I	J-9	6695	Eunice; Bli-Tu-Dr, N	1320
3002506622	Chevron	Harry Leonard NCT E 003	O	B-16	6710	Penrose Skelly; Grayburg	1320
3002506439	Apache	WBDU 037	I	P-9	6750	Eunice; Bli-Tu-Dr, N	1327
3002509907	Apache	Hawk Fed B 1 006	O	N-9	7530	Eunice Monument; Grayburg-SA	1359
3002536095	Apache	State C Tract 12 013	O	C-16	4150	Penrose Skelly; Grayburg	1381
3002535882	Apache	Hawk Fed B 1 031	O	N-9	4204	Penrose Skelly; Grayburg	1429
3002537202	Apache	State C Tract 12 021	O	C-16	7300	Wantz; Abo	1523
3002541262	Apache	WBDU 142	O	P-9	6849	Eunice; Bli-Tu-Dr, N	1523
3002538959	Apache	Hawk Fed B 1 068	O	P-9	4455	Penrose Skelly; Grayburg	1672

ALL WELLS IN WBDU 38 AREA OF REVIEW

3002525198	Chevron	Harry Leonard NCT E 006	O	A-16	6720	Penrose Skelly; Grayburg	1707
3002537998	Apache	Hawk Fed B 1 052	O	P-9	4358	Penrose Skelly; Grayburg	1727
3002535799	Apache	Hawk Fed B 1 026	O	K-9	4200	Penrose Skelly; Grayburg	1742
3002539442	Apache	WBDU 112	O	P-9	6965	Eunice; Bli-Tu-Dr, N	1774
3002535881	Apache	Hawk Fed B 1 030	O	I-9	4200	Penrose Skelly; Grayburg	1796
3002506627	Stanolind	State C TR 12 006	P&A	C-16	5762	Eunice; Bli-Tu-Dr, N	1848
3002536344	Apache	WBDU 045	O	N-9	6900	Eunice; Bli-Tu-Dr, N	1851
3002509908	Apache	WBDU 036	I	K-9	6773	Eunice; Bli-Tu-Dr, N	1854
3002520178	Apache	WBDU 042	I	I-9	6780	Eunice; Bli-Tu-Dr, N	1868
3002506623	Apache	WBDU 057	I	A-16	6699	Tubb Oil & Gas (Pro Gas)	1875
3002506628	Apache	WBDU 060	I	C-16	6699	Eunice; Bli-Tu-Dr, N	1891
3002535707	Apache	State C Tract 12 009	O	C-16	4450	Penrose Skelly; Grayburg	1902
3002539119	Apache	WBDU 098	O	B-16	6880	Penrose Skelly; Grayburg	2030
3002538200	Apache	WBDU 054	O	J-9	6900	Eunice; Bli-Tu-Dr, N	2033
3002536664	Apache	Hawk Fed B 1 041	G	K-9	4350	Penrose Skelly; Grayburg	2037
3002536686	Apache	Hawk Fed B 1 037	O	I-9	4350	Penrose Skelly; Grayburg	2042
3002536613	Apache	State C Tract 12 017	O	C-16	4386	Penrose Skelly; Grayburg	2084
3002538199	Apache	WBDU 053	O	I-9	6885	Eunice; Bli-Tu-Dr, N	2091
3002536533	Apache	Hawk Fed B 1 040	O	M-9	4775	Penrose Skelly; Grayburg	2106
3002536618	Apache	State C Tract 12 016	O	D-16	4350	Penrose Skelly; Grayburg	2114
3002538268	Apache	WBDU 064	O	F-16	6892	Eunice; Bli-Tu-Dr, N	2156
3002536741	Chevron	Harry Leonard NCT E 007	O	H-16	4345	Penrose Skelly; Grayburg	2193

ALL WELLS IN WBDU 38 AREA OF REVIEW

3002538267	Apache	WBDU 063	O	D-16	6845	Eunice; Bli-Tu-Dr, N	2222
3002541871	Apache	WBDU 201	O	G-9	6957	Eunice; Bli-Tu-Dr, N	2313
3002537242	Apache	NEDU 527	O	M-10	6862	Eunice; Bli-Tu-Dr, N	2409
3002536809	Apache	NEDU 526	O	D-15	6900	Eunice; Bli-Tu-Dr, N	2455
3002541548	Apache	WBDU 168	I	G-16	6982	Eunice; Bli-Tu-Dr, N	2532
3002539277	Apache	WBDU 113	O	A-16	6912	Penrose Skelly; Grayburg	2564
3002506441	Apache	WBDU 039	I	M-9	6770	Eunice; Bli-Tu-Dr, N	2624
3002541870	Apache	WBDU 197	O	H-9	Plan 6950	Eunice; Bli-Tu-Dr, N	2633
3002506620	Chevron	Harry Leonard NCT E 001	O	G-16	6670	Penrose Skelly; Grayburg	2640

ALL WELLS IN WBDU 39 AREA OF REVIEW

API	OPERATOR	WELL	TYPE	UNIT- SECTION- T21S-R37E	TVD	ZONE	FEET FROM WBDU 39
3002535796	Apache	Hawk Fed B 1 019	O	M-9	4200	Penrose Skelly; Grayburg	236
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
3002538267	Apache	WBDU 063	O	D-16	6845	Eunice; Bli-Tu-Dr, N	941
3002536618	Apache	State C Tract 12 016	O	D-16	4350	Penrose Skelly; Grayburg	1011
3002541454	Apache	State C Tract 12 COM 001Y	O	D-16	6872	Eunice; Bli-Tu-Dr, N	1028
3002541375	Apache	State C Tract 12 001H	P&A	D-16	1295	Fish	1043
3002536661	Apache	Lockhart A 17 009	O	A-17	4350	Penrose Skelly; Grayburg	1069
3002537742	Apache	WBDU 048	O	I-8	6950	Eunice; Bli-Tu-Dr, N	1105
3002538205	Apache	WBDU 070	O	A-17	6925	Eunice; Bli-Tu-Dr, N	1141
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
3002506433	Apache	WBDU 040	I	P-8	6758	Eunice; Bli-Tu-Dr, N	1327
3002535515	Apache	State C Tract 12 008	O	D-16	4450	Penrose Skelly; Grayburg	1329
3002509907	Apache	Hawk Fed B 1 006	O	N-9	7530	Eunice Monument; Grayburg S-A	1384
3002535795	Apache	Hawk Fed B 1 018	O	P-8	4200	Penrose Skelly; Grayburg	1511

ALL WELLS IN WBDU 39 AREA OF REVIEW

API	OPERATOR	WELL	TYPE	UNIT- SECTION- T21S-R37E	TVD	ZONE	FEET FROM WBDU 39
3002542569	Apache	WBDU 188	I	N-9	Plan 7200	Eunice; Bli-Tu-Dr, N	1518
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
3002538014	Apache	Hawk Fed B 1 050	O	I-8	4355	Penrose Skelly; Grayburg	1864
3002509908	Apache	WBDU 036	I	K-9	6773	Eunice; Bli-Tu-Dr, N	1868
3002506639	Apache	WBDU 067	W	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	1876
3002537202	Apache	State C Tract 12 021	O	C-16	7300	Wantz; Abo	1904
3002540274	Apache	WBDU 124	O	P-8	7300	Eunice; Bli-Tu-Dr, N	1912
3002506628	Apache	WBDU 060	I	C-16	6699	Eunice; Bli-Tu-Dr, N	1917
3002537379	Apache	Lockhart A 17 010	O	A-17	4360	Penrose Skelly; Grayburg	1929
3002536095	Apache	State C Tract 12 013	O	C-16	4150	Penrose Skelly; Grayburg	1934
3002536305	Apache	WBDU 062	O	D-16	6950	Eunice; Bli-Tu-Dr, N	1998
3002536115	Apache	State C Tract 12 012	O	E-16	4125	Penrose Skelly; Grayburg	2017
3002538206	Apache	WBDU 071	O	A-17	6905	Eunice; Bli-Tu-Dr, N	2024
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

ALL WELLS IN WBDU 39 AREA OF REVIEW

API	OPERATOR	WELL	TYPE	UNIT- SECTION- T21S-R37E	TVD	ZONE	FEET FROM WBDU 39
3002536663	Apache	Hawk Fed B 1 033	O	L-9	4345	Penrose Skelly; Grayburg	2056
3002538521	Apache	WBDU 055	O	I-8	6975	Eunice; Bli-Tu-Dr, N	2078
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
3002538196	Apache	WBDU 031	O	E-9	6945	Eunice; Bli-Tu-Dr, N	2175
3002538197	Apache	WBDU 051	O	O-9	6837	Eunice; Bli-Tu-Dr, N	2195
3002537020	Apache	WBDU 046	O	J-8	7383	Eunice; Bli-Tu-Dr, N	2208
3002537743	Apache	WBDU 049	O	J-9	6950	Eunice; Bli-Tu-Dr, N	2299
3002542493	Apache	WBDU 185	I	O-8	Plan 7200	Eunice; Bli-Tu-Dr, N	2432
3002506642	Apache	WBDU 065	O	B-17	6684	Drinkard	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
3002535880	Apache	Hawk Fed B 1 028	O	O-9	4200	Penrose Skelly; Grayburg	2636
3002506625	Apache	WBDU 058	I	E-16	6660	Eunice; Bli-Tu-Dr, N	2640

ALL WELLS IN WBDU 42 AREA OF REVIEW

API	OPERATOR	WELL	TYPE	UNIT- SECTION- T21S-R37E	TVD	ZONE	FEET FROM WBDU
3002535881	Apache	Hawk Fed B 1 030	O	I-9	4200	Penrose Skelly; Grayburg	155
3002539442	Apache	WBDU 112	O	P-9	6965	Eunice; Bli-Tu-Dr, N	762
3002538199	Apache	WBDU 053	O	I-9	6885	Eunice; Bli-Tu-Dr, N	836
3002537744	Apache	WBDU 050	O	J-9	6875	Eunice; Bli-Tu-Dr, N	863
3002537998	Apache	Hawk Fed B 1 052	O	P-9	4358	Penrose Skelly; Grayburg	895
3002536686	Apache	Hawk Fed B 1 037	O	I-9	4350	Penrose Skelly; Grayburg	895
3002541870	Apache	WBDU 197	O	H-9	Plan 6950	Eunice; Bli-Tu-Dr, N	931
3002536530	Apache	Hawk Fed B 1 036	O	P-9	4743	Penrose Skelly; Grayburg	934
3002541435	Apache	Southland Royalty A 002H	O	H-9	6926	Wantz; Abo	991
3002537200	Apache	WBDU 016	O	H-9	7298	Eunice; Bli-Tu-Dr, N	1016
3002539015	Apache	Southland Royalty A 028	O	H-9	4400	Penrose Skelly; Grayburg	1043
3002535806	Apache	Hawk Fed B 1 027	O	P-9	4200	Penrose Skelly; Grayburg	1174
3002537242	Apache	NEDU 527	O	M-10	6862	Eunice; Bli-Tu-Dr, N	1201
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
3002537444	Apache	NEDU 422	O	E-10	6900	Eunice; Bli-Tu-Dr, N	1323
3002506438	Apache	WBDU 033	I	J-9	6695	Eunice; Bli-Tu-Dr, N	1327

ALL WELLS IN WBDU 42 AREA OF REVIEW

API	OPERATOR	WELL	TYPE	UNIT- SECTION- T21S-R37E	TVD	ZONE	FEET FROM WBDU
3002535798	Apache	Hawk Fed B 1 025	O	J-9	4200	Penrose Skelly; Grayburg	1334
3002530913	Apache	NEDU 514	O	L-10	5990	Eunice; Bli-Tu-Dr, N	1366
3002541872	Apache	WBDU 202	O	G-9	6937	Eunice; Bli-Tu-Dr, N	1471
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	1567
3002541588	Apache	NEDU 540	O	L-10	6955	Eunice; Bli-Tu-Dr, N	1583
3002541161	Apache	NEDU 562	O	L-10	6978	Eunice; Bli-Tu-Dr, N	1644
3002506474	Apache	NEDU 501	P&A	L-10	5990	Eunice; Bli-Tu-Dr, N	1651
3002540363	Apache	WBDU 111	O	H-9	7199	Eunice; Bli-Tu-Dr, N	1731
3002541873	Apache	WBDU 206	O	H-9	6910	Eunice; Bli-Tu-Dr, N	1733
3002541262	Apache	WBDU 142	O	P-9	6849	Eunice; Bli-Tu-Dr, N	1780
3002537743	Apache	WBDU 049	O	J-9	6950	Eunice; Bli-Tu-Dr, N	1863
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	Wantz; Abo	1876
3002540851	Apache	NEDU 427	O	E-10	6955	Eunice; Bli-Tu-Dr, N	1893

ALL WELLS IN WBDU 42 AREA OF REVIEW

API	OPERATOR	WELL	TYPE	UNIT- SECTION- T21S-R37E	TVD	ZONE	FEET FROM WBDU
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; SA (Gas)	1946
3002538198	Apache	WBDU 052	O	O-9	6870	Eunice; Bli-Tu-Dr, N	1960
3002538200	Apache	WBDU 054	O	J-9	6900	Eunice; Bli-Tu-Dr, N	1968
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
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
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
3002541871	Apache	WBDU 201	O	G-9	6957	Eunice; Bli-Tu-Dr, N	2105
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
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

ALL WELLS IN WBDU 42 AREA OF REVIEW

API	OPERATOR	WELL	TYPE	UNIT- SECTION- T21S-R37E	TVD	ZONE	FEET FROM WBDU
3002536809	Apache	NEDU 526	O	D-15	6900	Eunice; Bli-Tu-Dr, N	2335
3002538416	Apache	Southland Royalty A 027	O	B-9	4157	Penrose Skelly; Grayburg	2342
3002542649	Apache	WBDU 196	O	G-9	Plan 7000	Eunice; Bli-Tu-Dr, N	2480
3002540789	Apache	NEDU 428	O	K-10	6971	Eunice; Bli-Tu-Dr, N	2501
3002538197	Apache	WBDU 051	O	O-9	6837	Eunice; Bli-Tu-Dr, N	2544
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

Sorted by distance from WBDU 38

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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 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 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										
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										

Sorted by distance from WBDU 38

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
WBDU 188	Plan	7200	Eunice; Bli-Tu-Dr, N	I	11	8.625	1380	440	GL	N/A
30-025-42569					7.875	5.5	7200	975	GL	N/A
N-9-21S-37E										
WBDU 178	11/22/14	6948	Penrose Skelly; Grayburg	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 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

Sorted by distance from WBDU 38

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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
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
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 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										

Sorted by distance from WBDU 38

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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										
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										
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

Sorted by distance from WBDU 38

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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	Tubb Oil; Gas (Pro Gas)	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 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										

Sorted by distance from WBDU 38

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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 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	CBL
D-16-21S-37E										

Sorted by distance from WBDU 38

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
WBDU 201	8/14/14	6957	Eunice; Bli-Tu-Dr, North	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										
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										
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 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										

Sorted by distance from WBDU 38

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
WBDU 113	9/15/09	6912	Penrose Skelly; Grayburg	O	12.25	8.625	1342	650 sx	GL	Circ
30-025-39277					7.875	5.5	6912	1000 sx	GL	Circ
A-16-21S-37E										
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
WBDU 197	Plan	6950	Plan: Eunice; Bli-Tu- Dr, N	O	N/A	N/A	N/A	N/A	N/A	N/A
30-025-41870										
H-9-21S-37E										
Harry Leonard NCT E 001	10/4/05	6670	Penrose Skelly; Grayburg	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

Sorted by distance from WBDU 39

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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 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	CBL
D-16-21S-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 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 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										
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	2795	500 sx	1806	No report
L-9-21S-37E					8.75	7	6689	750 sx	2675	Temp Survey

Sorted by distance from WBDU 39

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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
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 188	Plan	7200	Plan: 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 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
WBDU 041	2/9/50	6775	Eunice; Bli-Tu-Dr, N	I	16.25	13.375	213	250 sx	GL	Circ
3002506434					12.25	9.625	2684	1750 sx	1300	Temp Survey
I-8-21S-37E					10.75	7	6774	822 sx	2804	Temp Survey
WBDU 130	Plan	7200	Plan: 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										

Sorted by distance from WBDU 39

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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 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										
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 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										
WBDU 031	3/27/07	6945	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1315	575 sx	GL	Circ
30-025-38196					7.875	5.5	6945	1150 sx	230	CBL
E-9-21S-37E										

Sorted by distance from WBDU 39

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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 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-8-21S-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										
WBDU 185	Plan	7200	Plan: Eunice; Bli-Tu-Dri, 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
WBDU 058	7/18/47	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

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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										
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 197	Plan	6950	Eunice; Bli-Tu-Dr, N	O	11	8.625	1320	450 sx	GL	N/A
30-025-41870					7.875	5.5	6950	900 sx	GL	N/A

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
Southland Royalty A 002H	11/28/13	6926	Wantz; Abo	O	17.5	13.375	1304	1085 sx	GL	Circ 96 sx
30-025-41435					11	8.625	6204	1225 sx	GL	calculated
H-9-21S-37E					7.875	5.5	11229	1300 sx	GL	Circ 73 sx
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 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 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

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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
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										
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										

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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										
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										
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										

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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										
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										
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										
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

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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
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	estimated
G-9-21S-37E					8.75	7	6684	600 sx	5175	Temp Survey
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										
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

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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 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										
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
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										

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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										
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	Circ
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										

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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										
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										

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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

Sorted by distance from WBDU 42

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
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



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	POD Sub-Code	basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00554		LE		2	2	16	21S	37E		672744	3595610*	570	80	70	10
CP 00162		LE		1	4	2	09	21S	37E	672621	3596915*	953	120		
CP 00163	1610 meters = 1 mile	LE		1	4	2	09	21S	37E	672621	3596915*	953	120		
CP 00164		LE		2	1	1	21	21S	37E	671665	3594080*	2038	120		
CP 00552		LE		2	4	04	21S	37E		672700	3598022*	2048	90	75	15
CP 00553		LE		2	4	04	21S	37E		672700	3598022*	2048	90	75	15
CP 01141 POD2		LE		3	4	3	15	21S	37E	673541	3594250	2130	40		
CP 01141 POD3		LE		3	4	3	15	21S	37E	673541	3594250	2130	40		
CP 01141 POD4		LE		3	4	3	15	21S	37E	673541	3594250	2130	45		
CP 01575 POD1	CP	LE		1	2	1	22	21S	37E	673543	3594200	2172	40	35	5
CP 01575 POD2	CP	LE		2	2	1	22	21S	37E	673610	3594192	2217	35	35	0
CP 01185 POD1		LE		1	3	14	21S	37E		674598	3594689	2619	70		
CP 01574 POD1	CP	LE		2	4	4	15	21S	37E	674563	3594599	2635	68	57	11
CP 01185 POD2		LE		1	3	14	21S	37E		674623	3594674	2648	70		
CP 01185 POD3		LE		1	3	14	21S	37E		674592	3594620	2649	70		
CP 01185 POD4		LE		1	3	14	21S	37E		674633	3594610	2689	70		
CP 01574 POD2	CP	LE		1	3	3	14	21S	37E	674654	3594594	2715	68	57	11
CP 01026 POD1		LE		1	1	3	17	21S	37E	669809	3594958	2733	167	95	72
CP 00447		LE		2	4	4	18	21S	37E	669647	3594451*	3104	95		
CP 00895		LE		1	1	20	21S	37E		669957	3593956*	3138	163		

EXHIBIT I

*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.

Average Depth to Water: 62 feet

Minimum Depth: 35 feet

Maximum Depth: 95 feet

Record Count: 20

UTMNAD83 Radius Search (in meters): WBDU 38

Easting (X): 672334

Northing (Y): 3596006

Radius: 3220

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00554		LE		2	2	16	21S	37E		672744	3595610*	1272	80	70	10
CP 00162		LE		1	4	2	09	21S	37E	672621	3596915*	1427	120		
CP 00163		LE		1	4	2	09	21S	37E	672621	3596915*	1427	120		
CP 00164		LE		2	1	1	21	21S	37E	671665	3594080*	1918	120		
CP 01026 POD1		LE		1	1	3	17	21S	37E	669809	3594958	2009	167	95	72
CP 00552		LE		2	4	04	21S	37E		672700	3598022*	2340	90	75	15
CP 00553		LE		2	4	04	21S	37E		672700	3598022*	2340	90	75	15
CP 00447		LE		2	4	4	18	21S	37E	669647	3594451*	2435	95		
CP 00676		LE		4	4	18	21S	37E		669548	3594352*	2574	140	106	34
CP 00895		LE		1	1	20	21S	37E		669957	3593956*	2575	163		
CP 01141 POD2		LE		3	4	3	15	21S	37E	673541	3594250	2660	40		
CP 01141 POD3		LE		3	4	3	15	21S	37E	673541	3594250	2660	40		
CP 01141 POD4		LE		3	4	3	15	21S	37E	673541	3594250	2660	45		
CP 01575 POD1	CP	LE		1	2	1	22	21S	37E	673543	3594200	2694	40	35	5
CP 01575 POD2	CP	LE		2	2	1	22	21S	37E	673610	3594192	2751	35	35	0
CP 00986 POD1		LE		4	3	4	06	21S	37E	669110	3597437	2818	154		
CP 00985 POD1		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: 17

UTMNAD83 Radius Search (in meters): WBDU 39

Easting (X): 671531

Northing (Y): 3595994

Radius: 3220

*UTM location was derived from PLSS - see Help

EXHIBIT I

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New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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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															
Sub-															
Q Q Q															
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00162			LE	1	4	2	09	21S	37E	672621	3596915*	511	120		
CP 00163			LE	1	4	2	09	21S	37E	672621	3596915*	511	120		
CP 00554			LE		2	2	16	21S	37E	672744	3595610*	805	80	70	10
CP 00552			LE		2	4	04	21S	37E	672700	3598022*	1607	90	75	15
CP 00553			LE		2	4	04	21S	37E	672700	3598022*	1607	90	75	15
1610 meters															
CP 01141 POD2	= 1 mile		LE	3	4	3	15	21S	37E	673541	3594250	2311	40		
CP 01141 POD3			LE	3	4	3	15	21S	37E	673541	3594250	2311	40		
CP 01141 POD4			LE	3	4	3	15	21S	37E	673541	3594250	2311	45		
CP 01575 POD1		CP	LE	1	2	1	22	21S	37E	673543	3594200	2358	40	35	5
CP 01575 POD2		CP	LE	2	2	1	22	21S	37E	673610	3594192	2390	35	35	0
CP 01185 POD1			LE		1	3	14	21S	37E	674598	3594689	2543	70		
CP 00164			LE	2	1	1	21	21S	37E	671665	3594080*	2566	120		
CP 01185 POD2			LE		1	3	14	21S	37E	674623	3594674	2571	70		
CP 01574 POD1		CP	LE	2	4	4	15	21S	37E	674563	3594599	2579	68	57	11
CP 01185 POD3			LE		1	3	14	21S	37E	674592	3594620	2586	70		
CP 01185 POD4			LE		1	3	14	21S	37E	674633	3594610	2622	70		
CP 01574 POD2		CP	LE	1	3	3	14	21S	37E	674654	3594594	2649	68	57	11

Average Depth to Water: **57 feet**

Minimum Depth: **35 feet**

Maximum Depth: **75 feet**

Record Count: 17

UTMNAD83 Radius Search (In meters): **WBDU 42**

Easting (X): 672730

Northing (Y): 3596415

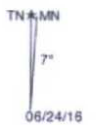
Radius: 3220

*UTM location was derived from PLSS - see Help

EXHIBIT I

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.

WGS84 Zone 13S 674000m E.



Analytical Report

Lab Order 1601901

Date Reported: 2/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: Apache Decky Pond CP 00162

Project: Apache WBDUSWD

Collection Date: 1/20/2016 4:48:00 PM CP 00163

Lab ID: 1601901-001

Matrix: AQUEOUS

Received Date: 1/25/2016 11:19:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664A							Analyst: tnc
N-Hexane Extractable Material	ND	13		mg/L	1	1/25/2016 1:30:00 PM	23379
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	260	10	*	mg/L	20	1/25/2016 5:03:44 PM	R31665
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	751	20.0	*	mg/L	1	1/28/2016 6:43:00 PM	23428

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

EXHIBIT J

Analytical Report

Lab Order 1601901

Date Reported: 2/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: Apache Section 15 not in SEO data

Project: Apache WBDUSWD

Collection Date: 1/21/2016 11:33:00 AM

Lab ID: 1601901-004

Matrix: AQUEOUS

Received Date: 1/25/2016 11:19:00 AM

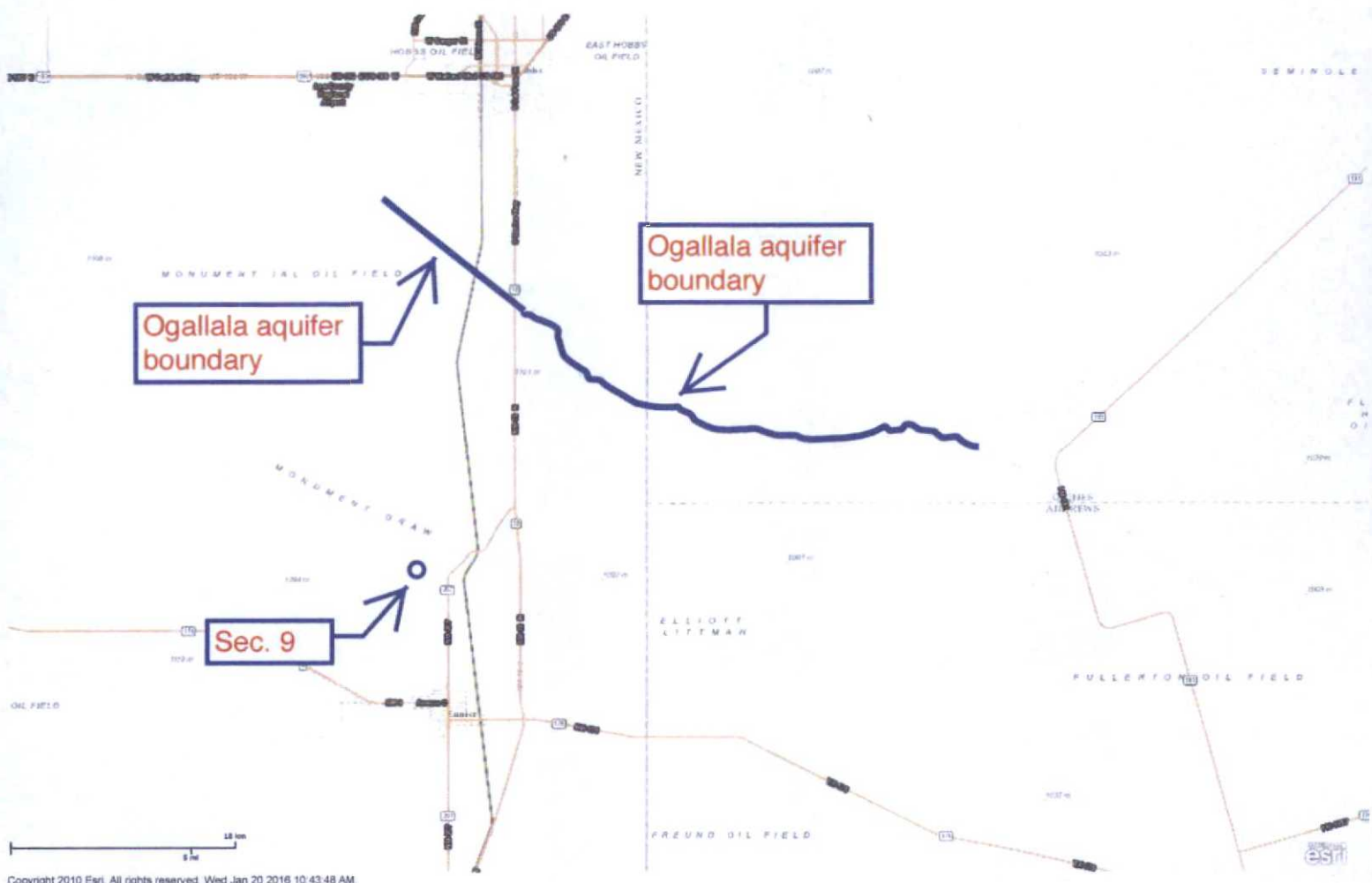
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664A							Analyst: tnc
N-Hexane Extractable Material	ND	9.9		mg/L	1	1/25/2016 1:30:00 PM	23379
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	620	25	*	mg/L	50	1/26/2016 7:36:31 PM	R31714
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	1570	20.0	*	mg/L	1	1/28/2016 6:43:00 PM	23428

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

EXHIBIT J

Ogallala boundary



Copyright 2010 Esri. All rights reserved. Wed Jan 20 2016 10:43:48 AM

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



Brian,

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

Regards,

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

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

Martin:

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

Please contact me or Justin if you have further questions.

Sincerely,

DR. MARK PASLEY
GEOLOGICAL ADVISOR
direct +1 432.818.1835 | mobile +1 832.943.9040 | office 6112A
APACHE PERMIAN
303 Veterans Airpark Lane
Midland, TX 79705 USA
ApacheCorp.com | [LinkedIn](#) | [Facebook](#) | [Twitter](#) | [StockTwits](#) | [YouTube](#)





Geologic Hazards Science Center

EHP Quaternary Faults

Search for fault:

Select a state or region map:

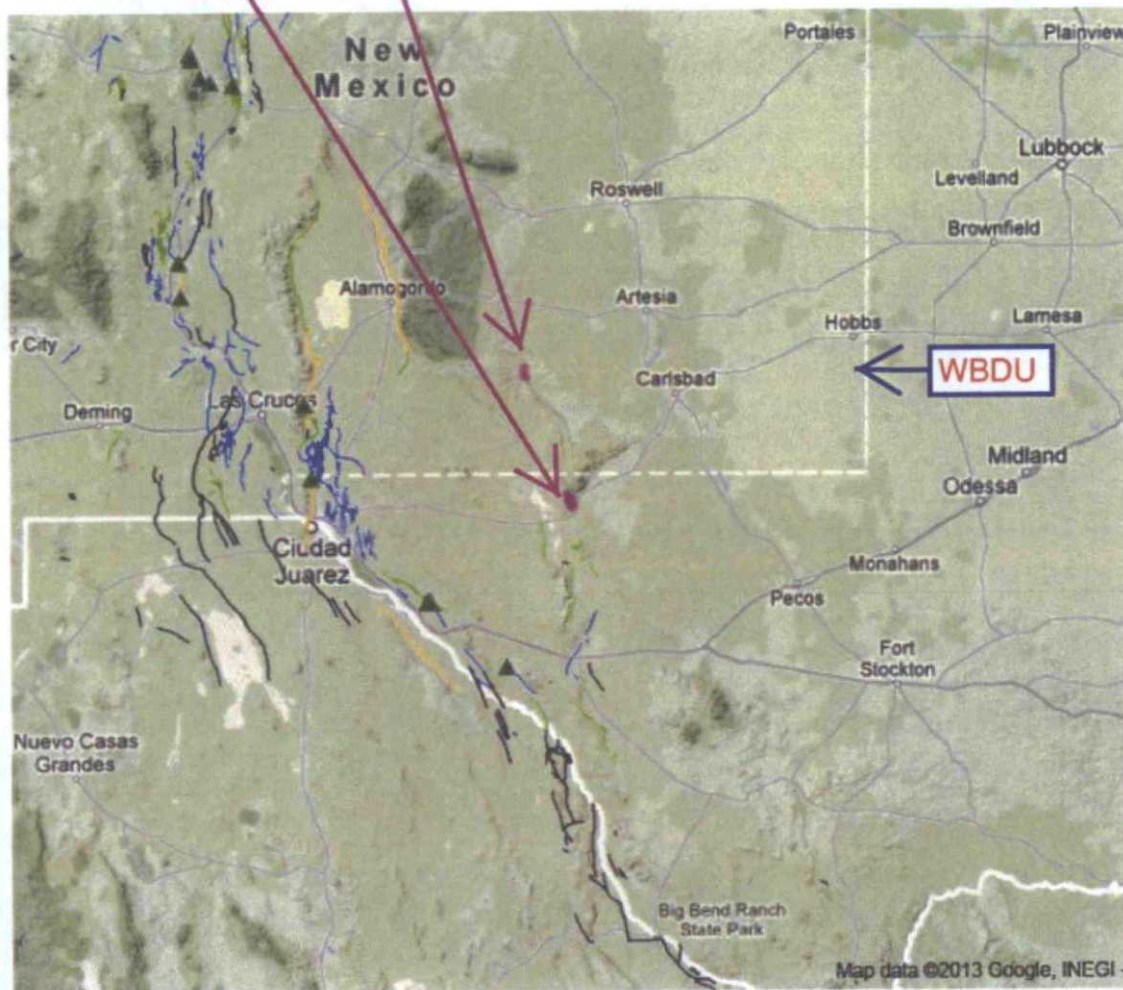


EXHIBIT K

Affidavit of Publication

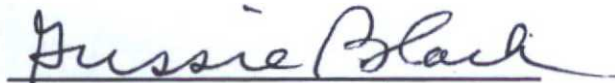
STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

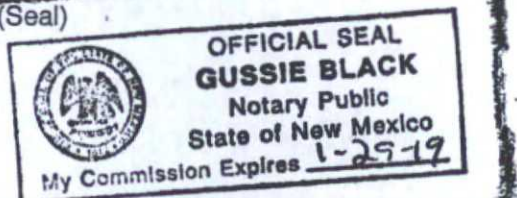
Beginning with the issue dated
June 09, 2016
and ending with the issue dated
June 09, 2016.


Publisher

Sworn and subscribed to before me this
9th day of June 2016.


Business Manager

My commission expires
January 20, 2018
(Seal)



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 NOTICE June 9, 2016

Apache Corporation is applying to change the injection interval and injection rate of 3 existing water injection wells in the West Blinberry Drinkard Unit in Section 9, T. 21 S., R. 37 E., Lea County, NM. Injection will be in the Drinkard zone. 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	6480' - 6729'
39	660 FSL & 660 FWL	6510' - 6762'
42	1980 FSL & 660 FEL	6470' - 6722'

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.
#30985

02108485

00176143

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

EXHIBIT L

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

July 5, 2016

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

TYPICAL LETTER

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 Drinkard Injection Interval	Proposed TD
38	660 FSL & 1980 FEL	6480' - 6729'	6770'
39	660 FSL & 660 FWL	6510' - 6762'	6770'
42	1980 FSL & 660 FEL	6470' - 6722'	6780'

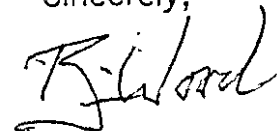
Applicant Name: Apache Corporation (432) 818-1062

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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Sent To **Millard Deck Estate 4193 c/o Harding & Carbone Inc.**
Street and Apt. No., or P.O. Box **3903 Bellaire Blvd.**
City, State, ZIP+4® **Houston TX 77025**

PECOS NM
JUL 6 2016
7552-99

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Carlsbad NM 88220

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Salina Beach CA 92075

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605 Richard Arrington Jr. Blvd.
Birmingham AL 35203

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333 W. Sheridan Ave.
Oklahoma City OK 73102

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Sent To **Elliott Hall Co. UT LP**
PO Box 1231
Ogden UT 84402

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

City, State, ZIP+4® **APC WBDU 38,39,40**

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

EXHIBIT M

7015 1730 0001 0168 5658

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

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

Certified Mail Fee
 \$

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

Postage
 \$

Total Postage and Fees
 \$

Sent To
 Kerr-McGee c/o Anadarko
 1099 18th St., Suite 1800
 Street and Apt. No., or PO Box No. Denver CO 80202
 City, State, ZIP+4® APC WBDU 38,39,40

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

7015 1730 0001 0168 8765

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

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Certified Mail Fee
 \$

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

Postage
 \$

Total Postage and Fees
 \$

Sent To
 Penroc Oil Corp
 PO Box 2769
 Street and Apt. No., or PO Box No. Hobbs NM 88241
 City, State, ZIP+4® APC WBDU 38,39,40

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

7015 1730 0001 0168 5665

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

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

Certified Mail Fee
 \$

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

Postage
 \$

Total Postage and Fees
 \$

Sent To
 Lanexco Inc.
 PO Box 2730
 Street and Apt. No., or PO Box No. Midland TX 79702
 City, State, ZIP+4® APC WBDU 38,39,40

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

7015 1730 0001 0168 5641

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

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

Certified Mail Fee
 \$

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

Postage
 \$

Total Postage and Fees
 \$

Sent To
 John H. Hendrix Corp
 110 N. Marienfeld, Suite 400
 Street and Apt. No., or PO Box No. Midland TX 79701
 City, State, ZIP+4® APC WBDU 38,39,40

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

7015 1730 0001 0168 5689

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

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

Certified Mail Fee
 \$

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

Postage
 \$

Total Postage and Fees
 \$

Sent To
 NM Co. Inc.
 PO Box 11090
 Street and Apt. No., or PO Box No. Midland TX 79702
 City, State, ZIP+4® APC WBDU 38,39,40

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

7015 1730 0001 0168 5672

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

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

Certified Mail Fee
 \$

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

Postage
 \$

Total Postage and Fees
 \$

Sent To
 Robert Lansford
 806 Abo
 Street and Apt. No., or PO Box No. Hobbs NM 88240
 City, State, ZIP+4® APC WBDU 38,39,40

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

EXHIBIT M

7015 1730 0001 0168 5696

CERTIFIED MAIL® RECEIPT
Domestic Mail Only

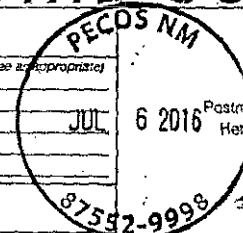
For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee \$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$
Postage \$
Total Postage and Fees \$

Sent To Occidental Permian Ltd
PO Box 4294
Houston TX 77210
City, State, ZIP+4® APC WBDU 38,39,40

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



7015 1730 0001 0168 5702

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

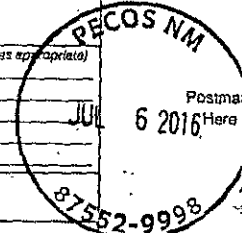
For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee \$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$
Postage \$
Total Postage and Fees \$

Sent To Oxy USA WTP LP
6 Desta Dr., #6000
Midland TX 79705
City, State, ZIP+4® APC WBDU 38,39,40

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



7015 1730 0001 0168 5714

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

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

OFFICIAL USE

Certified Mail Fee \$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$
Postage \$
Total Postage and Fees \$

Sent To Oxy USA WTP LP
PO Box 4294
Houston TX 77210
City, State, ZIP+4® APC WBDU 38,39,40

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

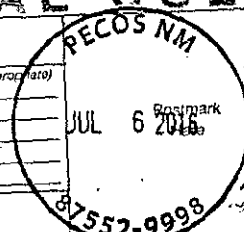


EXHIBIT M

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.		- 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 & 3903 Bellaire Blvd. Houston TX 77025 APC-WBDU 38,39,42 9590 9403 0887 5223 6597 12		A. Signature B. Received by (Printed Name) Carboni Inc. C. Date of Delivery 7/15/15 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	
2. Article Number (Transfer from service label) 7015 1730 0001 0168 5542		1. Article Addressed to: Devon Energy Prod. Co. LP 333 W. Sheridan Ave. Oklahoma City OK 73102 APC-WBDU 38,39,42 9590 9403 0887 5223 6597 29	
PS Form 3811, July 2015 PSN 7530-02-000-9053		PS Form 3811, July 2015 PSN 7530-02-000-9053	

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.		- 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 9403 0887 5223 6597 36		A. Signature B. Received by (Printed Name) Elliott Industries C. Date of Delivery 7/15/15 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	
2. Article Number (Transfer from service label) 7015 1730 0001 0168 5504		1. Article Addressed to: Elliott Industries PO Box 1328 Santa Fe NM 87504 APC-WBDU 38,39,42 9590 9403 0887 5223 6592 24	
PS Form 3811, July 2015 PSN 7530-02-000-9053		PS Form 3811, July 2015 PSN 7530-02-000-9053	

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.		- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	
1. Article Addressed to: Chevron USA Inc. 6301 Deauville Midland TX 79706 APC-WBDU 38,39,42 9590 9403 0887 5223 6596 99		A. Signature B. Received by (Printed Name) Energen Resources Co. C. Date of Delivery 7/15/15 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	
2. Article Number (Transfer from service label) 7015 1730 0001 0168 5528		1. Article Addressed to: Energen Resources Co. 605 Richard Arrington Jr. Blvd. Birmingham AL 35203 APC-WBDU 38,39,42 9590 9403 0887 5223 6587 08	
PS Form 3811, July 2015 PSN 7530-02-000-9053		PS Form 3811, July 2015 PSN 7530-02-000-9053	

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.		- Complete items 1, 2, and 3. - Print your name and address on the reverse so that we can return the card to you. - Attach this card to the back of the mailpiece, or on the front if space permits.	
1. Article Addressed to: Chevron USA Prod. Co. Box 1635 Houston TX 77251 APC-WBDU 38,39,42 9590 9403 0887 5223 6596 82		A. Signature B. Received by (Printed Name) McMill Corporation C. Date of Delivery 7/15/15 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	
2. Article Number (Transfer from service label) 7015 1730 0001 0168 5511		1. Article Addressed to: McMill Corporation PO Box 4358 Houston TX 77210 APC-WBDU 38,39,42 9590 9403 0887 5223 6599 03	
PS Form 3811, July 2015 PSN 7530-02-000-9053		PS Form 3811, July 2015 PSN 7530-02-000-9053	

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.		- 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 9403 0887 5223 6597 05		A. Signature B. Received by (Printed Name) Elliott Hall Co. UT LP C. Date of Delivery 7/15/15 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery	
2. Article Number (Transfer from service label) 7015 1730 0001 0168 5535		1. Article Addressed to: Elliott Hall Co. UT LP PO Box 1231 Ogden UT 84402 APC-WBDU 38,39,42 9590 9403 0887 5223 6592 17	
PS Form 3811, July 2015 PSN 7530-02-000-9053		PS Form 3811, July 2015 PSN 7530-02-000-9053	

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:

Mark Hannifin
PO Box 11182
Midland TX 79702

APC-WBDU 38,39,42

9590 9403 0887 5223 6598 97

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5510

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Cindy Blair*

B. Received by (Printed Name)
C. Date of Delivery
7-13-16

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

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

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

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:

4M Co. Inc.
PO Box 11090
Midland TX 79702

APC-WBDU 38,39,42

9590 9403 0887 5223 6598 28

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5589

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *W. Roman*

B. Received by (Printed Name)
C. Date of Delivery
JUL 10 2016

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

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

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

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
PO Box 218
Midland TX 79702

APC-WBDU 38,39,42

9590 9403 0887 5223 6598 73

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5634

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Cindy Blair*

B. Received by (Printed Name)
C. Date of Delivery
7-13-16

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

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

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

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:

Occidental Permian Ltd
PO Box 4294
Houston TX 77210

APC-WBDU 38,39,42

9590 9403 0887 5223 6598 11

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5696

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Frederick*

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

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

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

☐ 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:

John H. Hendrix Corp
110 N. Martenfeld, Suite 400
Midland TX 79701

APC-WBDU 38,39,42

9590 9403 0887 5223 6598 66

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5611

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Dan Simon*

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

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

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

☐ 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:

Oxy USA WTP LP
PO Box 4294
Houston TX 77210

APC-WBDU 38,39,42

9590 9403 0887 5223 6597 98

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5719

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Orlando*

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

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

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

☐ 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:

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

APC-WBDU 38,39,42

9590 9403 0887 5223 6598 69

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5658

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *X. Stevens*

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

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

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

☐ 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:

Oxy USA WTP LP
6 Desta Dr., #6000
Midland TX 79705

APC-WBDU 38,39,42

9590 9403 0887 5223 6598 04

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5702

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Vanessa Vega*

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

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

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

☐ 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 Lansford
606 Aho
Hobbs NM 88240

APC-WBDU 38,39,42

9590 9403 0887 5223 6598 35

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5672

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Robert Lansford*

B. Received by (Printed Name)
C. Date of Delivery
JUL - 9 2016

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

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

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

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:

Penroc Oil Corp
PO Box 2769
Hobbs NM 88241

APC-WBDU 38,39,42

9590 9403 0887 5223 6597 81

2. Article Number (Transfer from service label)

7015 1730 0001 0168 8765

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Penroc Oil Corp*

B. Received by (Printed Name)
C. Date of Delivery
JUL 13 2016

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

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

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

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:

Petro Strategies Inc.
PO Box 5562
Midland TX 79704
APC-WBDU 38,39,42

9590 9403 0887 5223 6597 74

2. Article Number (Transfer from service label)

7015 1730 0001 0168 8772

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

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:

Six Aeches Co
PO Box 1327
Edmond OK 73083
APC-WBDU 38,39,42

9590 9403 0887 5223 6597 43

2. Article Number (Transfer from service label)

7015 1730 0001 0168 6802

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

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
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9590 9403 0887 5223 6597 43

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APC-WBDU 38,39,42

9590 9403 0887 5223 6597 43

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7015 1730 0001 0168 6802

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

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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:

Patrick Hannifin
765 Santa Camella Dr.
Saltona Beach CA 92075
APC-WBDU 38,39,42

9590 9403 0887 5223 6598 80

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5627

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

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.
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Patrick Hannifin
765 Santa Camella Dr.
Saltona Beach CA 92075
APC-WBDU 38,39,42

9590 9403 0887 5223 6598 80

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5627

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

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APC-WBDU 38,39,42

9590 9403 0887 5223 6598 80

2. Article Number (Transfer from service label)

7015 1730 0001 0168 5627

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

RETURN RECEIPT
REQUESTED

FIRST CLASS

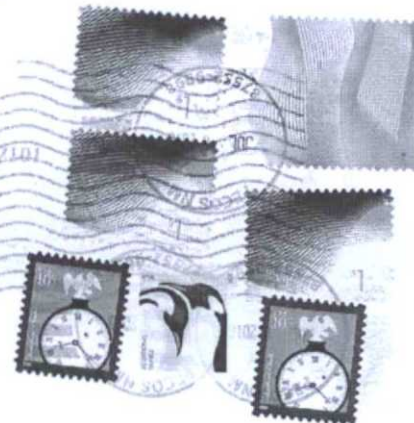
PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS
37 VERANO LOOP SANTA FE, NEW MEXICO 87508

NIXIE 920752421-1N 07/14/16

RETURN TO SENDER
UNABLE TO FORWARD
UNABLE TO FORWARD
RETURN TO SENDER



7015 1730 0001 0168 5627
Albuquerque NM P&DC 67101
WED 06 JUL 2016 PM



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM90161

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7. If Unit or CA/Agreement, Name and/or No.
NMNM120042X

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION8. Well Name and No.
WEST BLINEBRY DRINKARD UNIT 382. Name of Operator
APACHE CORPORATIONContact: REESA FISHER
E-Mail: Reesa.Fisher@apachecorp.com9. API Well No.
30-025-099063a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-106210. Field and Pool, or Exploratory
EUNICE; B-T-D, NORTH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 9 T21S R37E SWSE 660FSL 1980FEL

11. County or Parish, and State

LEA COUNTY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Workover Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Apache would like to amend the following proposed depths to align with OCD C-108 Injection Application:

Injection Packer set @ 6450'
Drinkard Perfs 6480'-6729'

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #346930 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Hobbs

Name (Printed/Typed) REESA FISHER

Title SR STAFF REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/05/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM90161

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7. If Unit or CA/Agreement, Name and/or No.
NMNM120042X

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other: INJECTION8. Well Name and No.
WEST BLINEBRY DRINKARD UNIT 392. Name of Operator
APACHE CORPORATIONContact: REESA FISHER
E-Mail: Reesa.Fisher@apachecorp.com9. API Well No.
30-025-064413a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-106210. Field and Pool, or Exploratory
EUNICE; B-T-D, NORTH

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 9 T21S R37E SWSW 660FSL 660FWL

11. County or Parish, and State

LEA COUNTY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Workover Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Apache would like to amend the following proposed depths to align with OCD C-108 Injection Application:

Injection Packer set @ 6450'
Drinkard Perfs 6510'-6762'

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #346929 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Hobbs

Name (Printed/Typed) REESA FISHER

Title SR STAFF REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/05/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other Instructions on reverse side.**

1. Type of Well ☐ Oil Well ☐ Gas Well ☒ Other: INJECTION		5. Lease Serial No. NMNM90161
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
Contact: REESA FISHER E-Mail: Reesa.Fisher@apachecorp.com		7. If Unit or CA/Agreement, Name and/or No. NMNM120042X
3a. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1062	8. Well Name and No. WEST BLINEBRY DRINKARD UNIT 42
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 9 T21S R37E NESE 1980FSL 660FEL		9. API Well No. 30-025-20178
		10. Field and Pool, or Exploratory EUNICE; B-T-D, NORTH
		11. County or Parish, and State LEA COUNTY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Workover Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Apache would like to amend the following proposed depths to align with OCD C-108 Injection Application:

Injection Packer set @ 6450'
Drinkard Perfs 6470'-6722'

14. I hereby certify that the foregoing is true and correct. Electronic Submission #346927 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Hobbs	
Name (Printed/Typed) REESA FISHER	Title SR STAFF REGULATORY ANALYST
Signature (Electronic Submission)	Date 08/05/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

McMillan, Michael, EMNRD

From: Brian Wood <brian@permitswest.com>
Sent: Friday, August 05, 2016 8:36 AM
To: McMillan, Michael, EMNRD
Subject: Apache - WBDU 38, 39, & 42
Attachments: WBDU 38, 39, 42 Amendment Sundries.pdf

C-108 application package is correct.

Apache has filed today Sundries (below) to conform with C-108.

McMillan, Michael, EMNRD

From: Brian Wood <brian@permitswest.com>
Sent: Friday, August 05, 2016 8:41 AM
To: McMillan, Michael, EMNRD
Subject: Re: Apache - WBDU 38, 39, & 42

The Sundries on line are incorrect.

This morning's attachment revises the Sundries that are on line.

> On Aug 5, 2016, at 8:38 AM, McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us> wrote:

>

> So the Apache sundry is incorrect?

> Mike

>

> -----Original Message-----

> From: Brian Wood [mailto:brian@permitswest.com]

> Sent: Friday, August 05, 2016 8:36 AM

> To: McMillan, Michael, EMNRD

> Subject: Apache - WBDU 38, 39, & 42

>

> C-108 application package is correct.

> Apache has filed today Sundries (below) to conform with C-108.

C-108 Review Checklist: Received 7/6/2016 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 15]ORDER TYPE: VFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: L-12981Well No. 38 Well Name(s): WBD4API: 30-0 25-09906 Spud Date: 11-4-1948 New or Old: 0 (UIC Class II Primacy 03/07/1982)Footages 660 FSL 1480 FSL Lot _____ or Unit _____ Sec 9 Tsp 216 Rge 37E County LEGGeneral Location: 2 3/4 miles N/NE of well Pool: ENHILCJBL-T-003 N/NE Pool No.: 22900BLM 100K Map: 5A1 Operator: Apache Corp OGRID: 873 Contact: Brian WoodgettCOMPLIANCE RULE 5.9: Total Wells: 3003 Inactive: 7 Fincl Assur: Y Compl. Order? NA IS 5.9 OK? Y Date: 8-05-2016WELL FILE REVIEWED ☐ Current Status: Eng -> Bli + DWELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: NAPlanned Rehab Work to Well: Run 4 1/2" Liner

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 1/2 / 13 3/8</u>	<u>212</u>	<u>200</u>	<u>Surf well / Visu</u>
Planned ___ or Existing ___ Interm/Prod		<u>12 1/4 / 9 5/8</u>	<u>2794</u>	<u>500</u>	<u>1450 / TS</u>
Planned ___ or Existing ___ Interm/Prod		<u>8 3/4 / 7</u>	<u>7676</u>	<u>900</u>	<u>2700 / TS</u>
Planned ___ or Existing ___ Prod/Liner		<u>1 / 4 1/2</u>	<u>6810</u>	<u>5500</u>	<u>692</u>
Planned ___ or Existing ___ OH / PERF		<u>6500 / 6736</u>			<u>Surf well / C-B-L</u>
Inj Length					
Completion/Operation Details:					
Drilled TD <u>6767</u> PBTD <u>6770</u>					
NEW TD <u>6825</u> NEW PBTD <u>6825</u>					
NEW Open Hole ☐ or NEW Perfs ☒					
Tubing Size <u>2 3/8</u> in. Inter Coated? <u>Y</u>					
Proposed Packer Depth <u>6400</u> ft					
Min. Packer Depth <u>6500</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>1563</u> HYDRO AFFIRM STATEMENT By Qualified Person ☒					
NMOSE Basin: <u>CAP. Reef</u> CAPITAN REEF: thru adj <u>NA</u> No. Wells within 1-Mile Radius? <u>3</u> FW Analysis <u>Y</u>					
Disposal Fluid: Formation Source(s) <u>Produced H2O</u> Analysis? _____ On Lease ☐ Operator Only ☐ or Commercial ☐					
Disposal Int: Inject Rate (Avg/Max BWPD): <u>2.54 / 314</u> Protectable Waters? <u>N</u> 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? <u>Y</u> Total No. Wells Penetrating Interval: <u>70</u> Horizontals? <u>NA</u>					
Penetrating Wells: No. Active Wells <u>70</u> Num Repairs? _____ on which well(s)? _____ Diagrams? _____					
Penetrating Wells: No. P&A Wells <u>0</u> Num Repairs? _____ on which well(s)? _____ Diagrams? _____					
NOTICE: Newspaper Date <u>6/9/16</u> Mineral Owner <u>BLM</u> Surface Owner <u>mi land</u> N. Date _____					
RULE 26.7(A): Identified Tracts? _____ Affected Persons: <u>Apache</u> N. Date <u>MA</u>					

Order Conditions: Issues: Run C-13-L Surface

Add Order Cond: _____



C-108 Review Checklist: Area Order

Supplemental Checklist for Multiple Well Application

ORDER TYPE: WFX / PMX Number: _____

SUPPLEMENTAL PAGE 2 of 2

Relevant Hearing Order(s): _____

MULTIPLE WELL APPLICATION: 2 of 3 Well No. 34 Well Name(s): WBDU
API: 30-0 25-06441 Spud Date: 4-20-1948 New or Old: 2 (UIC Class II Primacy 03/07/1982)
Footages 660FSL Lot _____ or Unit M Sec 9 Tsp 21S Rge 37E County Lee
WELL FILE REVIEWED ☒ Current Status: Eng -> RDRINKER + BLINER
WELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☒ After Conv. ☒ Logs in Imaging: gr-natural
Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement St or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>12 1/2 / 13 3/4</u>	<u>200</u>	<u>250</u>	<u>SURFACE</u>
Planned ___ or Existing ___ Interm/Prod	<u>12 1/4 / 15 1/4</u>	<u>2824</u>	<u>500</u>	<u>1210 / 15470</u>
Planned ___ or Existing ___ Interm/Prod	<u>8 1/4 / 7</u>	<u>6769</u>	<u>64970</u>	<u>SURFACE</u>
Planned ___ or Existing ___ Prod/Liner	<u>1 1/2</u>	<u>6810</u>	<u>5500</u>	<u>67</u>
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ OH / PERF	<u>6500 / 6720</u>		<u>Inj Length</u> <u>220</u>	Hydrologic Information and AOR Well Summary on Coversheet

Completion/Operation Details: Drilled TD 6770 PBDT 6585 NEW TD 6810 NEW PBDT 6795
NEW Open Hole ☐ or NEW Perfs ☒ Tubing Size 2 3/4 in. Coated? X Prop. Packer Depth 6500 ft Min. Depth _____ (100-ft limit)
Proposed Max. Surface Press. 1120 psi Admin. Inj. Press. _____ (0.2 psi per ft) ANY AREA IPI APPROVAL: 12-2981
Specific Requirement(s) for Well: Run C-B-L Annular 4 1/2" Liner -> Surface

MULTIPLE WELL APPLICATION: 3 of 3 Well No. 4 Well Name(s): WBDU
API: 30-0 25-20178 Spud Date: 4-13-1963 New or Old: 2 (UIC Class II Primacy 03/07/1982)
Footages 1980FSL Lot _____ or Unit Z Sec 9 Tsp 21S Rge 37E County Lee
WELL FILE REVIEWED ☒ Current Status: Eng -> BLITDR
WELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: Groundlog, SONIC
Planned Rehab Work to Well: Run 4 1/2" Liner to Surface

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement St or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>12 1/4 / 15 1/4</u>	<u>1294'</u>	<u>450</u>	<u>Surface (Vis.)</u>
Planned ___ or Existing ___ Interm/Prod	<u>7 1/2</u>	<u>6780</u>	<u>700</u>	<u>2300 / TS</u>
Planned ___ or Existing ___ Interm/Prod	<u>4"</u>	<u>6770</u>	<u>378</u>	
Planned ___ or Existing ___ Prod/Liner				
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ OH / PERF			<u>Inj Length</u>	Hydrologic Information and AOR Well Summary on Coversheet

Completion/Operation Details: Drilled TD 6740 PBDT 6770 NEW TD 6770 NEW PBDT 6770
NEW Open Hole ☐ or NEW Perfs ☐ Tubing Size 2 3/4 in. Coated? X Prop. Packer Depth 6450 ft Min. Depth 6450 (100-ft limit)
Proposed Max. Surface Press. _____ psi Admin. Inj. Press. _____ (0.2 psi per ft) ANY AREA IPI APPROVAL: _____
Specific Requirement(s) for Well: After run Liner, Run C-B-L Surf

After set packer with 100' of perfs