

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] WFX-951
Apache Corporation (OGRID 873)
West Blinebry Drinkard Unit 10
30-025-06445
Eunice; BLI-TU-DR, North (22900)
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 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] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or;
- [F] Waivers are Attached

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[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

Signature

Consultant

Title

brian@permitswest.com

e-mail Address

1-23-16

Date

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: XXX Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage _____
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: APACHE CORPORATION

ADDRESS: 303 VETERANS AIRPARK LANE, SUITE 3000, MIDLAND, TX 79705

CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes XXX No
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.

WEST BLINEBRY DRINKARD UNIT 10
30-025-06445

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

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

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: BRIAN WOOD TITLE: CONSULTANT

SIGNATURE:  DATE: JANUARY 22, 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.

INJECTION WELL DATA SHEETTubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COATType of Packer: LOCK SET INJECTIONPacker Setting Depth: 6,400'

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

Additional Data1. Is this a new well drilled for injection? _____ Yes XXX NoIf no, for what purpose was the well originally drilled? ABO OIL WELL2. Name of the Injection Formation: DRINKARD3. Name of Field or Pool (if applicable): EUNICE; BLI-TU-DR, NORTH (POOL CODE 22900)

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

NO

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

OVER: GRAYBURG (3,826'), SAN ANDRES (≈4,010'),BLINEBRY (5,602'), & TUBB (6,132')UNDER: ABO (6,765'), FUSSELMAN (7384'), MCKEE (8094'), SIMPSON (8,400')

APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 10
660' FNL & 585' FEL
SEC. 9, T. 21 S., R. 37 E.
LEA COUNTY, NM

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30-025-06445

I. Goal is to change the injection interval of this existing water injection well (fka, Southland Royalty A 7) from its current 5,658' - 6,680' interval to a 6,450' - 6,740' interval. Both intervals are part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900).

The well and zone are part of the West Blinebry Drinkard Unit (Cases 14125 and 14126, both Order Number R-12981) that was established in 2008 by Apache. There have been eight subsequent WFX approvals: WFX-854, WFX-857, WFX-913, WFX-921, WFX-922, WFX-923, WFX-924, and WFX-948. Thirty-four water injectors are now active in the unit.

II. Operator: Apache Corporation (OGRID #873)
Operator phone number: (432) 818-1062
Operator address: 303 Veterans Airpark Lane, Suite 3000
Midland, TX 79705
Contact for Application: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease: fee (Southland Royalty A)
Lease Size: 320 acres (see Exhibit A for maps and C-102)
Closest Lease Line: 585'
Lease Area: E2SE4, SWSE, & SESW Sec. 4, T. 21 S., R. 37 E.
and NE4 Section 9, T. 21 S., R. 37 E.
Unit Size: 2,480 acres Unit Numbers: 300341 & NMNM-120042X
Closest Unit Line: 585'
Unit Area: T. 21 S., R. 37 E.
Section 4: Lot 15, S2SW4, & SE4
Section 8: E2, NENW, & E2SW
Sections 9 & 16: all
Section 17: E2 & E2SW4
Section 21: E2NE4

- A. (2) Surface casing (9-5/8", 32.3#) was set in 1962 in a 12-1/4" hole at 1,331' and cemented with 580 sacks. Eighty sacks circulated to surface.

Intermediate casing (7", 20# & 23#, J-55 & N-80) was set in an 8-3/4" hole at 7,169' and cemented to 2,870' ("pipe inspection log") with 1,550 sacks.

A 5-1/2" liner (15# & 17#, K-55, FL 45) was set in 1987 in a 6-3/4" hole from 6,748' to 8,473. A DV tool was set at 6,830'. Liner was cemented with 710 sacks. Cement circulated.

A 5-1/2" liner (23#, J-55 & N-80) was set in 2000 at 6,689' and cemented with 750 sacks.

A 4-1/2" flush joint liner (11.6#, J-55) will be set at 6,740' and cemented to surface with 189 sacks.

- A. (3) Tubing will be internally plastic coated 2-3/8", J-55, 4.7#. Setting depth will be \approx 6,400'. (Injection interval will be 6,450' to 6,740'.)

- A. (4) A 2-3/8" x 4-1/2" nickel plated Arrow-set packer will be set at \approx 6,400' (\approx 50' above the highest perforation of 6,450').

- B. (1) Injection zone will be the Drinkard carbonates. Zone is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool. Estimated fracture gradient is \approx 0.56 psi per foot.

- B. (2) Injection interval will be 6,450' to 6,740'. The well is a cased hole. Well is currently perforated in the Blinebry, Tubb, and Drinkard.

- B. (3) Well was originally drilled as an Abo oil well. Zones subsequently tested (from top to bottom) include Grayburg, Blinebry, Tubb, Drinkard,

Fusselman, McKee, and Simpson. Only Grayburg, Blinebry, Tubb, and Drinkard produced in this well according to completion reports.

B. (4) Well perforation and isolation history is below.

| DEPTH | NAME | STATUS | WHEN |
|-------------|-----------|-----------------------|------|
| 3826 - 3966 | Grayburg | squeezed w/ 250 sx | 2010 |
| 5658 - 5950 | Blinebry | open | |
| 6118 - 6300 | Tubb | squeezed | 1987 |
| 6478 - 6616 | Drinkard | open except for below | |
| 6596 - 6675 | Drinkard | squeezed w/ 95 sx | 1962 |
| 6740 | Drinkard | CIBP | 2010 |
| 6775 - 7120 | Abo | inactive | |
| 6812 - 7002 | Abo | squeezed | |
| 7315 | | CIBP w/ 35' cmt | |
| 7384 - 7450 | Fusselman | suspended | 1994 |
| 8044 | | CIBP w/ 35' cmt | |
| 8094 - 8363 | McKee | squeezed w/ 150 sx | 1987 |
| 8400 - 8418 | Simpson | suspended | |
| 8482 | TD | | 1962 |

B. (5) Next higher oil or gas zone in the area of review is the Tubb. It produced in this well and its top is at 6,132'. Injection will occur in the Drinkard from 6,450' to 6,740'.

Next lower oil or gas zone in the area of review is the Abo. It was penetrated by this well, but did not produce. Abo top is at 6,765. Abo is producing elsewhere in the area of review (e. g., 30-025-06460).

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 eight water flood expansions since then. Closest unit boundary is 585' east. Seven existing injection wells are within a half-mile radius. Six are in the unit (see Exhibit C).

APACHE CORPORATION
 WEST BLINEBRY DRINKARD UNIT 10
 660' FNL & 585' FEL
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V. Exhibit C shows all 59 existing wells (51 oil or gas wells + 7 water injection wells + 1 P&A well) within a half-mile radius, regardless of depth. Exhibit D shows all 706 existing wells (536 oil or gas wells + 111 injection or disposal wells + 47 P & A wells + 11 water supply wells + 1 brine well) within a two-mile radius.

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. Details on the leases within a half-mile are:

| Aliquot Parts in Area of Review (T21S, R37E) | Lessor(s) | Lease | Lessee(s) of Record | Blinebry, Tubb, &/or Drinkard operator, if any |
|--|-----------|---------------------|---------------------|--|
| NWSW Sec. 3 | fee | Estlack | Apache | Apache |
| S2SW4 Sec. 3 | fee | Livingston | Apache | Apache |
| E2SE4, SWSE, & SESW Sec. 4 | fee | Southland Royalty A | Apache | Apache |
| NWSE Sec. 4 | fee | Gulf Hill | Apache | Apache |
| NE4 Sec. 9 | fee | Southland Royalty A | Apache | Apache |
| E2NW4 & N2SE4 Sec. 9 | BLM | NMNM-090161 | Apache & Chevron | Apache |
| E2NW4 Sec. 10 | BLM | NMNM-002512 | Apache & Chevron | Apache |
| W2NW4 Sec. 10 | NMSLO | B1-1349-0001 | Apache | Apache |
| NWSW Sec. 10 | NMSLO | B0-0935-0000 | ExxonMobil | Apache |

VI. There are 59 existing wells within a half-mile radius. Forty of the wells penetrated the Drinkard (top = 6,450'). The penetrators include 33 oil or gas wells, 6 water injection wells, and 1 P&A well. A table abstracting the well construction details and histories of the penetrators is in Exhibit G. A diagram of the one P&A penetrator is in Exhibit G. The 59 existing wells (+ 5 approved, but not yet drilled, wells) and their distances from the #10 are:

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| API | OPERATOR | WELL | TYPE | UNIT-SECTION | TVD | ZONE | FEET FROM WBDU 10 |
|------------|----------|-------------------------|------|--------------|-----------|----------------------|-------------------|
| 3002541875 | Apache | WBDU 211 | O | A-9 | 6950 | Eunice; Bli-Tu-Dr, N | 744 |
| 3002541877 | Apache | WBDU 215 | O | P-4 | 6950 plan | Eunice; Bli-Tu-Dr, N | 801 |
| 3002538054 | Apache | Southland Royalty A 025 | O | A-9 | 4375 | Penrose Skelly; Gray | 838 |
| 3002539494 | Apache | WBDU 110 | O | P-4 | 6867 | Eunice; Bli-Tu-Dr, N | 839 |
| 3002536367 | Apache | NEDU 419 | O | D-10 | 6900 | Eunice; Bli-Tu-Dr, N | 904 |
| 3002541873 | Apache | WBDU 206 | O | H-9 | 6910 | Eunice; Bli-Tu-Dr, N | 910 |
| 3002536366 | Apache | NEDU 418 | O | D-10 | 6925 | Eunice; Bli-Tu-Dr, N | 947 |
| 3002540363 | Apache | WBDU 111 | O | H-9 | 7199 | Eunice; Bli-Tu-Dr, N | 975 |
| 3002536340 | Apache | WBDU 012 | O | B-9 | 6900 | Eunice; Bli-Tu-Dr, N | 1044 |
| 3002536314 | Apache | WBDU 013 | O | P-4 | 6900 | Eunice; Bli-Tu-Dr, N | 1050 |
| 3002537146 | Breck | State 10'004 | O | D-10 | 5510 | Hare; San Andres, E | 1074 |
| 3002535767 | Apache | Southland Royalty A 012 | O | H-9 | 4200 | Penrose Skelly; Gray | 1170 |
| 3002538416 | Apache | Southland Royalty A 027 | O | B-9 | 4157 | Penrose Skelly; Gray | 1190 |
| 3002506444 | Apache | WBDU 009 | I | H-9 | 7200 | Eunice; Bli-Tu-Dr, N | 1322 |
| 3002506396 | Apache | WBDU 138 | I | P-4 | 4570 | Penrose Skelly; Gray | 1323 |
| 3002537725 | Apache | Livingston 020 | O | M-3 | 4380 | Penrose Skelly; Gray | 1349 |
| 3002540788 | Apache | NEDU 367 | O | D-10 | 7005 | Eunice; Bli-Tu-Dr, N | 1350 |
| 3002506443 | Apache | WBDU 006 | I | B-9 | 6750 | Eunice; Bli-Tu-Dr, N | 1402 |

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| | | | | | | | |
|------------|--------|--------------------------|-----|------|-----------|----------------------|------|
| 3002506459 | Apache | NEDU 401 | O | D-10 | 7500 | Eunice; Bli-Tu-Dr, N | 1470 |
| 3002535766 | Apache | Southland Royalty A 011 | O | B-9 | 4200 | Penrose Skelly; Gray | 1509 |
| 3002541880 | Apache | WBDU 241 | O | P-4 | 6971 | Eunice; Bli-Tu-Dr, N | 1572 |
| 3002506516 | Apache | NEDU 302 | O | M-3 | 6690 | Eunice; Bli-Tu-Dr, N | 1607 |
| 3002541872 | Apache | WBDU 202 | O | G-9 | 6937 | Eunice; Bli-Tu-Dr, N | 1607 |
| 3002506474 | Apache | NEDU 501 | O | L-10 | 5990 | Eunice; Bli-Tu-Dr, N | 1611 |
| 3002506460 | Breck | State 10 001 | O | D-10 | 8285 | Wantz; Abo | 1617 |
| 3002541435 | Apache | Southland Royalty A 002H | O | H-9 | 11232 | Wantz; Abo | 1651 |
| 3002541876 | Apache | WBDU 214 | O | O-4 | 6945 | Eunice; Bli-Tu-Dr, N | 1651 |
| 3002537200 | Apache | WBDU 016 | O | H-9 | 7298 | Eunice; Bli-Tu-Dr, N | 1658 |
| 3002539015 | Apache | Southland Royalty A 028 | O | H-9 | 4400 | Eunice; Bli-Tu-Dr, N | 1671 |
| 3002541870 | Apache | WBDU 197 | O | H-9 | 6950 plan | Eunice; Bli-Tu-Dr, N | 1711 |
| 3002535768 | Apache | Southland Royalty A 013 | O | O-4 | 4200 | Penrose Skelly; Gray | 1720 |
| 3002535514 | Apache | Southland Royalty A 010 | O | G-9 | 4450 | Penrose Skelly; Gray | 1822 |
| 3002542273 | Apache | NEDU 437 | O | D-10 | 7450 plan | Eunice; Bli-Tu-Dr, N | 1848 |
| 3002537030 | Apache | WBDU 014 | O | G-9 | 6900 | Eunice; Bli-Tu-Dr, N | 1856 |
| 3002538134 | Apache | Southland Royalty A 026 | O | O-4 | 4200 | Penrose Skelly; Gray | 1912 |
| 3002506442 | Apache | WBDU 005 | I | G-9 | 7569 | Wantz; Abo | 1922 |
| 3002520069 | Apache | WBDU 011 | P&A | O-4 | 6703 | Eunice; Bli-Tu-Dr, N | 1930 |

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| | | | | | | | |
|------------|--------|------------------|---|------|-----------|----------------------|------|
| 3002536070 | Breck | State 10 002 | O | E-10 | 7505 | Wantz; Abo | 1931 |
| 3002534739 | Apache | NEDU 332 | O | M-3 | 6890 | Eunice; Bli-Tu-Dr, N | 1939 |
| 3002537031 | Apache | WBDU 015 | O | P-4 | 6950 | Eunice; Bli-Tu-Dr, N | 1976 |
| 3002541874 | Apache | WBDU 210 | O | B-9 | 6945 | Eunice; Bli-Tu-Dr, N | 1995 |
| 3002539574 | Apache | WBDU 137 | I | O-4 | 6914 | Eunice; Bli-Tu-Dr, N | 2056 |
| 3002506461 | Apache | NEDU 402 | O | E-10 | 8158 | Eunice; Bli-Tu-Dr, N | 2063 |
| 3002537444 | Apache | NEDU 422 | O | E-10 | 6900 | Eunice; Bli-Tu-Dr, N | 2087 |
| 3002538199 | Apache | WBDU 053 | O | I-9 | 6885 | Eunice; Bli-Tu-Dr, N | 2109 |
| 3002536686 | Apache | Hawk Fed B 1 037 | O | I-9 | 4350 | Penrose Skelly; Gray | 2155 |
| 3002538229 | Apache | WBDU 004 | O | J-4 | 6975 | Eunice; Bli-Tu-Dr, N | 2171 |
| 3002538154 | Apache | NEDU 341 | O | L-3 | 6906 | Eunice; Bli-Tu-Dr, N | 2190 |
| 3002538281 | Apache | WBDU 018 | O | O-4 | 6950 | Eunice; Bli-Tu-Dr, N | 2211 |
| 3002535226 | Apache | Livingston 017 | O | M3 | 4455 | Penrose Skelly; Gray | 2284 |
| 3002536736 | Breck | State 10 003 | O | E-10 | 4384 | Hare; San Andres, E | 2289 |
| 3002542649 | Apache | WBDU 196 | O | G-9 | 7000 plan | Eunice; Bli-Tu-Dr, N | 2301 |
| 3002540787 | Apache | NEDU 366 | O | M-3 | 7000 | Eunice; Bli-Tu-Dr, N | 2308 |
| 3002534661 | Apache | NEDU 415 | O | C-10 | 6870 | Eunice; Bli-Tu-Dr, N | 2406 |
| 3002542261 | Apache | NEDU 369 | O | M-3 | 7450 plan | Eunice; Bli-Tu-Dr, N | 2423 |
| 3002537726 | Apache | Livingston 021 | O | N-3 | 4380 | Penrose Skelly; Gray | 2453 |
| 3002539708 | Apache | WBDU 100 | O | N-4 | 7201 | Eunice; Bli-Tu-Dr, N | 2494 |

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|------------|--------|----------------------------|---|------|------|--------------------------|------|
| 3002535879 | Apache | Hawk Fed B 1 023 | O | C-9 | 4200 | Penrose Skelly; Gray | 2517 |
| 3002540851 | Apache | NEDU 427 | O | E-10 | 6955 | Eunice; Bli- Tu-Dr, N | 2531 |
| 3002506449 | Apache | NEDU 403 | I | C-10 | 6790 | Eunice; Bli- Tu-Dr, N | 2585 |
| 3002541871 | Apache | WBDU 201 | O | G-9 | 6957 | Eunice; Bli- Tu-Dr, N | 2606 |
| 3002537970 | Apache | Southland Royalty A 024 | O | I-4 | 4385 | Eunice; Bli- Tu-Dr, N | 2614 |
| 3002530913 | Apache | NEDU 514 | O | L-10 | 5990 | Eunice; Bli- Tu-Dr, N | 2630 |
| 3002520178 | Apache | WBDU 042 | I | I-9 | 6780 | Eunice; Bli- Tu-Dr, N | 2641 |

- VII. 1. Average injection rate will be $\approx 2,500$ bwpd.
 Maximum injection rate will be $\approx 3,000$ bwpd.
2. System will be closed. The well will be tied into the existing unit pipeline system. The system consists of a branched injection system with centrifugal injection pumps.
3. Average injection pressure will be $\approx 1,100$ psi. Maximum injection pressure will be 1,290 psi ($= 0.2$ psi/ft $\times 6,450'$ (highest perforation)).
4. Water source will be water pumped from two existing $\approx 4,000'$ deep San Andres water supply wells, plus produced water from Blinebry, Tubb, and Drinkard zones. The source water and produced water are collected in separate skim tanks. The two water streams (source and produced) are commingled in a tank before being piped to the injection wells. A comparison of nearby analyses and San Andres follows. No compatibility problems have reported from the 38,670,251 barrels that have been injected to date in the unit since 2009.

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| | 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 |

5. Apache currently has 109 active oil wells, 34 active injection wells, and 11 approved, but not yet drilled, oil 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. Dips are 1° to 2°. The Blinebry/Tubb/Drinkard interval is Leonardian in age, 1163' 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

APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 10
660' FNL & 585' FEL
SEC. 9, T. 21 S., R. 37 E.
LEA COUNTY, NM

PAGE 10

30-025-06445

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:

Quaternary = 0'
Anhydrite = 1,263'
Top salt = 1,362'
Bottom salt = 2,614'
Grayburg = 3,826'
Glorieta = 5,206'
Blinebry = 5,602'
injection interval = 5,658' - 6,740'
Tubb = 6,132'
Drinkard = 6,450'
Abo = 6,765'
PBDT = 8,009'
Simpson = 8,094'
TD = 8,473'

There are 4 water wells within a 1-mile radius according to the State Engineer (Exhibit H). Deepest is 120'. Two are dry and two were sampled. Their analyses are in Exhibit I. Ogallala is >5 miles northeast.

No existing underground drinking water sources are below the injection interval within a mile radius.

There will be 4,395' of vertical separation and 1,351' of salt and anhydrite between the bottom of the only likely underground fresh water source (red beds) and the top of the injection interval. 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 well will be stimulated with acid.

APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 10
660' FNL & 585' FEL
SEC. 9, T. 21 S., R. 37 E.
LEA COUNTY, NM

PAGE 11

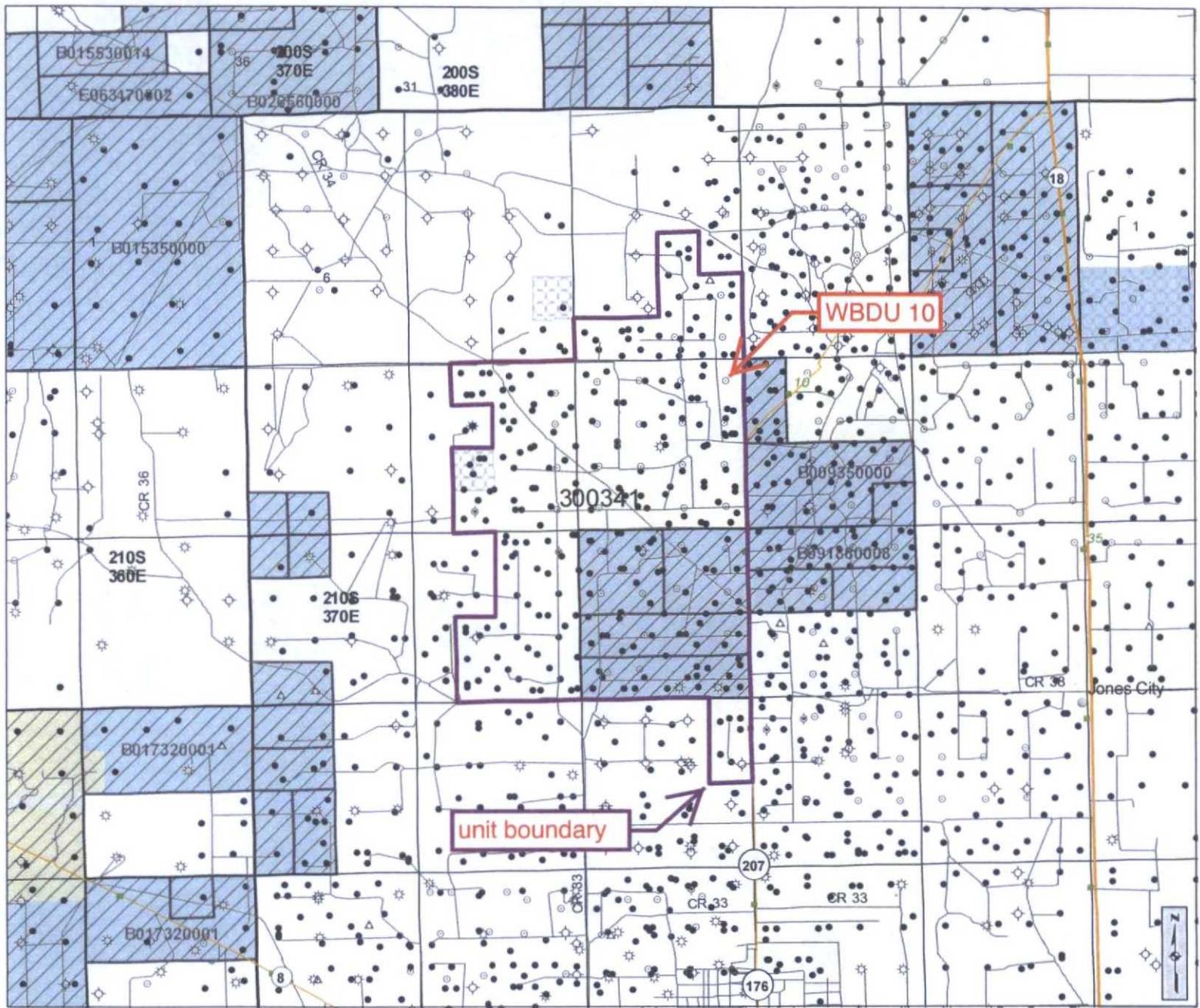
30-025-06445

X. Gama ray neutron, spectral density dual spaced neutron, and dual laterolog microguard logs were run and are on file with NMOCD.

XI. Two fresh water wells are within a mile. Analyses from those wells are attached as Exhibit I.

XII. Apache (Exhibit J) 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 active Drinkard injection wells in New Mexico. Previously approved water flood expansions (WFX-) in the unit include 854, 857, 913, 921, 922, 923, 924, and 948.

XIII. A legal ad (see Exhibit K) was published January 13, 2016. Notice (this application) has been sent (Exhibit L) to the surface owner (Millard Deck Estate), offset Drinkard operators (only Apache), other lessees or leasehold operating rights holders (BLM, Chevron USA, ConocoPhillips, Devon Energy Production Co. LP, Energen Resources Co., ExxonMobil, John H. Hendrix Corp., Kerr-McGee OG Onshore LP, NM State Land Office, Oxy USA WTP LP, Penroc Oil Corp., Petro Strategies Inc., and St. Croix Corp.), and non-Drinkard operators (Breck, Vanguard) in the area of review.



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- Oil and Gas Related Features**
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 - Geologic Regions
 - Volcanic Vents
 - NMOC D Order R-111-P
 - Potash Enclave Outline
- NMOC D Oil and Gas Wells**
- CO₂
 - Gas
 - Injection
 - Miscellaneous
 - Oil
 - Salt Water Disposal
 - Water
 - DA or PA

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

0 0.2 0.4 0.8 1.2 1.6 Miles
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 1983 North American Datum

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EXHIBIT A



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- Cartographic Features**
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**New Mexico State Land Office
Oil, Gas and Minerals**

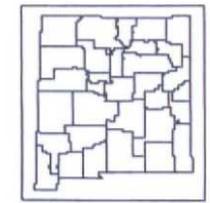
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 Universal Transverse Mercator Projection, Zone 13
 1983 North American Datum

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EXHIBIT A

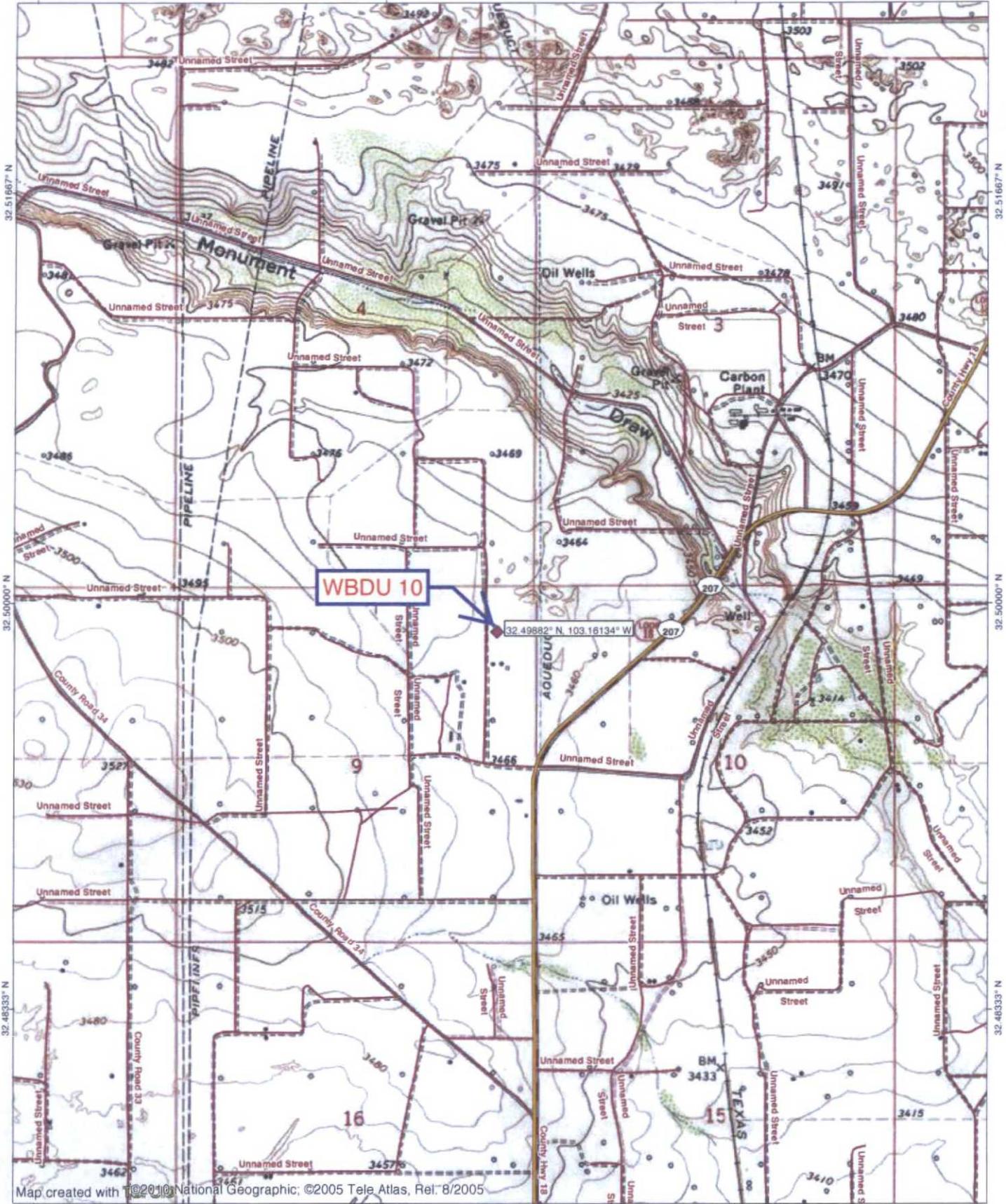


www.nmstatelands.org

103.18333° W

103.16667° W

WGS84 103.15000° W



32.51667° N

32.50000° N

32.48333° N

32.51667° N

32.50000° N

32.48333° N

Map created with ©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005

103.18333° W

103.16667° W

WGS84 103.15000° W

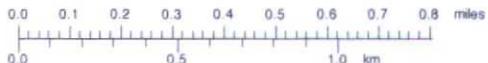


EXHIBIT A



NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-126
Revised 3/1/57

WELL LOCATION AND ACREAGE DEDICATION PLAT

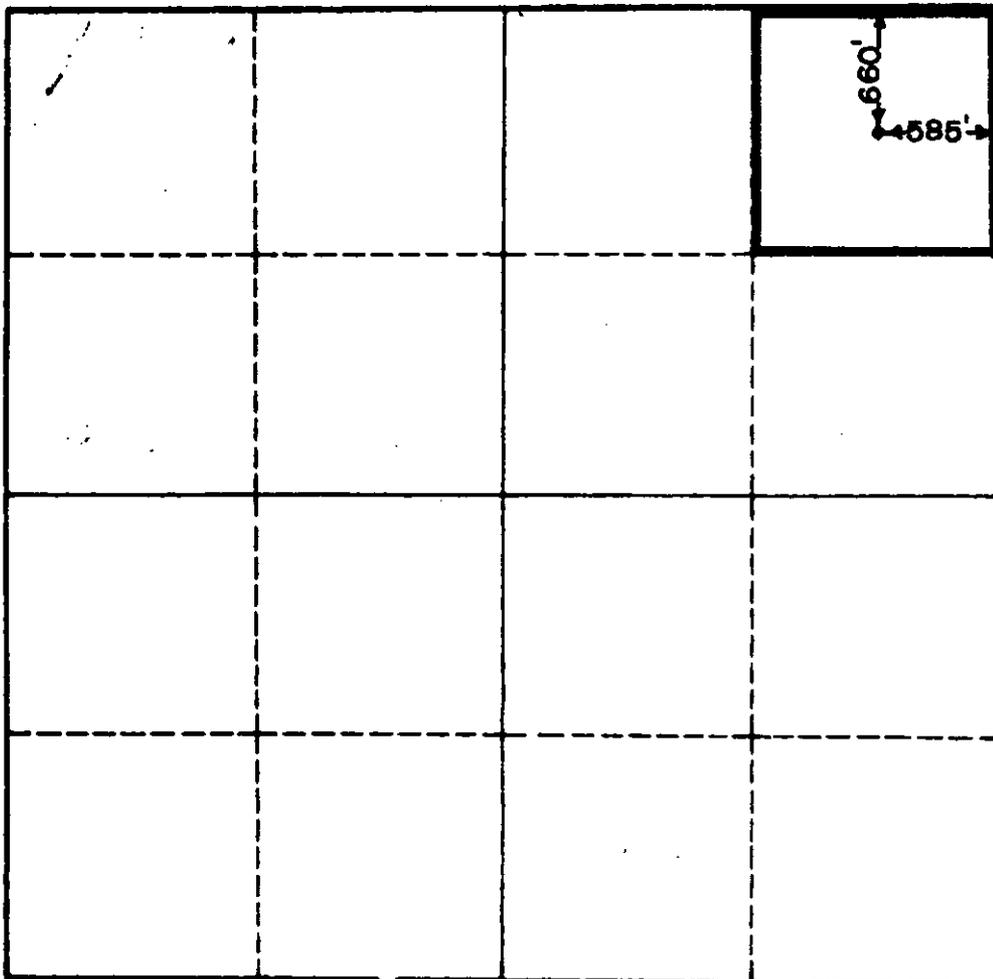
SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

| | | | | |
|--|-----------------------------------|-----------------------------------|---------------------------------------|-------------------------|
| Operator Pan American Pet. Corp. | | SECTION 1962 MAY 4 PM 2:48 | | Well No. 7 |
| Lease Southland Royalty "A" | Unit Letter A | Section 9 | Township 21 South | Range 37 East |
| Actual Footage Location of Well: 660 feet from the North line and 585 feet from the East line | | County Lea | | |
| Ground Level Elev. N/A | Producing Formation Abo | Pool Wanta-Abo | 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 1953 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 Original Signed by:
Y. R. STAL

Position
Area Superintendent

Company
Pan American Petroleum Corp.

Date
May 4, 1962

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
4-24-62

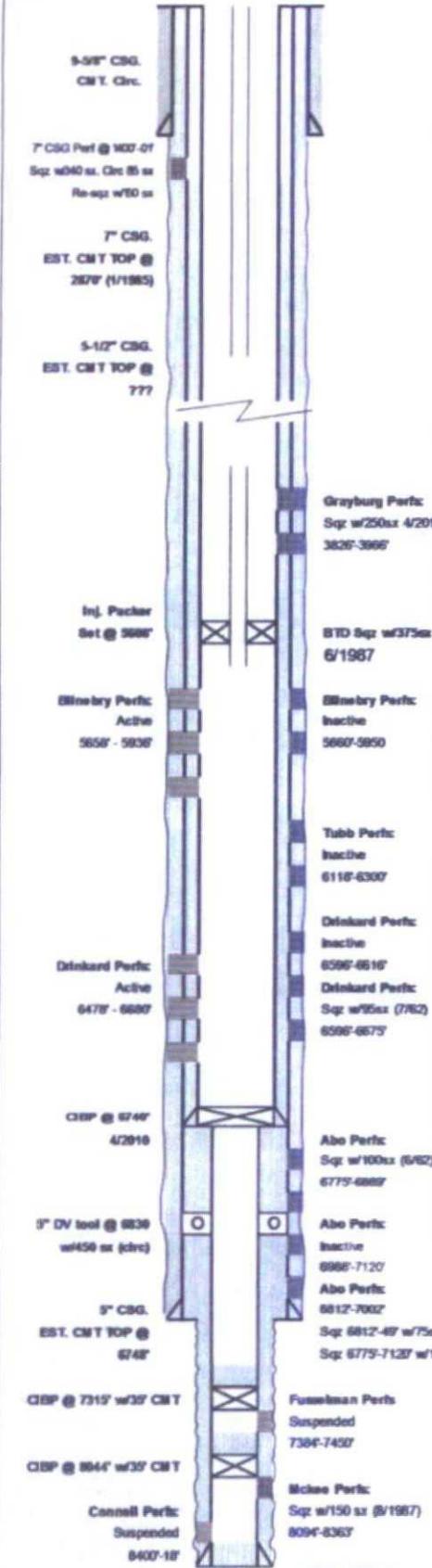
Registered Professional Engineer and/or Land Surveyor, **JOHN W. WEST**

Certificate No. **EXHIBIT A**

N. M. - P. E. & L. S. NO. 676

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

Apache Corporation
WBDU #10W (Southland Royalty A #7)
WELL DIAGRAM (CURRENT CONFIGURATION)



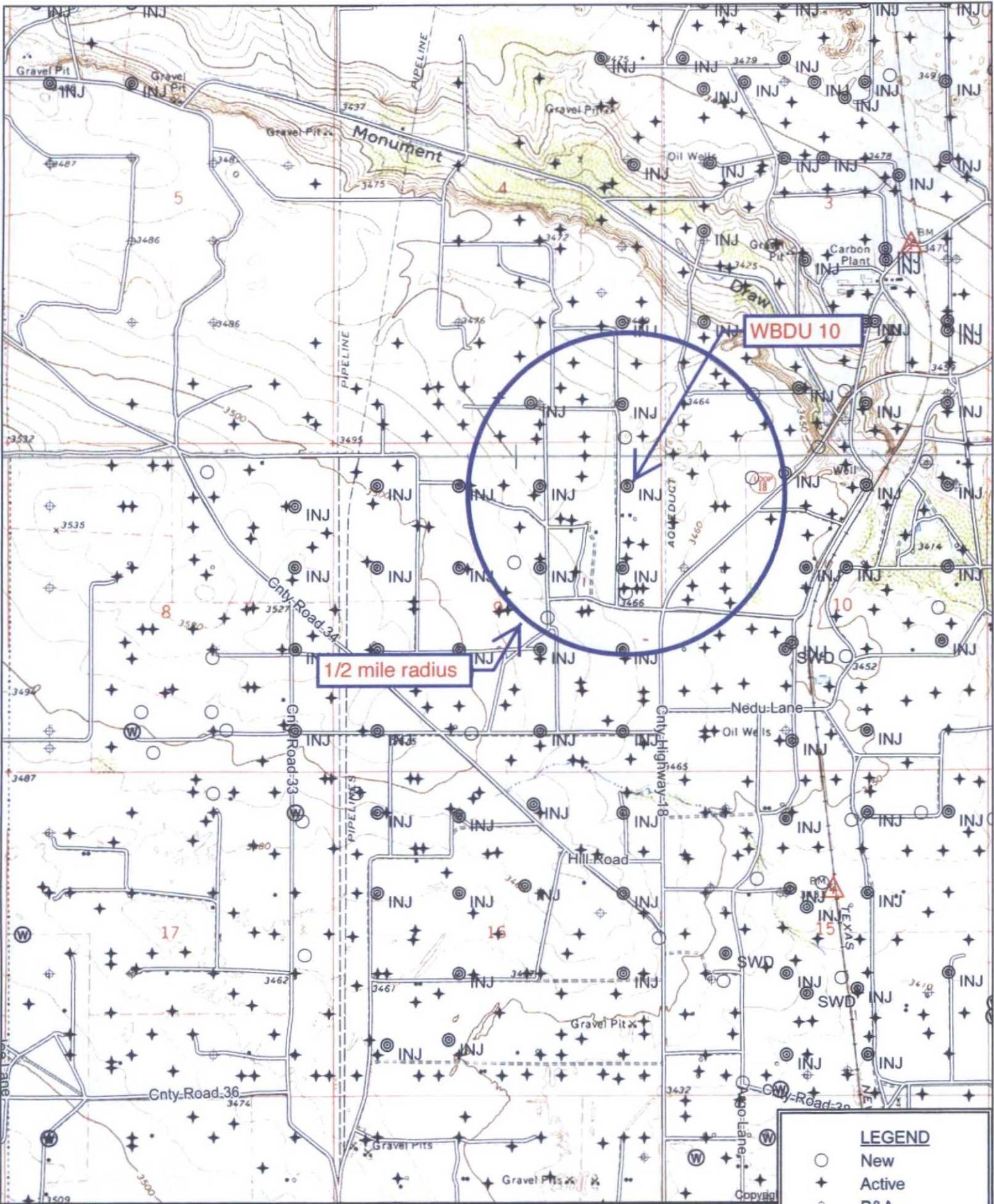
| | | | | | |
|----------------------|---|--------------------------|--------------------|--------------------------|----------|
| WELL NAME: | WBDU #10W (Southland Royalty A #7) | | API: | 30-025-06445 | |
| LOCATION: | 660' FNL, 585' FEL, Sec 9, T-21S, R-37E | | COUNTY: | Lea Co., NM | |
| SPUD/TD DATE: | 5/8/1962 - 5/28/1962 | | COMP. DATE: | 8/30/1962 | |
| PREPARED BY: | Bret Shapoff | | DATE: | 12/22/2015 | |
| TD (ft): | 8,482.0 | KB Elev. (ft): | 3488.0 | KB to Ground (ft) | 12.0 |
| PSTD (ft): | 6,740.0 | Ground Elev. (ft) | 3488.0 | | |
| CASING/TUBING | SIZE (IN) | WEIGHT (LB/FT) | GRADE | DEPTHS (FT) | |
| Surface Casing | 9-5/8" (Cnt. w/ 590sx., Ctc.) | 32.30 | H-40 | 0.00 | 1,331.00 |
| Int. Casing | 7" (Cnt. w/ 1550sx. Ctc.) | 20 / 23 | J-55 N-80 | 0.00 | 7,169.00 |
| Liner 1 7/1967 | 5" (Cnt. w/ 260 sx. Ctc) DV tool @ 6837', 450 sx ctc | 14.87 | K-55 FL 45 | 6,748.00 | 8,473.00 |
| Liner 2 10/2000 ? | 5-1/2" (Cnt. w/ 750 sx) | 23.00 | J-55 N-80 | 0.00 | 6,889.00 |

| INJECTION TBG STRING | | | | |
|----------------------|------------------------------------|-------------|----------|--|
| ITEM | DESCRIPTION | LENGTH (FT) | Btm (FT) | |
| 1 | 177 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 | |
| Grayburg | (Squeezed) 3826'-44', 52'-64', 72'-78', 90'-98', 3910'-30', 3956'-66' | | 4 | |
| | 5858'-70', 5724'-28', 32'-44', 54'-60', 67'-71', 5777', 83', 90', 97', 5800'-04', 08'-12', 26'-30', 37', 40', 48', 62', 68'-70', 84'-90', 5600', 10'-12', 15'-18', 27'-30' | | 2 | |
| Blinebry | (Inactive) 5819'-21', 30'-32', 40'-42', 62'-64', 71'-73', 86'-88', 5800-02', 10'-12', 34'-36', 48'-50' | | 2 | |
| | (Inactive) 5860'-79', 5724'-26', 29', 33'-37', 41'-47', 56'-61' | | 2 | |
| Tubb | (Squeezed) 6118'-28', 36'-50', 6238'-48', 63'-72', 96'-6300' | | 4 | |
| | 6478'-82', 6520'-24', 6562'-6600', 6603'-06', 11'-16', 29'-31', 37'-41', 54'-56', 66'-72', 77'-80' | | 2 | |
| Drinkard | (Inactive) 6478'-84', 6518'-30' | | 4 | |
| | (Sgz w/95sx 7/1962) 6596'-6616', 36'-42', 53'-58', 67'-75' | | 2 | |
| | (Inactive) 6596' - 6616' | | 2 | |
| Abo | (Inactive) 6968'-97', 7038'-44', 60'-65', 7115'-20' | | 2 | |
| Abo | (Inactive) 6775'-79', 6813'-18', 39'-49', 83'-89' | | 2 | |
| Abo | (Squeezed) 6812'-18', 26'-33', 39'-49', 83'-8910', 6668'-7002' | | 4 | |
| Fussell | (Suspended) 7384' - 7422', 7430' - 50' | | 4 | |
| | (Squeezed) 8236'-42', 50'-60', 80'-83', 8300'-04', 42'-46', 56'-63' | | 4 | |
| McKee | (Squeezed) 8094'-8100', 8112'-25', 30'-36', 42'-50', 56'-60', 64'-68', 72'-80', 94'-8210' | | 4 | |
| Connell | (Suspended) 8400'-18' | | 4 | |

PSTD: 6,740.0
TD: 8,482.0

EXHIBIT B



WBDU 10

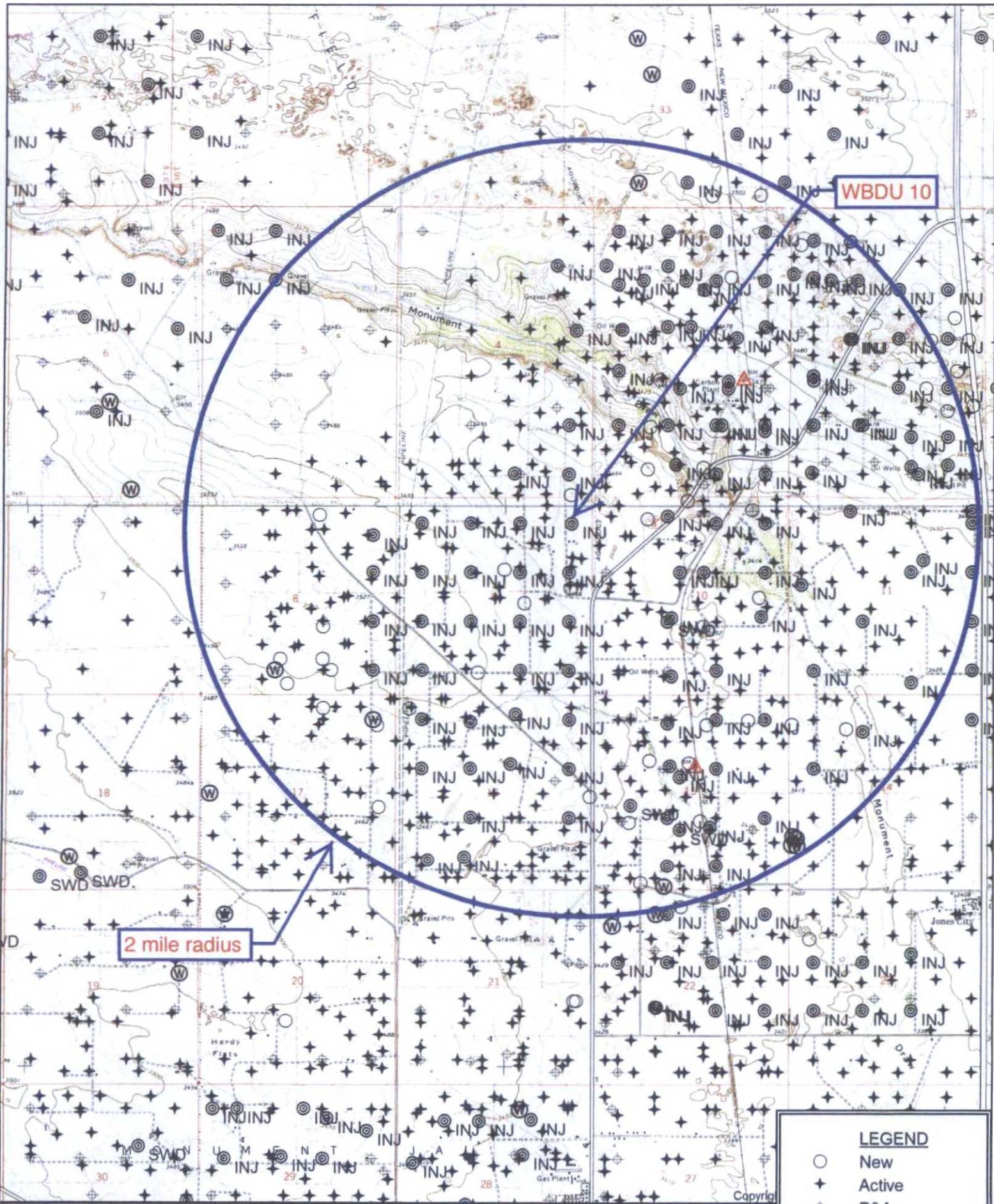
1/2 mile radius

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

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

EXHIBIT C





WBDU 10

2 mile radius

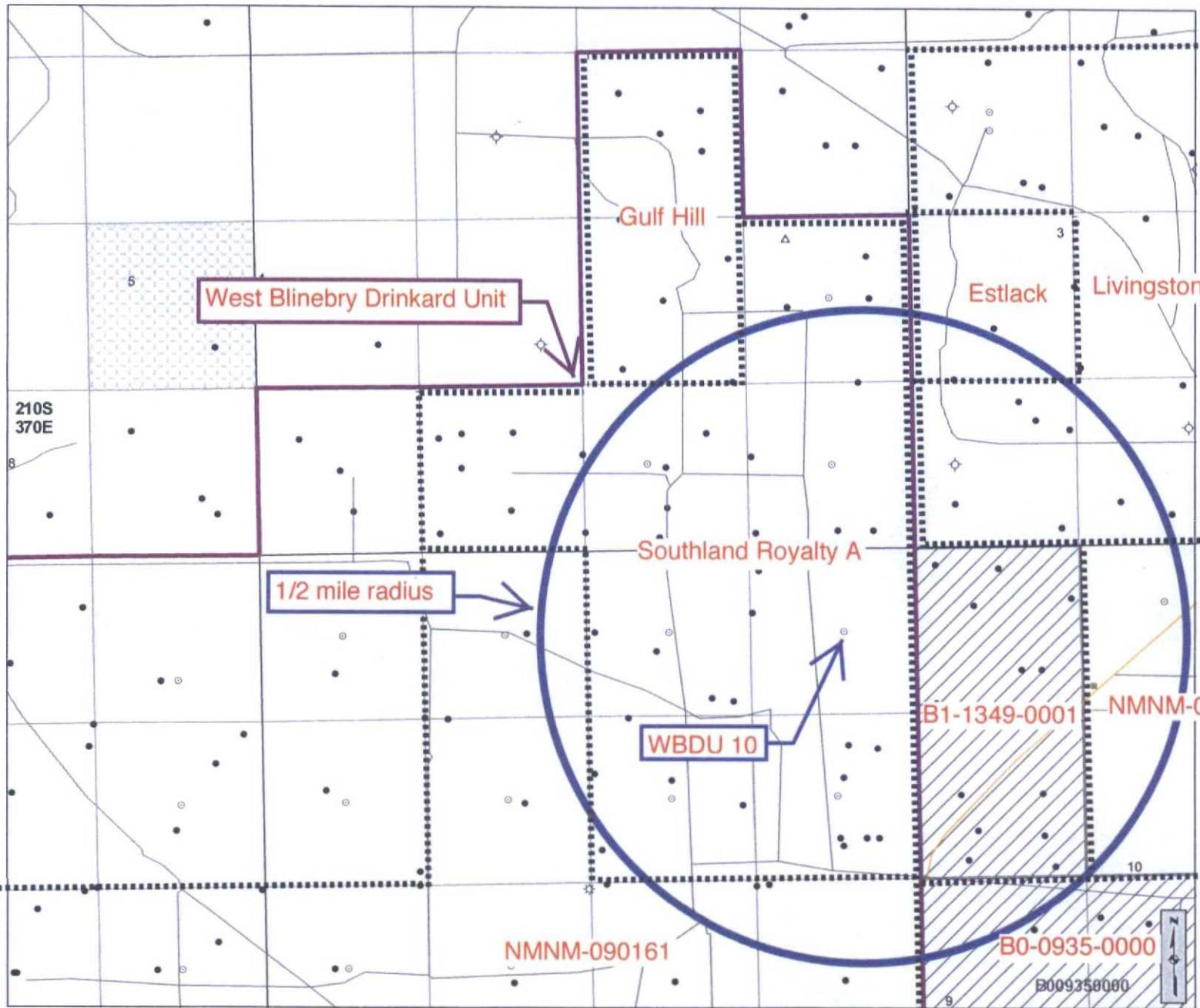
| LEGEND | |
|--------|--------|
| ○ | New |
| + | Active |
| ⊕ | P&A |
| ⊙ | INJ |
| ⊗ | SWD |
| ⊝ | Water |



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

EXHIBIT D

Copyright



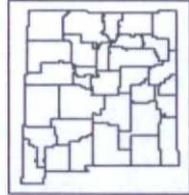
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 - Water
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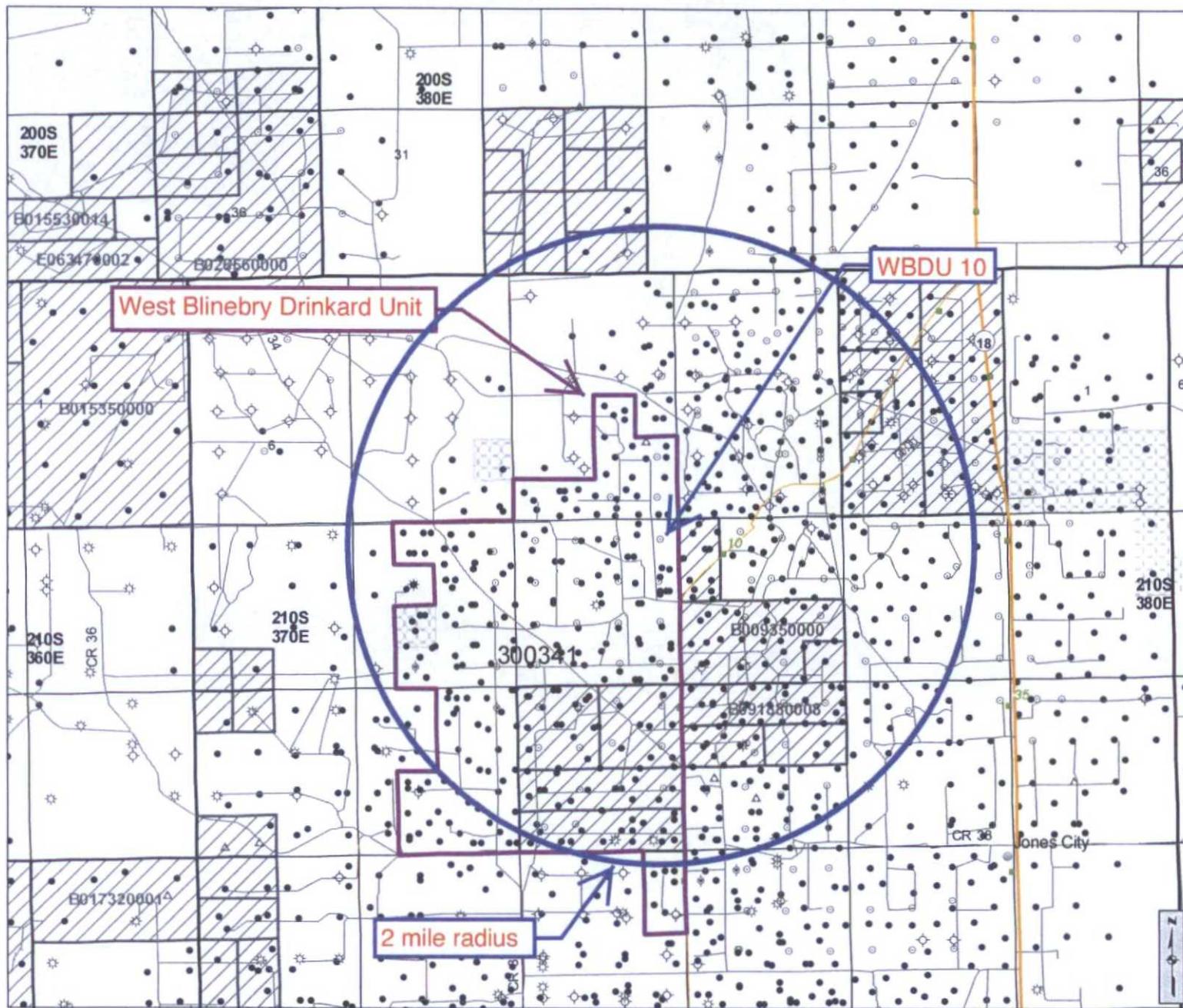
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EXHIBIT E



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Cartographic Features

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NMOC D Oil and Gas Wells

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Oil, Gas and Minerals**

0 0.2 0.4 0.8 1.2 1.6 Miles
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EXHIBIT F



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Sorted by distance from WBDU 10

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
|--------------|------------|--------------|--------------------------|-----------|-----------|-------------|-------|---------|---------|----------------|
| WBDU 211 | 09/02/2014 | 6950 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1320 | 450 sx | surface | circ. 99 sx |
| 30-025-41875 | | | | | 7.875 | 5.5 | 6950 | 1200 sx | surface | circ. 125 sx |
| A-9-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 215 | N/A | Prop at 6950 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1320 | 450 sx | surface | N/A |
| 30-025-41877 | | | | | 7.875 | 5.5 | 6950 | 900 sx | surface | N/A |
| P-4-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 110 | 10/07/2009 | 6867 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1293 | 650 sx | surface | circulated |
| 30-025-39494 | | | | | 7.875 | 5.5 | 6867 | 1000 sx | surface | circulated |
| P-4-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| NEDU 419 | 10/12/2003 | 6900 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1327 | 600 sx | surface | circ. 155 sx |
| 30-025-36367 | | | | | 7.875 | 5.5 | 6900 | 1250 sx | 90 | CBL |
| D-10-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 206 | 10/15/2014 | 6910 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1333 | 450 sx | surface | circ. 64 sx |
| 30-025-41873 | | | | | 7.875 | 5.5 | 6930 | 1450 sx | surface | circ. 210 sx |
| H-9-21S-37E | | | | | | | | | | |

Sorted by distance from WBDU 10

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
|--------------|------------|------|--------------------------|-----------|-----------|-------------|-------|---------|---------|----------------|
| NEDU 418 | 09/29/2003 | 6925 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1330 | 600 sx | surface | circ. 125 sx |
| 30-025-36366 | | | | | 7.875 | 5.5 | 6925 | 1250 sx | 80 | CBL |
| D-10-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 111 | 02/04/2012 | 7199 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1345 | 675 sx | surface | circ. 234 sx |
| 30-025-40363 | | | | | 7.875 | 5.5 | 7215 | 980 sx | 1880 | estimate |
| H-9-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 012 | 09/03/2003 | 6900 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1285 | 600 sx | surface | circ. 237 sx |
| 30-025-36340 | | | | | 7.875 | 5.5 | 6900 | 1275 sx | 50 | CBL |
| B-9-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 013 | 08/08/2003 | 6900 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1286 | 700 sx | surface | circ. 186 sx |
| 30-025-36314 | | | | | 7.875 | 5.5 | 6900 | 1100 sx | 1050 | CBL |
| X-4-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 009 | 05/23/1953 | 7200 | Eunice; Bli-Tu-Dr, North | I | 17.5 | 13.725 | 252 | 275 sx | surface | circulated |
| 30-025-06444 | | | | | 12.25 | 9 | 2856 | 1380 sx | 820 | temp survey |
| H-9-21S-37E | | | | | 7.875 | 5.5 | 6892 | 280 sx | 5325 | temp survey |

Sorted by distance from WBDU 10

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
|--------------|------------|------|--------------------------|-----------|-----------|-------------|-------|---------|---------|----------------|
| NEDU 367 | 11/08/2012 | 7005 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1320 | 475 sx | surface | circ. 100 sx |
| 30-025-40788 | | | | | 7.875 | 5.5 | 7005 | 450 sx | 1470 | estimated |
| D-10-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 006 | 10/12/1962 | 6750 | Eunice; Bli-Tu-Dr, North | I | 17 | 13.725 | 225 | 150 sx | surface | circulated |
| 30-025-06443 | | | | | 12.25 | 9.625 | 1408 | 700 sx | surface | circulated |
| B-9-21S-37E | | | | | 8.75 | 7 | 6694 | 3000 sx | 4525 | temp survey |
| | | | | | | | | | | |
| NEDU 401 | 05/18/1953 | 7500 | Eunice; Bli-Tu-Dr, North | O | no report | 13.725 | 240 | 250 sx | surface | circulated |
| 30-025-06459 | | | | | no report | 9.625 | 3150 | 1612 sx | surface | circulated |
| D-10-21S-37E | | | | | no report | 7 | 7499 | 835 sx | surface | circulated |
| | | | | | | | | | | |
| WBDU 241 | 09/11/2014 | 6971 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1305 | 450 sx | surface | circ. 112 sx |
| 30-025-41880 | | | | | 7.875 | 5.5 | 6971 | 1550 sx | surface | circ. 125 sx |
| P-4-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| NEDU 302 | 01/18/1952 | 6690 | Eunice; Bli-Tu-Dr, North | O | 17.25 | 13.725 | 218 | 250 sx | surface | circ. 35 sx |
| 30-025-06516 | | | | | 11 | 8.625 | 3152 | 2640 sx | surface | circulated |
| U-3-21S-37E | | | | | | 5.5 | 6639 | 400 sx | 2964 | TOL |

Sorted by distance from WBDU 10

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
|------------------------|------------|----------|--------------------------|-----------|-----------|-------------|-------|---------|---------|----------------|
| WBDU 202 | 08/25/2014 | 6937 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1331 | 450 sx | surface | circ. 103 sx |
| 30-025-41872 | | | | | 7.875 | 5.5 | 6939 | 1300 sx | surface | circ. 140 sx |
| G-9-21S-37E | | | | | | | | | | |
| State 10 001 | <Null> | 8285 | Wantz; Abo | O | 17.5 | 13.725 | 235 | 250 sx | surface | circulated |
| 30-025-06460 | | | | | 12.75 | 9.625 | 3128 | 1308 sx | 1200 | temp survey |
| D-10-21S-37E | | | | | | 7 | 8279 | 1330 sx | 3060 | temp survey |
| Southland Royalty A 2H | 11/28/2013 | 11232 | Wantz; Abo | O | 17.5 | 13.375 | 1304 | 1085 sx | surface | circ. 96 sx |
| 30-025-41435 | | 6926 TVD | | | 11 | 8.625 | 6204 | 1225 sx | surface | circulated |
| H-9-21S-37E | | | | | 7.875 | 5.5 | 11229 | 1300 sx | surface | circ. 73 sx |
| WBDU 214 | 09/24/2014 | 6945 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1340 | 450 sx | surface | circ. 106 sx |
| 30-025-41876 | | | | | 7.875 | 5.5 | 6945 | 1300 sx | surface | circ. 168 sx |
| O-4-21S-37E | | | | | | | | | | |
| WBDU 016 | 06/07/2005 | 7298 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1282 | 625 sx | surface | circ. 149 sx |
| 30-025-37200 | | | | | 7.875 | 5.5 | 7298 | 1450 sx | 110 | CBL |
| H-9-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |

Sorted by distance from WBDU 10

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
|--------------|------------|--------------|--------------------------|-----------|-----------|-------------|-------|---------|---------|----------------|
| WBDU 197 | N/A | Prop at 6950 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1320 | 450 sx | surface | N/A |
| 30-025-41870 | | | | | 7.875 | 5.5 | 6950 | 900 sx | surface | N/A |
| H-9-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| NEDU 437 | N/A | Prop at 7450 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1296 | 475 sx | surface | N/A |
| 30-025-42273 | | | | | 7.875 | 5.5 | 7450 | 1250 sx | surface | N/A |
| D-10-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 014 | 02/16/2005 | 6900 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1216 | 575 sx | surface | circ. 116 sx |
| 30-025-37030 | | | | | 7.875 | 5.5 | 6900 | 1100 sx | 250 | CBL |
| G-9-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 005 | 07/07/1947 | 7569 | Wantz; Abo | I | 17.5 | 13.725 | 237 | 225 sx | surface | circulated |
| 30-025-06442 | | | | | 12 | 9.625 | 3860 | 1500 sx | 2050 | estimate |
| G-9-21S-37E | | | | | 8.75 | 7 | 6684 | 600 sx | 5175 | temp survey |
| | | | | | | 4.5 | 7000 | 144 sx | 6385 | TOL |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Sorted by distance from WBDU 10

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
|--------------|------------|------|--------------------------|-----------|-----------|-------------|-------|---------|-----------|----------------|
| WBDU 011 | 12/12/1962 | 6703 | Eunice; Bli-Tu-Dr, North | P&A | 12.25 | 9.625 | 1347 | 580 sx | surface | circulated |
| 30-025-20069 | | | | | 8.75 | 7 | 6703 | 500 sx | 2450 | no report |
| W-4-21S-37E | | | | | | | | | | |
| State 10 002 | 01/18/2003 | 7505 | Wantz; Abo | O | 12.25 | 8.625 | 1350 | 600 sx | no report | no report |
| 30-025-36070 | | | | | 7.875 | 5.5 | 7500 | 1850 sx | 2240 | CBL |
| E-10-21S-37E | | | | | | | | | | |
| NEDU 332 | 02/16/2000 | 6890 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1305 | 460 sx | surface | circ. 95 sx |
| 30-025-34739 | | | | | 7.875 | 5.5 | 6890 | 1425 sx | surface | circ. 115 sx |
| U-3-21S-37E | | | | | | | | | | |
| WBDU 015 | 03/04/2005 | 6950 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1172 | 575 sx | surface | circ. 156 sx |
| 30-025-37031 | | | | | 7.875 | 5.5 | 6950 | 1150 sx | 188 | CBL |
| P-4-21S-37E | | | | | | | | | | |
| WBDU 210 | 10/03/2014 | 6945 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1304 | 450 sx | surface | circ. 128 sx |
| 30-025-41874 | | | | | 7.875 | 5.5 | 6945 | 1350 sx | 235 | CBL |
| B-9-21S-37E | | | | | | | | | | |

Sorted by distance from WBDU 10

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
|--------------|------------|------|--------------------------|-----------|-----------|-------------|-------|---------|---------|----------------|
| WBDU 137 | 01/09/2010 | 6914 | Eunice; Bli-Tu-Dr, North | I | 12.25 | 8.625 | 1307 | 650 sx | surface | circulated |
| 30-025-39574 | | | | | 7.875 | 5.5 | 6914 | 1050 sx | surface | circulated |
| W-4-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| NEDU 402 | 02/25/1953 | 8158 | Eunice; Bli-Tu-Dr, North | O | 13.375 | 10.75 | 257 | 250 sx | surface | circulated |
| 30-025-06461 | | | | | 9.625 | 7.625 | 3128 | 1310 sx | 1360 | circulated |
| E-10-21S-37E | | | | | 7 | 5.5 | 7669 | 450 sx | 3180 | no report |
| | | | | | | | | | | |
| NEDU 422 | 10/04/2005 | 6900 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1267 | 575 sx | surface | circ. 98 sx |
| 30-025-37444 | | | | | 7.875 | 5.5 | 6900 | 1400 sx | 250 | CBL |
| E-10-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 053 | 02/16/2007 | 6885 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1300 | 600 sx | surface | circulated |
| 30-025-38199 | | | | | 7.875 | 5.5 | 6885 | 1100 sx | 170 | CBL |
| I-9-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 004 | 02/08/2007 | 6975 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1222 | 600 sx | surface | circulated |
| 30-025-38229 | | | | | 7.875 | 5.5 | 6975 | 1200 sx | 153 | CBL |
| R-4-21S-37E | | | | | | | | | | |

Sorted by distance from WBDU 10

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
|--------------|------------|--------------|--------------------------|-----------|-----------|-------------|-------|---------|---------|----------------|
| NEDU 341 | 06/04/2007 | 6906 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1329 | 575 sx | surface | circulated |
| 30-025-38154 | | | | | 7.875 | 5.5 | 6906 | 1400 sx | 128 | CBL |
| L-3-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 018 | 03/29/2007 | 6950 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1282 | 575 sx | surface | circulated |
| 30-025-38281 | | | | | 7.875 | 5.5 | 6950 | 1050 sx | surface | CBL |
| W-4-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 196 | N/A | Prop at 7000 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1300 | 715 | surface | N/A |
| 30-025-42649 | | | | | 7.875 | 5.5 | 7000 | 950 | surface | N/A |
| G-9-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| NEDU 366 | 10/24/2012 | 7000 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1302 | 500 sx | surface | circulated |
| 30-025-40787 | | | | | 7.875 | 5.5 | 7000 | 1205 sx | 200 | CBL |
| M-3-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| NEDU 415 | 09/12/1999 | 6870 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1365 | 460 sx | surface | circ. 65 sx |
| 30-025-34661 | | | | | 7.875 | 5.5 | 6870 | 1500 sx | surface | circ. 125 sx |
| C-10-21S-37E | | | | | | | | | | |

Sorted by distance from WBDU 10

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
|--------------|------------|--------------|--------------------------|-----------|-----------|-------------|-------|---------|---------|----------------|
| NEDU 369 | N/A | Prop at 7450 | N/A | O | N/A | N/A | N/A | N/A | N/A | N/A |
| 30-025-42261 | | | | | | | | | | |
| M-3-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 100 | 04/17/2010 | 7201 | Eunice; Bli-Tu-Dr, North | O | 12.25 | 8.625 | 1260 | 650 sx | surface | circulated |
| 30-025-39708 | | | | | 7.875 | 5.5 | 7201 | 1050 sx | surface | circulated |
| V-4-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| NEDU 427 | 03/10/2013 | 6955 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1299 | 485 sx | surface | circ. 145 sx |
| 30-025-40851 | | | | | 7.875 | 5.5 | 6955 | 1025 sx | 458 | no report |
| E-10-21S-37E | | | | | | | | | | |
| | | | | | | | | | | |
| NEDU 403 | 04/30/1962 | 6790 | Eunice; Bli-Tu-Dr, North | I | no report | 13.725 | 337 | 300 sx | surface | circulated |
| 30-025-06449 | | | | | no report | 8.625 | 3000 | 300 sx | 1900 | temp survey |
| C-10-21S-37E | | | | | no report | 5.5 | 6485 | 505 sx | 3150 | temp survey |
| | | | | | | | | | | |
| WBDU 201 | 08/14/2014 | 6957 | Eunice; Bli-Tu-Dr, North | O | 11 | 8.625 | 1337 | 450 sx | surface | circ. 74 sx |
| 30-025-41871 | | | | | 7.875 | 5.5 | 6957 | 1330 sx | surface | circ. 250 sx |
| G-9-21S-37E | | | | | | | | | | |

Sorted by distance from WBDU 10

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
|--------------|------------|------|-----------------------------|-----------|-----------|-------------|-------|--------|---------|----------------|
| | | | | | | | | | | |
| WBDU 042 | 04/13/1963 | 6780 | Eunice; Bli-Tu-Dr, North | I | no report | 9.625 | 1294 | 450 sx | surface | circulated |
| 30-025-20178 | | | | | no report | 5.5 | 6780 | 700 sx | 2300 | temp survey |
| I-9-21S-37E | | | | | | | | | | |

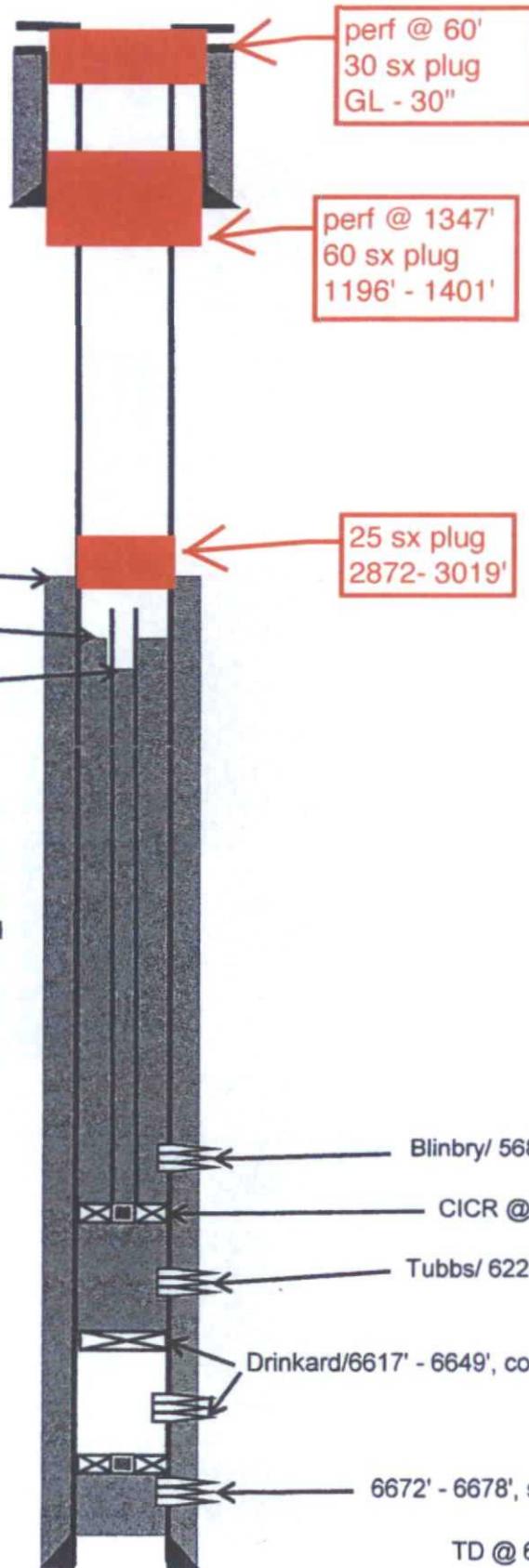


Current WB Dia.

| | |
|------------|-------------------------------|
| LEASE NAME | WBDU (Southland Royalty A-#8) |
| WELL # | 11 |
| API # | 30-025-20069 |
| COUNTY | Lea, NM |

4-21s-37e
spud 12-12-62
P&A 11-14-09

9 5/8" 32#, @ 1347' w/580 sx cmt,
Circ to surf.



perf @ 60'
30 sx plug
GL - 30"

perf @ 1347'
60 sx plug
1196' - 1401'

25 sx plug
2872- 3019'

TOC @ 2972'

TOC inside csg/outside tbg @ 3050'

TOC inside tbg @ 3565'

10/15/09- RIH w/CICR & set @ 6179', EIR 3 bpm @ 1450# psi, pmpd 250 sx cmt w/ additives @ 3 bpm/150# psi, pmpd 250 sx Class "C" neat @ 3 bpm @ 100# psi, well on vac. Over displaced cmt w/ 60 bbls wtr @ 3 bpm, 600# psi. SD 4 hrs, EIR 1 bpm @ 1500# psi, pmpd 194 of LCM cmt @ 1.5 bpm @ 1750# psi, displaced cmt w/ 21.5 bbls wtr @ 1 bpm @ 2000# psi. Could not sting out of CICR, loaded backside w/ 50 bbls wtr. Tbg and CICR stuck in hole.

10-16-09- RU WL/ tag cmt inside 2 3/8" tbg @ 3565'. Ran free point on tbg, free @ 3025' and stuck @ 3050', chem cut tbg @ 3019'.

Blinbry/ 5688'-5784'

CICR @ 6179'

Tubbs/ 6229' - 6327'

Drinkard/6617' - 6649', covered w/ CIBP @ 6373'

6672' - 6678', sqz w/ 30 sx

7", 20/23# @ 6703' w/ 500 sx cmt
TOC @ 2972'

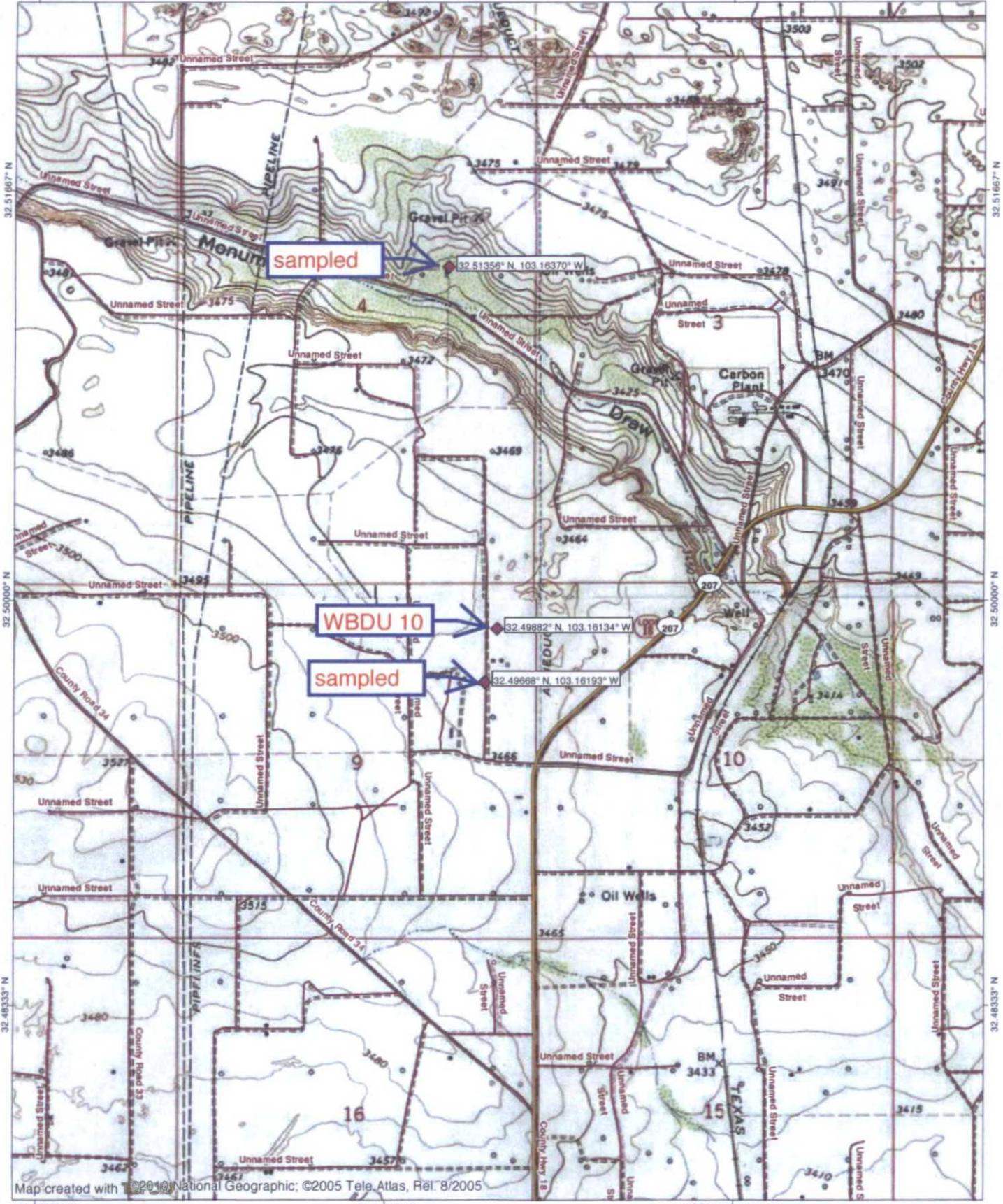
TD @ 6703'

EXHIBIT G

103.18333° W

103.16667° W

WGS84 103.15000° W



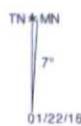
103.18333° W

103.16667° W

WGS84 103.15000° W



EXHIBIT H





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

| POD Number | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Distance | Depth Well | Depth Water Column | Water |
|---------------|--------------|-------|--------|------|------|-----|-----|-----|--------|----------|----------|----------|------------|--------------------|-------|
| CP 00162 | | | LE | 1 | 4 | 2 | 09 | 21S | 37E | 672621 | 3596915* | 324 | 120 | | |
| CP 00163 | | | LE | 1 | 4 | 2 | 09 | 21S | 37E | 672621 | 3596915* | 324 | 120 | | |
| CP 00552 | | | LE | 2 | 4 | 04 | 21S | 37E | 672700 | 3598022* | 804 | 90 | 75 | 15 | |
| CP 00553 | | | LE | 2 | 4 | 04 | 21S | 37E | 672700 | 3598022* | 804 | 90 | 75 | 15 | |
| CP 00554 | | | LE | 2 | 2 | 16 | 21S | 37E | 672744 | 3595610* | 1608 | 80 | 70 | 10 | |
| CP 00212 | | | LE | 2 | 2 | 1 | 14 | 21S | 37E | 675254 | 3595753* | 2912 | 46 | | |
| CP 01141 POD2 | | | LE | 3 | 4 | 3 | 15 | 21S | 37E | 673541 | 3594250 | 3074 | 40 | | |
| CP 01141 POD3 | | | LE | 3 | 4 | 3 | 15 | 21S | 37E | 673541 | 3594250 | 3074 | 40 | | |
| CP 01141 POD4 | | | LE | 3 | 4 | 3 | 15 | 21S | 37E | 673541 | 3594250 | 3074 | 45 | | |
| CP 01575 POD1 | CP | | LE | 1 | 2 | 1 | 22 | 21S | 37E | 673543 | 3594200 | 3123 | 40 | 35 | 5 |
| CP 01185 POD1 | | | LE | 1 | 3 | 14 | 21S | 37E | 674598 | 3594689 | 3140 | 70 | | | |
| CP 01575 POD2 | CP | | LE | 2 | 2 | 1 | 22 | 21S | 37E | 673610 | 3594192 | 3149 | 35 | 35 | 0 |
| CP 01185 POD2 | | | LE | 1 | 3 | 14 | 21S | 37E | 674623 | 3594674 | 3166 | 70 | | | |
| CP 01574 POD1 | CP | | LE | 2 | 4 | 4 | 15 | 21S | 37E | 674563 | 3594599 | 3191 | 68 | 57 | 11 |
| CP 01185 POD3 | | | LE | 1 | 3 | 14 | 21S | 37E | 674592 | 3594620 | 3192 | 70 | | | |

Average Depth to Water: 57 feet

Minimum Depth: 35 feet

Maximum Depth: 75 feet

Record Count: 15

UTMNAD83 Radius Search (in meters):

Easting (X): 672737

Northing (Y): 3597218

Radius: 3220

*UTM location was derived from PLSS - see Help

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





New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

| File Nbr | Sub | Use | Diversion | Owner | County | POD Number | Code | Grant | (R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) | | | | (quarters are smallest to largest) (NAD83 UTM in meters) | | Distance | | | |
|--------------|-----|-----|-----------|--|--------|-----------------|------|---------|--|---|----|-----|--|--------|----------|----------|---------|------|
| | | | | | | | | | Source | q | q | q | X | Y | | | | |
| <u>00162</u> | | PLS | 3 | SAM W GRAVES | LE | <u>CP 00162</u> | | | 6416 | 4 | 2 | 09 | 21S | 37E | 672621 | 3596915* | 324 | |
| <u>00163</u> | | PLS | 3 | SAM W GRAVES | LE | <u>CP 00163</u> | | | 6416 | 4 | 2 | 09 | 21S | 37E | 672621 | 3596915* | 324 | |
| <u>00552</u> | | STK | 3 | MILLARD DECK | LE | <u>CP 00552</u> | | Shallow | 2 | 4 | 04 | 21S | 37E | 672700 | 3598022* | 804 | | |
| <u>00553</u> | | STK | 3 | MILLARD DECK | LE | <u>CP 00553</u> | | Shallow | 2 | 4 | 04 | 21S | 37E | 672700 | 3598022* | 804 | | |
| <u>01037</u> | | EXP | 0 | MCNEILL RANCH | LE | <u>CP 01037</u> | POD1 | | 2 | 2 | 2 | 10 | 21S | 37E | 674322 | 3597345 | 1591 | |
| <u>00554</u> | | STK | 3 | MILLARD DECK | LE | <u>CP 00554</u> | | Shallow | 2 | 2 | 16 | 21S | 37E | 672744 | 3595610* | 1608 | | |
| <u>00212</u> | | PDL | 3 | J.M. OWENS | LE | <u>CP 00212</u> | | | 2 | 2 | 1 | 14 | 21S | 37E | 675254 | 3595753* | 2912 | |
| <u>01486</u> | | DOL | 3 | MCCASLAND RANCH INC | LE | <u>CP 01486</u> | POD1 | NON | 4 | 2 | 1 | 05 | 21S | 37E | 670332 | 3599085 | 3044 | |
| <u>01141</u> | | MON | 0 | SOUTHERN UNION GAS SERVICES | LE | <u>CP 01141</u> | POD1 | | 3 | 4 | 3 | 15 | 21S | 37E | 673530 | 3594263 | 3059 | |
| | | | | | LE | <u>CP 01141</u> | POD5 | | 3 | 4 | 3 | 15 | 21S | 37E | 673514 | 3594253 | 3064 | |
| | | | | | LE | <u>CP 01141</u> | POD2 | Shallow | 3 | 4 | 3 | 15 | 21S | 37E | 673541 | 3594250 | 3074 | |
| | | | | | LE | <u>CP 01141</u> | POD3 | Shallow | 3 | 4 | 3 | 15 | 21S | 37E | 673541 | 3594250 | 3074 | |
| | | | | | LE | <u>CP 01141</u> | POD4 | Shallow | 3 | 4 | 3 | 15 | 21S | 37E | 673541 | 3594250 | 3074 | |
| <u>01436</u> | | MON | 0 | REGENCY FIELD SERVICES LLC | LE | <u>CP 01436</u> | POD1 | | 3 | 4 | 3 | 15 | 21S | 37E | 673562 | 3594229 | 3100 | |
| <u>01575</u> | | MON | 0 | ENERGY TRANSFER COMPANY REGENCY FIELD SERVICES INC | LE | <u>CP 01575</u> | POD1 | NON | Shallow | 1 | 2 | 1 | 22 | 21S | 37E | 673542 | 3594200 | 3123 |
| <u>01185</u> | | MON | 0 | STRAUB CORPORATION | LE | <u>CP 01185</u> | POD1 | | Shallow | 1 | 3 | 14 | 21S | 37E | 674598 | 3594689 | 3140 | |
| <u>01575</u> | | MON | 0 | GHD SERVICES INC | LE | <u>CP 01575</u> | POD2 | NON | Shallow | 2 | 2 | 1 | 22 | 21S | 37E | 673609 | 3594192 | 3149 |
| <u>01110</u> | | MON | 0 | STRAUB CORPORATION | LE | <u>CP 01110</u> | POD1 | | 1 | 3 | 14 | 21S | 37E | 674585 | 3594648 | 3165 | | |

A location was derived from PLSS - see Help



(R=POD has been replaced
and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

| File Nbr | Sub basin | Use | Diversion | Owner | County | POD Number | Code | Grant | Source | 6416 | 4 | Sec | Tws | Rng | X | Y | Distance | |
|--------------|--------------|-----|-----------|-------------------------------|--------|-----------------|------|-------|---------|------|---|-----|-----|-----|--------|---------|----------|------|
| | | | | | LE | <u>CP 01110</u> | POD2 | | | 1 | 3 | 14 | 21S | 37E | 674585 | 3594648 | 3165 | |
| | | | | | LE | <u>CP 01110</u> | POD3 | | | 1 | 3 | 14 | 21S | 37E | 674585 | 3594648 | 3165 | |
| | | | | | LE | <u>CP 01110</u> | POD4 | | | 1 | 3 | 14 | 21S | 37E | 674585 | 3594648 | 3165 | |
| | | | | | LE | <u>CP 01110</u> | POD5 | | | 1 | 3 | 14 | 21S | 37E | 674585 | 3594648 | 3165 | |
| <u>01185</u> | MON | | | 0 SOUTHERN UNION GAS SERVICES | LE | <u>CP 01185</u> | POD2 | | Shallow | 1 | 3 | 14 | 21S | 37E | 674623 | 3594674 | 3166 | |
| <u>01121</u> | EXP | | | 0 SOUTHERN UNION GAS SERVICES | LE | <u>CP 01121</u> | POD1 | | | 3 | 1 | 3 | 14 | 21S | 37E | 674605 | 3594639 | 3184 |
| <u>639</u> | L | CLS | | 0 SOUTHERN UNION GAS SERVICES | LE | <u>L 12639</u> | POD1 | C | | 3 | 1 | 3 | 14 | 21S | 37E | 674605 | 3594639 | 3184 |
| <u>01574</u> | MON | | | 0 GHD SERVICES INC | LE | <u>CP 01574</u> | POD1 | NON | Shallow | 2 | 4 | 4 | 15 | 21S | 37E | 674562 | 3594599 | 3191 |
| <u>01185</u> | MON | | | 0 SOUTHERN UNION GAS SERVICES | LE | <u>CP 01185</u> | POD3 | | Shallow | 1 | 3 | 14 | 21S | 37E | 674592 | 3594620 | 3192 | |

Record Count: 27

UTM NAD83 Radius Search (in meters):

Easting (X): 672737

Northing (Y): 3597218

Radius: 3220

Sorted by: Distance

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.

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1507A44
 Date Reported: 7/30/2015

CLIENT: Permits West
 Project: Apache WBDV36
 Lab ID: 1507A44-001

Client Sample ID: A-WBDU-Sec 4 21S-37E
 Collection Date: 7/21/2015 8:49:00 AM
 Received Date: 7/22/2015 1:06:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|------|------|-------|-----|-----------------------|--------------|
| EPA METHOD 1664A | | | | | | | Analyst: MRA |
| N-Hexane Extractable Material | ND | 9.8 | | mg/L | 1 | 7/23/2015 | 20400 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: LGT |
| Chloride | 180 | 50 | | mg/L | 100 | 7/24/2015 1:04:03 AM | R27720 |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 1000 | 20.0 | * | mg/L | 1 | 7/27/2015 11:49:00 AM | 20433 |

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 | |



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: Apache WBDU #2 9-21S-37E

Project: Apache WBDUSWD

Collection Date: 6/18/2015 9:45:00 AM

Lab ID: 1506A89-002

Matrix: AQUEOUS

Received Date: 6/23/2015 1:44:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|------|------|-------|----|----------------------|--------------|
| EPA METHOD 1664A | | | | | | | Analyst: MRA |
| N-Hexane Extractable Material | ND | 9.8 | | mg/L | 1 | 6/25/2015 2:00:00 PM | 19939 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: LGT |
| Chloride | 18 | 5.0 | | mg/L | 10 | 7/8/2015 1:28:10 AM | R27345 |
| SM2540C MOD: TOTAL DISSOLVED SOLIDS | | | | | | | Analyst: KS |
| Total Dissolved Solids | 206 | 20.0 | | mg/L | 1 | 6/25/2015 9:14:00 PM | 19903 |

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 |
| | 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 |
| | O RSD is greater than RSDlimit | P Sample pH Not In Range |
| | R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| | S Spike Recovery outside accepted recovery limits | |

EXHIBIT I

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](#)

EXHIBIT J



Geologic Hazards Science Center

EHP Quaternary Faults

Search for fault: Select a state or region map: :

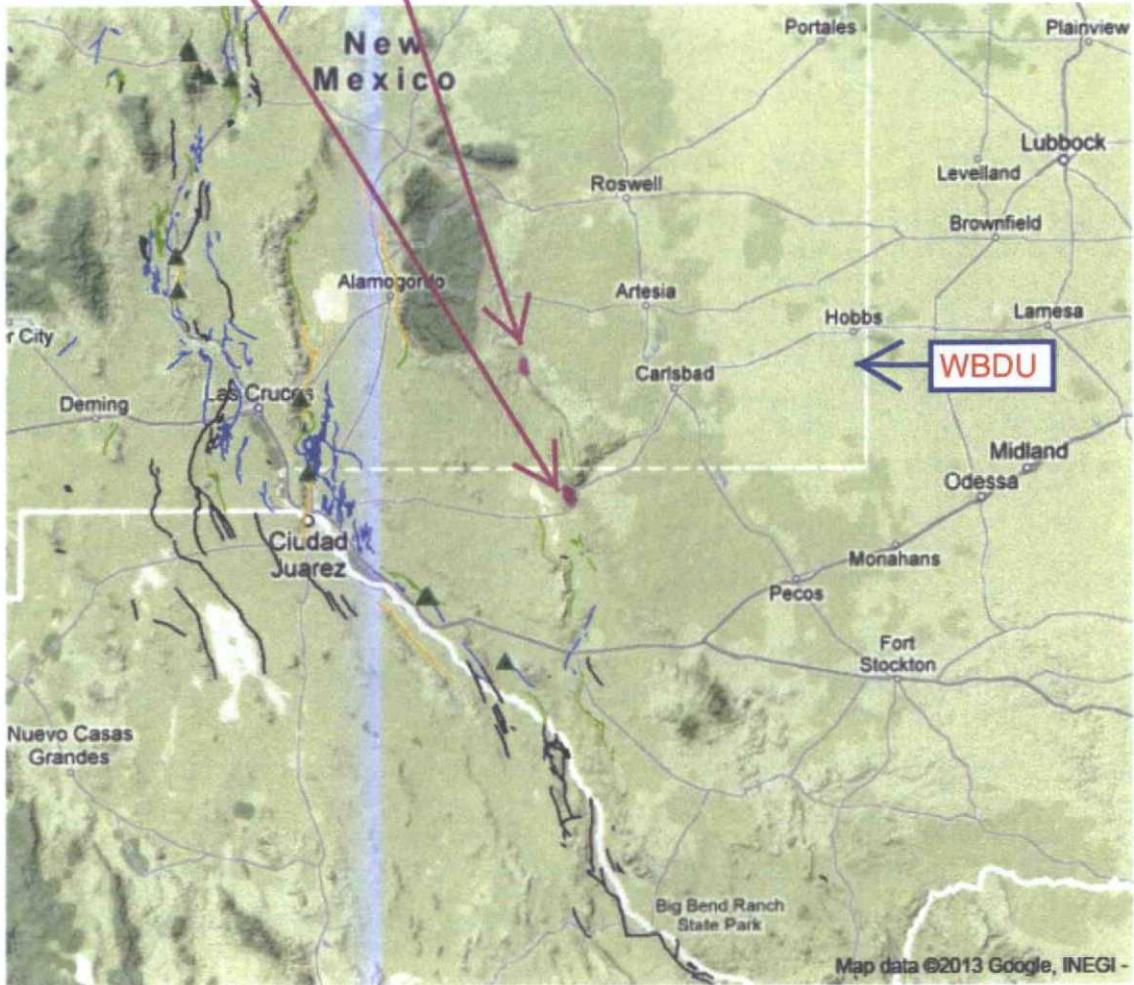


EXHIBIT J

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

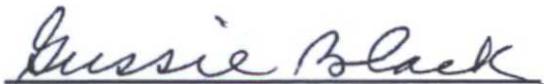
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
January 13, 2016
and ending with the issue dated
January 13, 2016.



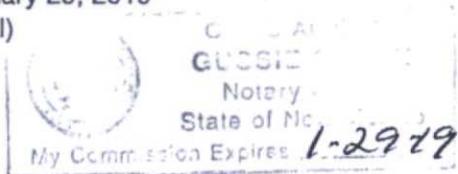
Publisher

Sworn and subscribed to before me this
13th day of January 2016.



Business Manager

My commission expires
January 29, 2019
(Seal)



02108485

00169037

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

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

LEGAL NOTICE January 13, 2016

Apache Corporation is applying to increase the injection interval of its West Blinberry Drinkard Unit 10 water injection well. The well is at 660 FNL & 585 FEL, Sec. 9, T. 21 S., R. 37 E., Lea County, NM. This is 4 miles north of Eunice, NM. It will inject water into the Blinberry, Tubb, and Drinkard (maximum injection pressure = 1,131 psi) from 5,658' to 6,745'. Injection will be at a maximum rate of 3,000 bwpd. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting: Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120. #30610

EXHIBIT K


PERMITS WEST, INC.
 PROVIDING PERMITS for LAND USERS
 37 Verano Loop, Santa Fe, New Mexico 87503 (505) 466-8120

January 21, 2016

Millard Deck Estate
 3903 Bellaire Blvd
 Houston TX 77025

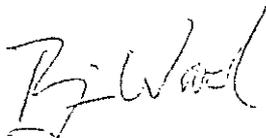
Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinbry Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: West Blinbry Drinkard Unit 10 (fee lease) TD = 8,482'
Proposed Injection Zone: Drinkard from 6,450' to 6,745'
Location: 660' FNL & 585' FEL Sec. 9, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 4 air miles north of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,



Brian Wood

APACHE WBDU

TD

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| Certified Mail Fee | |
| Extra Services & Fees (check box, add fee if appropriate) | |
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ |
| <input type="checkbox"/> Return Receipt (electronic) | \$ |
| <input checked="" type="checkbox"/> Certified Mail Restricted Delivery | \$ |
| <input type="checkbox"/> Adult Signature Required | \$ |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ |
| Postage | \$ |
| Total Postage and Fees | \$ |
| Sent To: Millard Deck Estate 3903 Bellaire Blvd Houston TX 77025 Street and Apt. No., or P.O. Box: Apache WBDU 10 City, State, ZIP+4®: 87552 | |

PECS NM
 JAN 23
 87552

EXHIBIT L

7015 0640 0000 6227 9476



January 21, 2016

Breck Operating Corp
PO Box 911
Breckendridge CO 76424

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinbery Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: 4 air miles north of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,

Brian Wood

EXHIBIT L

7015 0640 0000 6227

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 Adult Signature Required
 Adult Signature Restricted Delivery

Postage \$ 1.86
Total Postage and Fees \$ 4.31

Sent to Breck Operating Corp.
PO Box 911
Breckendridge CO 76424

Sent via AIR MAIL, or P Apache WBDU 10

City, State ZIP+4® SLU, NM 87508

PS Form 3826, April 2013 PSN 7530-02-000-9017 See Reverse for Instructions

RECORDS NM
JAN 23 2016
87552



January 21, 2016

BLM
620 E. Greene Street
Carlsbad NM 88220

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinbery Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

Sincerely,

Brian Wood

7015 0640 0000 6227 9454

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Extra Services & Fees (check box, add fee) \$ 2.82
 Return Receipt (hardcopy)
 Return Receipt (electronic)
 Certified Mail Restricted Delivery
 Adult Signature Required
 Adult Signature Restricted Delivery

Postage \$ 1.86
Total Postage and Fees \$ 4.31

Sent to BLM
620 E. Greene Street
Carlsbad NM 88220

Sent via AIR MAIL, or P Apache WBDU 10

City, State ZIP+4® SLU, NM 87508

PS Form 3826, April 2013 PSN 7530-02-000-9017 See Reverse for Instructions

RECORDS NM
JAN 23 2016
87552



January 21, 2016

Chevron USA
PO Box 1635
Houston TX 77251

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinebry Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

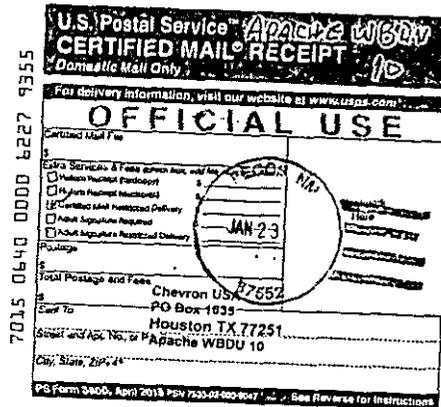
Well Name: West Blinebry Drinkard Unit 10 (fee lease) ID = 8,482'
Proposed Injection Zone: Drinkard from 6,450' to 6,745'
Location: 660' FNL & 585' FEL Sec. 9, T. 21-S., R. 37 E., Lea County, NM
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Please call me if you have any questions.

Sincerely,

Brian Wood



January 21, 2016

Conoco Phillips Co
PO Box 7500
Houston TX 74005-7500

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinebry Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: 4 air miles north of Eunice, NM
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Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,

Brian Wood

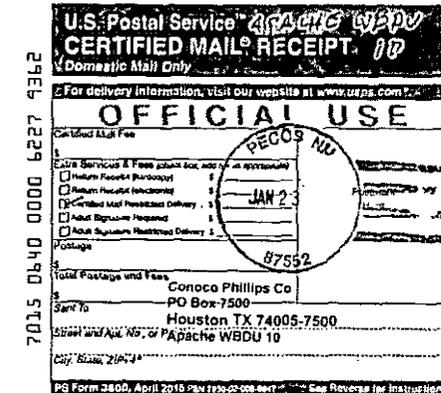


EXHIBIT L

January 21, 2016

Devon Energy Prod Co LP
 333 W. Sheridan Ave
 Oklahoma City OK 73102-5010

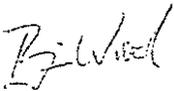
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Approximate Location: 4 air miles north of Eunice, NM
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Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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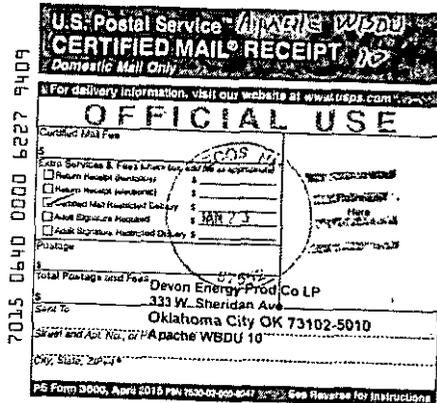
Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT L



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Certified Mail Restricted Delivery \$ 0.00

Adult Signature Required \$ 0.00

Adult Signature Restricted Delivery \$ 0.00

Postage \$ 0.00

Total Postage and Fees \$ 6.27

Devon Energy Prod Co LP
 333 W. Sheridan Ave
 Oklahoma City OK 73102-5010

Sent to: Apache WBDU 10

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

January 21, 2016

Energen Resources Co
 605 Richard Arrington Jr Blvd
 Birmingham AL 35203-2707

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinbery Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

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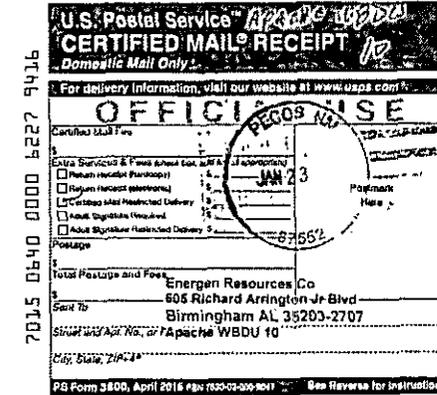
Submittal Information: Application for a water injection well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis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

Please call me if you have any questions.

Sincerely,



Brian Wood



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Adult Signature Required \$ 0.00

Adult Signature Restricted Delivery \$ 0.00

Postage \$ 0.00

Total Postage and Fees \$ 6.27

Energen Resources Co
 605 Richard Arrington Jr Blvd
 Birmingham AL 35203-2707

Sent to: Apache WBDU 10

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



January 21, 2016

Kerr-McGee OG Onshore LP
1999 Broadway #3700
Denver CO 80202

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinebry Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: 4 air miles north of Eunice, NM
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Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,

Brian Wood

EXHIBIT L

7035 0640 0000 6227 9423

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 Denver CO 80202
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 Apache WBDU 10
 City, State, ZIP+4®

REC'D 703
 JAN 23 Postmark
 Here
 87552

PS Form 3800, April 2015 PSN 7530-02-000-9077 See Reverse for Instructions

January 21, 2016

John H. Hendrix
110 N. Marienfeld
Midland TX 79701

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinebry Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules; I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

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

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

Please call me if you have any questions.

Sincerely,

Brian Wood

7035 0640 0000 6227 9374

U.S. Postal Service™ *APACHE WOOD*
CERTIFIED MAIL® RECEIPT 10
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Postage
 Total Postage and Fees
 \$ John H. Hendrix
 110 N. Marienfeld
 Midland TX 79701
 Street and Apt. No., or P.O. Box
 Apache WBDU 10
 City, State, ZIP+4®

REC'D 703
 JAN 23 Postmark
 Here
 87552

PS Form 3800, April 2015 PSN 7530-02-000-9077 See Reverse for Instructions



January 21, 2016

Oxy USA WTP LP
6 Desta Drive #6000
Midland TX 79705-5505

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinebry Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: West Blinebry Drinkard Unit 10 (fee lease) **TD = 8,482'**
Proposed Injection Zone: Drinkard from 6,450' to 6,745'
Location: 660' FNL & 585' FEL Sec. 9, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 4 air miles north of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,

Brian Wood

EXHIBIT L



January 21, 2016

NMSLO
PO Box 1148
Santa Fe NM 87504

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinebry Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules; I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

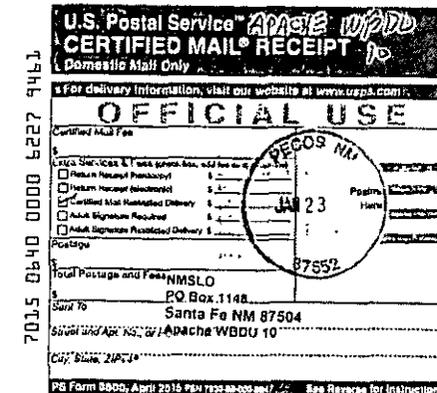
Well Name: West Blinebry Drinkard Unit 10 (fee lease) **TD = 8,482'**
Proposed Injection Zone: Drinkard from 6,450' to 6,745'
Location: 660' FNL & 585' FEL Sec. 9, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 4 air miles north of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,

Brian Wood



January 21, 2016

Petro Strategies Inc
 PO Box 5562
 Midland TX 79704

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinbery Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: West Blinbery Drinkard Unit 10 (fee lease) TD = 8,482'
Proposed Injection Zone: Drinkard from 6,450' to 6,745'
Location: 660' FNL & 585' FEL Sec. 9, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 4 air miles north of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,



Brian Wood

EXHIBIT L

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

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Return Receipt (electronic) \$ 1.25

Certified Mail Restricted Delivery \$ 2.85

Adult Signature Required \$ 2.85

Adult Signature Restricted Delivery \$ 2.85

Postage \$ 1.25

Total Postage and Fees \$ 2.50

Sent To Petro Strategies Inc
 PO Box 5562
 Midland TX 79704

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

Postmark: JAN 21 2016 Postoffice: 87552

PS Form 3800, April 2015 PSN 7530-02-000-9017 See Reverse for Instructions

January 21, 2016

Penroc Oil Corp
 PO Box 2769
 Hobbs NM 88241

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinbery Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: West Blinbery Drinkard Unit 10 (fee lease) TD = 8,482'
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Approximate Location: 4 air miles north of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,



Brian Wood

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Adult Signature Required \$ 2.85

Adult Signature Restricted Delivery \$ 2.85

Postage \$ 1.25

Total Postage and Fees \$ 2.50

Sent To Penroc Oil Corp
 PO Box 2769
 Hobbs NM 88241

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

Postmark: JAN 21 2016 Postoffice: 87552

PS Form 3800, April 2015 PSN 7530-02-000-9017 See Reverse for Instructions



January 21, 2016

Vanguard Operating LLC
1209 S. Main Street
Lovington NM 88260

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinbery Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

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

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

Please call me if you have any questions.

Sincerely,

Brian Wood

EXHIBIT L

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

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **Vanguard Operating LLC**
1209 S. Main Street
Lovington NM 88260
Street and Apt. No., or PO Box No. or PO Box No. or PO Box No.

City, State, ZIP+4®

PS Form 3800, April 2013 PSN 7530-02-000-6047 See Reverse for Instructions

7015 0640 0000 6227 9348

JAN 23 87505



January 21, 2016

St. Croix Corp
13601 Preston #406E
Dallas TX 75240

Apache Corporation is applying (see attached application) to increase the depth of the water injection interval in its West Blinbery Drinkard Unit 10 well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

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Location: 660' FNL & 585' FEL Sec. 9, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 4 air miles north of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,

Brian Wood

U.S. Postal Service **APACHE WBDU**
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OFFICIAL USE

Certified Mail Fee \$

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

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total Postage and Fees \$

Sent To **St. Croix Corp**
13601 Preston #406E
Dallas TX 75240
Street and Apt. No., or PO Box No. or PO Box No. or PO Box No.

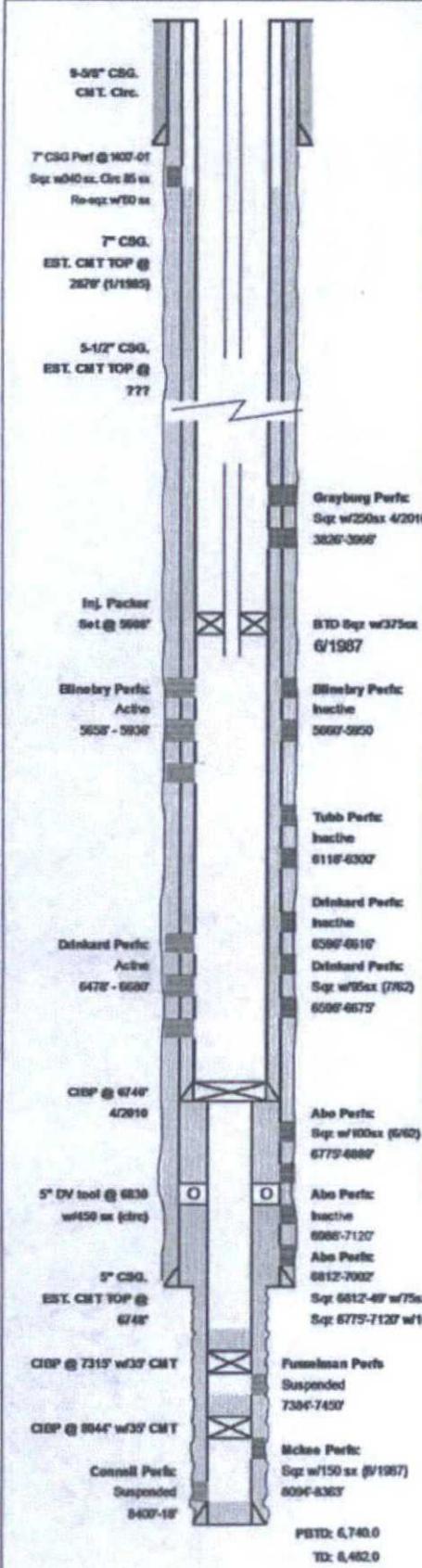
City, State, ZIP+4®

PS Form 3800, April 2013 PSN 7530-02-000-6047 See Reverse for Instructions

7015 0640 0000 6227 9447

JAN 23 87505

Apache Corporation
WBDU #10W (Southland Royalty A #7)
WELL DIAGRAM (CURRENT CONFIGURATION)



| WELL NAME: WBDU #10W (Southland Royalty A #7) | | API: 30-025-06445 | | |
|--|--|-------------------------|---------------|-------------------|
| LOCATION: 860' FNL, 585' FEL, 8c 9, T-21S, R-37E | | COUNTY: Lea Co., NM | | |
| SPUD/TD DATE: 5/8/1962 - 5/28/1962 | | COMP. DATE: 8/30/1962 | | |
| PREPARED BY: Brent Shapoff | | DATE: 12/2/2015 | | |
| TD (ft): 8,482.0 | KB Elev. (ft): 3480.0 | KB to Ground (ft): 12.0 | | |
| PSTD (ft): 6,740.0 | Ground Elev. (ft): 3468.0 | | | |
| CASING/TUBING | SIZE (IN) | WEIGHT (LB/FT) | GRADE | DEPTHS (FT) |
| Surface Casing | 9-5/8" (Cmt. w/ 580sx, Circ.) | 32.30 | H-40 | 0.00 1,331.00 |
| Int. Casing | 7" (Cmt. w/ 1550sx, Circ.) | 20 / 23 | J-55 N-80 | 0.00 7,189.00 |
| Liner 1 7/1967 | 5" (Cmt. w/ 260 sx, Circ.) DV tool @ 6830', 450 sx circ | 14.87 | K-55 FL 45 | 6,748.00 8,473.00 |
| Liner 2 10/2000 ? | 5-1/2" (Cmt. w/ 750 sx) | 23.00 | J-55 N-80 | 0.00 6,888.00 |

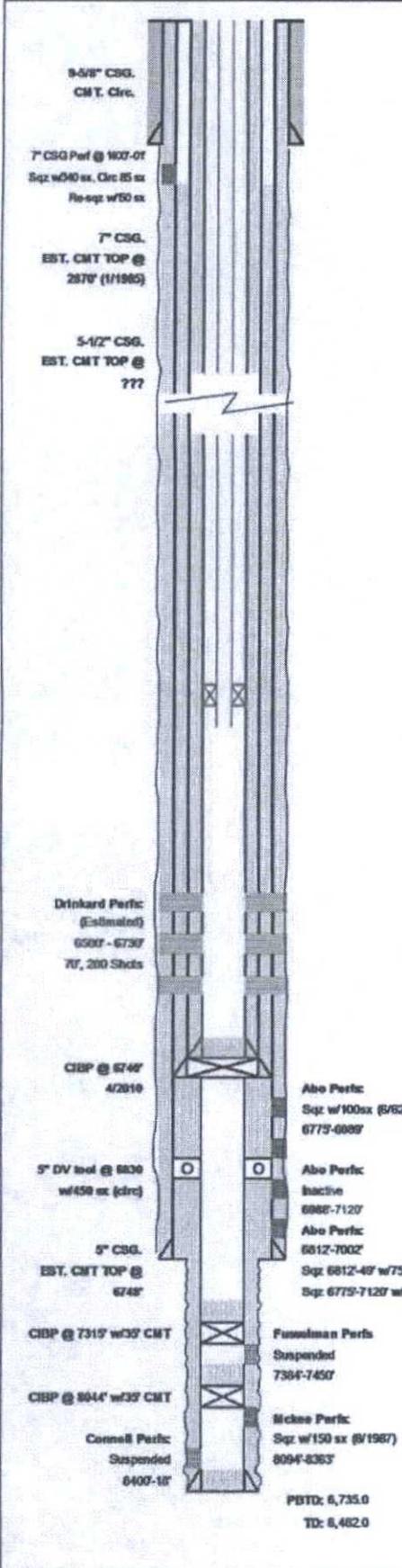
| INJECTION TBG STRING | | | |
|----------------------|-----------------------------------|-------------|----------|
| ITEM | DESCRIPTION | LENGTH (FT) | Btm (FT) |
| 1 | 177 JTS 2-3/4" IPC Tubing | | |
| 2 | Baker Lck-nd packer w/on-off tool | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |

| PERFORATIONS | | | |
|--------------|--|----|-----|
| Form | Intervals | FT | SPF |
| Grayburg | (Squeezed) 3626-44', 52'-64', 72'-78', 90'-98', 3910'-30', 3956'-68' | | 4 |
| Blinbery | 5658-70', 5724-28', 32'-44', 54'-60', 67'-71', 5777', 83', 90', 97', 5800'-04', 08'-12', 28'-30', 37', 40', 46', 62', 68'-70', 84'-90', 5900', 10'-12', 15'-18', 27'-30' | | 2 |
| | (Inactive) 5818'-21', 30'-32', 40'-42', 62'-64', 71'-73', 88'-88', 5600'-02', 10'-12', 34'-38', 48'-50' | | 2 |
| Drinkard | (Inactive) 5980'-70', 5724'-28', 29', 33'-37', 41'-47', 58'-61' | | 2 |
| Tubb | (Squeezed) 6118'-20', 38'-50', 6238'-48', 63'-72', 95'-6300' | | 4 |
| | 6478'-82', 6520'-24', 6582'-8000', 6603'-08', 11'-18', 29'-31', 37'-41', 54'-58', 68'-72', 77'-80' | | 2 |
| Drinkard | (Inactive) 6478'-84', 6518'-30' | | 4 |
| | (Sqr w/95sx 7/1962) 6586'-6816', 38'-42', 53'-58', 67'-75' | | 2 |
| | (Inactive) 6586' - 6816' | | 2 |
| Abo | (Inactive) 6988'-97', 7038'-44', 80'-85', 7115'-20' | | 2 |
| Abo | (Inactive) 6775'-70', 6813'-18', 39'-49', 83'-89' | | 2 |
| Abo | (Squeezed) 6812'-18', 28'-33', 39'-49', 83'-9910', 6888'-7002' | | 4 |
| Fusell | (Suspended) 7384' - 7422', 7430' - 50' | | 4 |
| Abo | (Squeezed) 8238'-42', 50'-60', 80'-83', 8300'-04', 42'-48', 58'-63' | | 4 |
| McKee | (Squeezed) 8094'-8100', 8112'-29', 30'-38', 42'-50', 58'-60', 64'-68', 72'-80', 94'-8210' | | 4 |
| Connell | (Suspended) 8400'-18' | | 4 |

11 before 11

PSTD: 6,740.0
TD: 8,482.0

Apache Corporation
 WBDU #10W (Southland Royalty A #7)
 WELL DIAGRAM (PROPOSED CONFIGURATION)



| | | | |
|---------------|---|--------------------|--------------|
| WELL NAME: | WBDU #10W (Southland Royalty A #7) | API: | 30-025-06445 |
| LOCATION: | 660' FNL, 585' FEL, Sec 9, T-21S, R-37E | COUNTY: | Lea Co., NM |
| SPUD/TD DATE: | 5/8/1962 - 5/28/1962 | COMP. DATE: | 8/30/1962 |
| PREPARED BY: | Bret Shapof | DATE: | 12/2/2015 |
| TD (ft): | 8,482.0 | KB Elev. (ft): | 3480.0 |
| PBTD (ft): | 6,735.0 | Ground Elev. (ft): | 3468.0 |
| | | KB to Ground (ft) | 12.0 |

| CASING/TUBING | SIZE (IN) | WEIGHT (LB/FT) | GRADE | DEPTHS (FT) | |
|----------------------|--|----------------|---------------|-------------|----------|
| Surface Casing | 9-5/8" (Cmt. w/ 580sx, Circ.) | 32.30 | H-40 | 0.00 | 1,331.00 |
| Int. Casing | 7" (Cmt. w/ 1550sx, Circ.) | 20 / 23 | J-55 N-80 | 0.00 | 7,189.00 |
| Liner 1 7/1967 | 5" (Cmt. w/ 260 sx, Circ.) DV tool @ 6830', 450 sx circ | 14.87 | K-55 FL 45 | 6,748.00 | 8,473.00 |
| Liner 2 10/2000 7 | 5-1/2" (Cmt. w/ 750 sx) | 23.00 | J-55 N-80 | 0.00 | 6,669.00 |
| Liner 3 | 4-1/2" Cmt. To surf | 11.60 | J-55 | 0.00 | 6,740.00 |

| INJECTION TBG STRING | | | |
|----------------------|---|-------------|----------|
| ITEM | DESCRIPTION | LENGTH (FT) | Btm (FT) |
| 1 | 2-3/8" 4.7 LB/FT J-55 IPC TBG | 6,492.00 | 6,492.00 |
| 2 | 2-3/8" ON/OFF TOOL W/ 1.78 F PROFILE | 1.80 | 6,493.80 |
| 3 | 2-3/8" X 4-1/2" NICKLE PLATED ARROW-SET PKR | 6.20 | 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 | | | |
| 10 | | | |

| PERFORATIONS | | | |
|--------------|---|----|-----|
| Form. | Intervals | FT | SPF |
| Drinkard | (Estimated) 6500' - 6730' | 70 | 4 |
| Abo | (Inactive) 6668'-67', 7038'-44', 60'-66', 7115'-20' | | 2 |
| Abo | (Inactive) 6775'-79', 6813'-18', 39'-49', 83'-88' | | 2 |
| Abo | (Squeezed) 6812'-16', 28'-33', 39'-49', 83'-8910', 6668'-7002' | | 4 |
| Fussell | (Suspended) 7384' - 7422', 7430' - 50' | | 4 |
| | (Squeezed) 8238'-42', 50'-60', 60'-63', 8300'-04', 42'-46', 58'-63' | | 4 |
| McKee | (Squeezed) 8094'-8100', 8112'-25', 30'-36', 42'-50', 56'-60', 64'-68', 72'-80', 94'-8210' | | 4 |
| Connell | (Suspended) 8400'-18' | | 4 |

u. After 11

PBTD: 6,735.0
 TD: 8,482.0



C-108 Review Checklist: Received 1/25 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 15]

ORDER TYPE: WFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: R-12-981

Well No. 10 Well Name(s): West Blingby Drink And

API: 30-0 25-06445 Spud Date: 5-08-1962 New or Old: 0 (UIC Class II Primacy 03/07/1982)

Footages 660 FUL
585 FEL Lot _____ or Unit A Sec 9 Tsp 21 S Rge 37 E County LEC

General Location: 2 3/4 miles N/E unide Pool: TH-DM Pool No.: 22900

BLM 100K Map: JAL Operator: A Pacific Corp OGRID: 873 Contact: Brian Wood; Agent

COMPLIANCE RULE 5.9: Total Wells: 3081 Inactive: 2 Fincl Assur: Y Compl. Order? NA IS 5.9 OK? Y Date: 2-08-2004

WELL FILE REVIEWED Current Status: injector well

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: Y

Planned Rehab Work to Well: * Inj pni = 1120 psi (part of R-12-981)

| Well Construction Details | Sizes (in) | | Setting | | Cement Sx or Cf | Cement Top and Determination Method |
|---|-----------------------|------------------------------|-------------|------------------------|---|-------------------------------------|
| | Borehole / Pipe | | Depths (ft) | Stage Tool | | |
| Planned ___ or Existing ___ Surface | <u>12 1/4 / 6 7/8</u> | | <u>1331</u> | | <u>580</u> | <u>SURFACE / U/S 44</u> |
| Planned ___ or Existing ___ Interm/Prod | <u>8 3/4 / 7</u> | | <u>1400</u> | | <u>575</u> | <u>SURFACE / U/S 44</u> |
| Planned ___ or Existing ___ Interm/Prod | <u>8 3/4 / 7</u> | | <u>7169</u> | | <u>1550</u> | <u>2870 / CBL</u> |
| Planned ___ or Existing ___ Prod/Liner | <u>6 7/8 / 5 1/2</u> | | <u>8482</u> | | <u>1460</u> | <u>NID / NID</u> |
| Planned ___ or Existing ___ (Liner) | <u>4 1/2</u> | | <u>6740</u> | | <u>189</u> | <u>SURFACE / U/S 44</u> |
| Planned ___ or Existing ___ OH / (PERF) | <u>6450 / 6745</u> | | | Inj Length: <u>295</u> | Completion/Operation Details: | |
| Injection Lithostratigraphic Units: | Depths (ft) | Injection or Confining Units | | Tops | Drilled TD <u>8482</u> PBTD <u>6740</u> | |
| Adjacent Unit: Litho. Struc. Por. | | | | | NEW TD _____ NEW PBTD <u>6740</u> | |
| Confining Unit: Litho. Struc. Por. | | | | | NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/> | |
| Proposed Inj Interval TOP: | <u>6450</u> | <u>Ce Poplb</u> | | <u>6450</u> | Tubing Size <u>2 3/8</u> in. Inter Coated? <u>Y</u> | |
| Proposed Inj Interval BOTTOM: | <u>6745</u> | <u>WC</u> | | <u>6780</u> | Proposed Packer Depth <u>6400</u> ft | |
| Confining Unit: Litho. Struc. Por. | | | | | Min. Packer Depth <u>6350</u> (100-ft limit) | |
| Adjacent Unit: Litho. Struc. Por. | | | | | Proposed Max. Surface Press. <u>1290</u> psi | |
| | | | | | Admin. Inj. Press. <u>1290</u> (0.2 psi per ft) | |

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NA Noticed? BLM Sec Ord WIPP Noticed? Salt/Salado T: _____ B: _____ NW: Cliff House fm _____

FRESH WATER: Aquifer Quaternary Max Depth 90 HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: CAPITAN CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 3 FW Analysis Y

Disposal Fluid: Formation Source(s) Produced H2O Analysis? Y On Lease Operator Only or Commercial

Disposal Int: Inject Rate (Avg/Max BWPD): 2500/3000 Protectable Waters? _____ Source: _____ System: Closed or Open

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

AOR Wells: 1/2-M Radius Map? Y Well List? 59 Total No. Wells Penetrating Interval: 59 Horizontals? NA

Penetrating Wells: No. Active Wells 59 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 1 Num Repairs? _____ on which well(s)? _____ Diagrams? Y

NOTICE: Newspaper Date JANUARY Mineral Owner WILLIAM DECKER Surface Owner WMSLO N. Date JAN 23

RULE 26.7(A): Identified Tracts? _____ Affected Persons: DEVON, ENERGEN, BCM, OXY N. Date JAN 23

Order Conditions: Issues: _____

Add Order Cond: * Part of unitized interval