

DATE IN 1/2/2016	SUSPENSE	ENGINEER	LOGGED IN 1/2/2016	TYPE WFX	APP NO PMM/1601/1355173
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A] WFX-952
 [A] Location - Spacing Unit - Simultaneous Dedication Apache Corporation (OGRID 873)
☐ NSL ☐ NSP ☐ SD West Blinberry Drinkard Unit 92
30-025-37535
 Check One Only for [B] or [C] Eunice; BLI-TU-DR, North (22900)
 [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 X WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
 [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
 [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] X Offset Operators, Leaseholders or Surface Owner
 [C] X Application is One Which Requires Published Legal Notice
 [D] X Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] X For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

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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

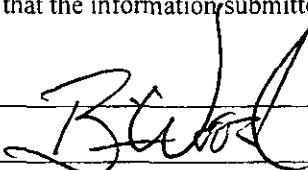
brian@permitswest.com

e-mail Address

1-11-16

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 92
- VII. Attach data on the proposed operation, including: **30-025-37535**
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.).
- *VII. 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 4, 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.

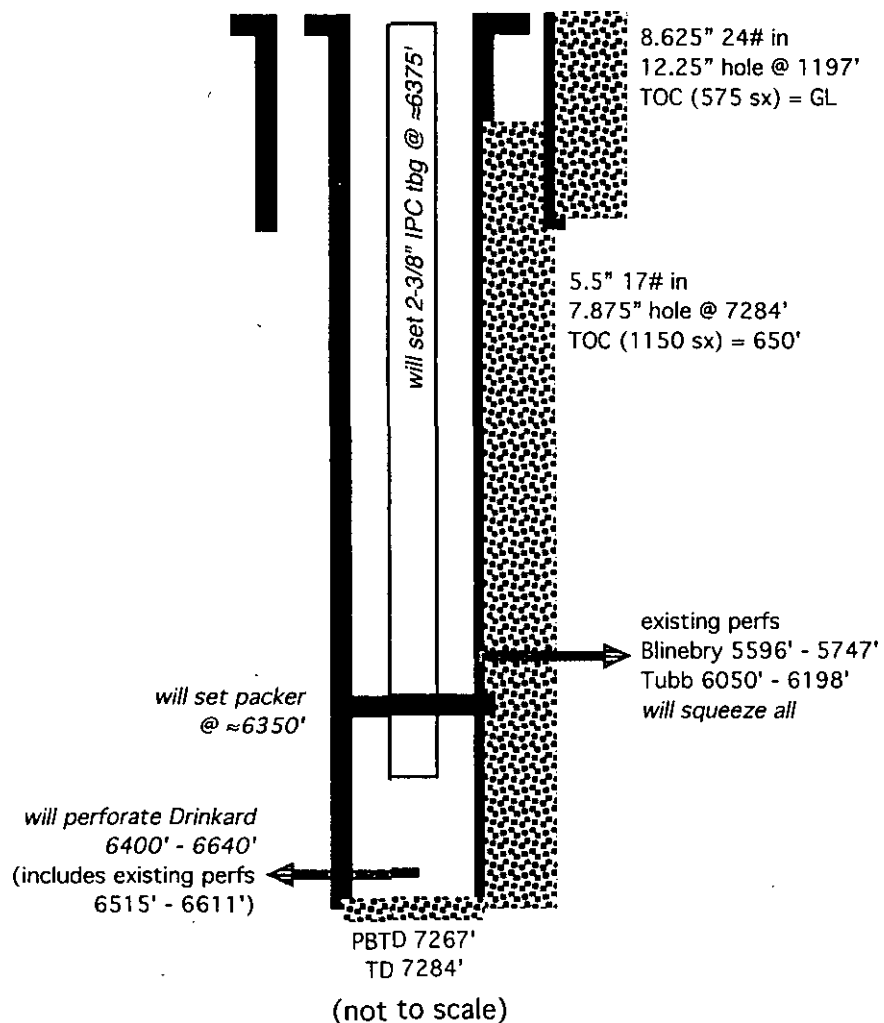
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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 SHEET

OPERATOR: APACHE CORPORATIONWELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 92

WELL LOCATION: 910' FSL & 1330' FEL O 16 21 S 37 E
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 12.25" Casing Size: 8.625"
 Cemented with: 575 sx. *or* _____ ft³
 Top of Cement: SURFACE Method Determined: CIRCULATED

Intermediate Casing

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

Production Casing

Hole Size: 7.875" Casing Size: 5.5"
 Cemented with: 1,150 sx. *or* _____ ft³
 Top of Cement: 650' Method Determined: CBL
 Total Depth: 7,284'

Injection Interval

6,400' feet to 6,640'

(Perforated or Open Hole; indicate which)

.....

INJECTION WELL DATA SHEETTubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COATType of Packer: LOCK SET INJECTIONPacker Setting Depth: 6,350'

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

Additional Data

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

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

2. Name of the Injection Formation:
- DRINKARD

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

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

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 (3,714'), SAN ANDRES (3,994'), PADDOCK (≈5,160)BLINEBRY (5,592'), & TUBB (6,069')UNDER: ABO (6,676'), MONTOYA (≈7,295'), McKEE (≈7,558'), CONNELL (≈8,8086')

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910' FSL & 1330' FEL
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I. Goal is to convert this existing Blinebry, Tubb, Drinkard oil well (fka, State Land 15 #9) to a water injection well to increase oil recovery. The well will inject (6,400' - 6,640') into the Drinkard, which is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900).

The well and zone are part of the West Blinebry Drinkard Unit (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: NM State Land Office B0-8105-0004
Lease Size: 160 acres (see Exhibit A for maps and C-102)
Closest Lease Line: 410'
Lease Area: S2S2 Section 16, T. 21 S., R. 37 E.
Unit Size: 2,480 acres Unit Numbers: 300341 & NMNM-120042X
Closest Unit Line: 910'
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 (8-5/8", 24#) was set in 2005 at 1197' in a 12.25" hole with 575 sacks, of which 171 sacks circulated to surface.

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Production casing (5.5", 24#) was set at 7,284' (TD) in a 7.875" hole and cemented to 650' (CBL) with 1,150 sacks.

- A. (3) Tubing will be internally plastic coated 2-3/8", J-55, 4.7#. Setting depth will be \approx 6,375'. (Injection interval will be 6,400' to 6,640'.)
- A. (4) A lock set injection packer will be set at \approx 6350' (\approx 50' above the highest perforation of 6400').
- 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 6,400' to 6,640'. The well is a cased hole. Well is currently perforated in the Blinebry, Tubb, and Drinkard.
- B. (3) Well was originally drilled as a Blinebry, Tubb, Drinkard oil well.
- B. (4) Well is currently perforated in three zones: Blinebry (5,596' - 5,747'), Tubb (6,050' - 6,198'), and Drinkard (6,515' - 6,611'). Perforations outside the proposed injection interval (6,400' - 6,640') will be squeezed.
- B. (5) Next higher oil or gas zone in the area of review is the Tubb. It produced from 6,050' to 6,198' in this well. Injection will occur in the Drinkard from 6,400' to 6,640'. (Drinkard top = 6,372'.) Both zones are part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (pool code 22900) and in the unit.

No lower oil or gas zone currently produces in the area of review. Next lower productive zone is the Abo. It was penetrated by this well, but was not tested. Abo top is at 6,676. Wantz; Abo (pool code 62700) has produced elsewhere in the area of review in the past.

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 910' south. Four existing injection wells are within a half-mile radius. All are in the unit (see Exhibit B).

V. Exhibit B shows all 55 existing wells (47 oil or gas wells + 4 water injection wells + 3 + P&A wells + 1 water supply well) within a half-mile radius, regardless of depth. Exhibit C shows all 800 existing wells (618 oil or gas wells + 90 injection or disposal wells + 62 P & A wells + 38 water supply wells) within a two-mile radius.

Exhibit D shows all leases (only BLM, State, and fee) within a half-mile radius. Exhibit E 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 (T 21 S, R 37 E)	Lessor(s)	Lease	Lessee(s) of Record	Drinkard operator, if any
SWNW Sec. 15	NMSLO	B0-1481-0018	Oxy USA WTP	Apache
W2SW4 Sec. 15	fee	Argo (NEDU)	Apache	Apache
S2NE4 Sec. 16	NMSLO	B0-1732-0001	Chevron	Apache
SENE4 Sec. 16	NMSLO	B0-1557-0002	Apache	Apache
N2SE4 & NESW	NMSLO	B0-0085-0016	Apache	Apache
S2S2 Sec. 16	NMSLO	B0-8105-0004	Apache	Apache
E2NE4 Sec. 21	BLM	NMLC-032591A	Apache et al	Apache
W2NE4 & E2NW4 Sec. 21	fee	Weatherly	Stephens & Johnson	Stephens & Johnson
W2NW4 Sec. 22	fee	Argo A (NEDU)	Apache	Apache

VI. There are 55 existing wells within a half-mile radius. Thirty-eight of the wells penetrated the Drinkard (top = 6,372'). The penetrators include 31 oil or gas wells, 4 water injection wells, 2 P&A wells, and 1 water supply well. A table abstracting the well construction details and histories of the penetrators are in

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Exhibit F. Diagrams of the 2 P&A penetrators are in Exhibit G. The 55 existing wells (+ 3 approved, but not yet drilled, wells) and their distances from the #92 are:

API	OPERATOR	WELL	TYPE	UNIT-SECTION	TVD	CURRENT ZONE	FEET FROM WBDU 92
3002538378	Apache	State Land 15 016	O	O-16	4135	Penrose Skelly; Grayburg	332
3002539605	Apache	State Land 15 018	O	O-16	4404	Penrose Skelly; Grayburg	407
3002537496	Apache	State Land 15 012	G	P-16	4415	Penrose Skelly; Grayburg	657
3002520311	Apache	WBDU 091	O	O-16	7300	Eunice; Bli-Tu-Dr, North	663
3002506632	Apache	WBDU 088	O	O-16	6660	Eunice; Bli-Tu-Dr, North	699
3002506633	Apache	WBDU 089	O	P-16	6665	Eunice; Bli-Tu-Dr, North	719
3002537201	Apache	WBDU 079	O	J-16	7310	Eunice; Bli-Tu-Dr, North	808
3002539300	Apache	WBDU 115	O	P-16	7225	Eunice; Bli-Tu-Dr, North	866
3002537916	Apache	State DA 013	O	I-16	4398	Penrose Skelly; Grayburg	923
3002539449	Apache	State Land 15 017	O	P-16	4415	Penrose Skelly; Grayburg	1008
3002537482	Apache	State Land 15 013	G	O-16	4392	Penrose Skelly; Grayburg	1037
3002539963	Apache	WBDU 114	O	P-16	6970	Eunice; Bli-Tu-Dr, North	1045
3002506634	Apache	WBDU 090	O	P-16	8261	Eunice; Bli-Tu-Dr, North	1162

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3002506618	Apache	WBDU 077	O	J-16	6720	Eunice; Bli-Tu-Dr, North	1255
3002506619	Apache	WBDU 078	I	I-16	6644	Eunice; Bli-Tu-Dr, North	1263
3002538415	Apache	WBDU 084	O	K-16	6835	Eunice; Bli-Tu-Dr, North	1366
3002535765	Apache	State DA 008	O	J-16	4200	Penrose Skelly; Grayburg	1384
3002537536	Apache	WBDU 093	O	O-16	7102	Eunice; Bli-Tu-Dr, North	1410
3002536786	Apache	State DA 010	O	J-16	4345	Penrose Skelly; Grayburg	1418
3002506617	Apache	State DA 005	O	I-16	8225	Penrose Skelly; Grayburg	1466
3002506722	Stephens & Johnson	Weatherly 004	O	B-21	6612	Eunice; Bli-Tu-Dr, North	1699
3002539381	Apache	WBDU 127	O	A-21	6878	Eunice; Bli-Tu-Dr, North	1701
3002506716	Apache	WBDU 095	O	A-21	6630	Eunice; Bli-Tu-Dr, North	1710
3002537243	Apache	NEDU 721	O	M-15	6850	Eunice; Bli-Tu-Dr, North	1715
3002538231	Apache	WBDU 082	O	J-16	6875	Eunice; Bli-Tu-Dr, North	1721
3002539151	Apache	Elliott A 010	O	A-21	4410	Penrose Skelly; Grayburg	1866
3002536806	Apache	NEDU720	O	D-22	6850	Eunice; Bli-Tu-Dr, North	1937
3002506608	Apache	Argo 012	O	M-15	8035	Penrose Skelly; Grayburg	1958
3002506631	Apache	State Land 15 002	O	N-16	6700	Penrose Skelly; Grayburg	1967

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3002509911	Apache	NEDU 702	O	M-15	6646	Eunice; Bli-Tu-Dr, North	2016
3002535516	Apache	State DA 007	O	K-16	4200	Penrose Skelly; Grayburg	2016
3002542537	Apache	WBDU 164	O	H-16	7000 (plan)	Eunice; Bli-Tu-Dr, North	2040
3002535523	Apache	Weatherly 21 002	O	B21	7152	Penrose Skelly; Grayburg	2045
3002539686	Apache	Argo A 014	O	D-22	4400	Penrose Skelly; Grayburg	2081
3002537834	Chevron	Harry Leonard NCT E 008	P&A	H-16	4300	Penrose Skelly; Grayburg	2082
3002541549	Apache	WBDU 154	I	N-16	6952	Eunice; Bli-Tu-Dr, North	2123
3002506718	John H Hendrix	Elliott A 003	P&A	A-21	7859	Eunice; Bli-Tu-Dr, North	2143
3002538230	Apache	WBDU 081	O	K-16	6793	Eunice; Bli-Tu-Dr, North	2170
3002536646	Apache	Weatherly 21 005	O	C-21	4250	Penrose Skelly; Grayburg	2226
3002506616	Apache	WBDU 076	I	K-16	6654	Eunice; Bli-Tu-Dr, North	2229
3002538802	Stephens & Johnson	Weatherly 009	O	B-21	6696	Eunice; Bli-Tu-Dr, North	2247
3002509916	Apache	NEDU701	O	L-15	6654	Eunice; Bli-Tu-Dr, North	2266
3002506624	Chevron	Harry Leonard NCT E 005	O	H-16	8220	Penrose Skelly; Grayburg	2290
3002506606	Apache	Argo 010	P&A	L-15	8015	Hare; San Andres (Gas)	2312
3002542232	Apache	NEDU 639	O	L-15	7450 (plan)	Eunice; Bli-Tu-Dr, North	2329

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3002537365	Apache	State Land 15 008	O	N-16	4435	Penrose Skelly; Grayburg	2355
3002537238	Apache	NEDU 629	O	L-15	6900	Eunice; Bli-Tu- Dr, North	2394
3002536787	Apache	State DA 011	O	K-16	4350	Penrose Skelly; Grayburg	2402
3002506605	Apache	NEDU 723	O	M-15	8179	Eunice; Bli-Tu- Dr, North	2404
3002539557	Apache	Argo 013	O	M-15	4409	Penrose Skelly; Grayburg	2443
3002542233	Apache	NEDU 724	O	M-15	7450 (plan)	Eunice; Bli-Tu- Dr, North	2455
3002506620	Chevron	Harry Leonard NCT E 001	O	G-16	6670	Penrose Skelly; Grayburg	2480
3002506621	Apache	WBDU 056	I	H-16	6780	Eunice; Bli-Tu- Dr, North	2482
3002506721	Stephens & Johnson	Weatherly 003	O	C-21	6624	Eunice; Bli-Tu- Dr, North	2502
3002534888	Apache	NEDU 713	O	L-15	6790	Eunice; Bli-Tu- Dr, North	2519
3002509928	Apache	NEDU 801	O	D-22	6636	Eunice; Bli-Tu- Dr, North	2545
3002506741	Apache	Argo A 009	W	D-22	8035	Hare; San Andres (Gas)	2640
3002539152	Apache	Elliott A 011	O	H-21	5656	Penrose Skelly; Grayburg	2663

- VII. 1. Average injection rate will be \approx 2,500 bwpd.
 Maximum injection rate will be \approx 3,000 bwpd.

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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 $\approx 1,200$ psi. Maximum injection pressure will be 1,280 psi ($= 0.2$ psi/ft x 6,400' (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.

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

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30-025-37535

5. Apache currently has 109 active oil 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 Drinkard is Leonardian in age, 304' thick, and consists of tan to dark gray shallow marine carbonates, many of which have been dolomitized. Core filling and replacement anhydrite are common in the limestone. Nodular anhydrite is common in the dolomite. Five per cent porosity cut off is used to determine pay zones. Impermeable shale and carbonates vertically confine the interval.

There are currently 155 Drinkard injection wells in New Mexico. The West Blinebry Drinkard Unit shares its east border with Apache's Northeast Drinkard Unit. Three other similar water floods (East Blinebry Drinkard Units, Central Drinkard Unit, and Warren Blinebry Unit) are within a mile of the West Blinebry Drinkard Unit. The Central Drinkard Unit has been under water flood since the 1960s. Formation depths are:

Quaternary = 0'
Rustler = 1,233'
Tansill = 2,450'
Yates = 2,590'
Seven Rivers = 2,837'
Bowers sand = 3,178'
Queen = 3,407'
Grayburg = 3,714'
San Andres = 3,994'
Glorieta = 5,122'
Blinebry = 5,592'
Tubb = 6,069'
Drinkard = 6,372'
Drinkard injection interval = 6,400' - 6,640'
Abo = 6,676'
PBSD = 7,267'
TD = 7,284'

APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 92
910' FSL & 1330' FEL
SEC. 16, T. 21 S., R. 37 E.
LEA COUNTY, NM

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There are 3 water wells within a 1-mile radius according to the State Engineer (Exhibit H). Deepest of the three is 120'. None were found during a November 11, 2015 field inspection.

Two wells within a mile, but that are not in the State Engineer's database, were found and sampled. One well is in the Finish Line Trailer Park, 3000' southeast in SENE Section 21. The other is 5000' southeast in NWNW Section 27. Their analyses are in Exhibit I. Depths are unknown, but are likely in the red beds. (Ogallala is >3 miles northeast.)

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

There will be >5,100' of vertical separation and 1,217' of salt and anhydrite between the bottom of the only likely underground fresh water source and the top of the injection interval. Produced water is currently being injected (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.

X. DSN/SDL and DLL/MSFL logs were run in 2006 and are on file with NMOCD.

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

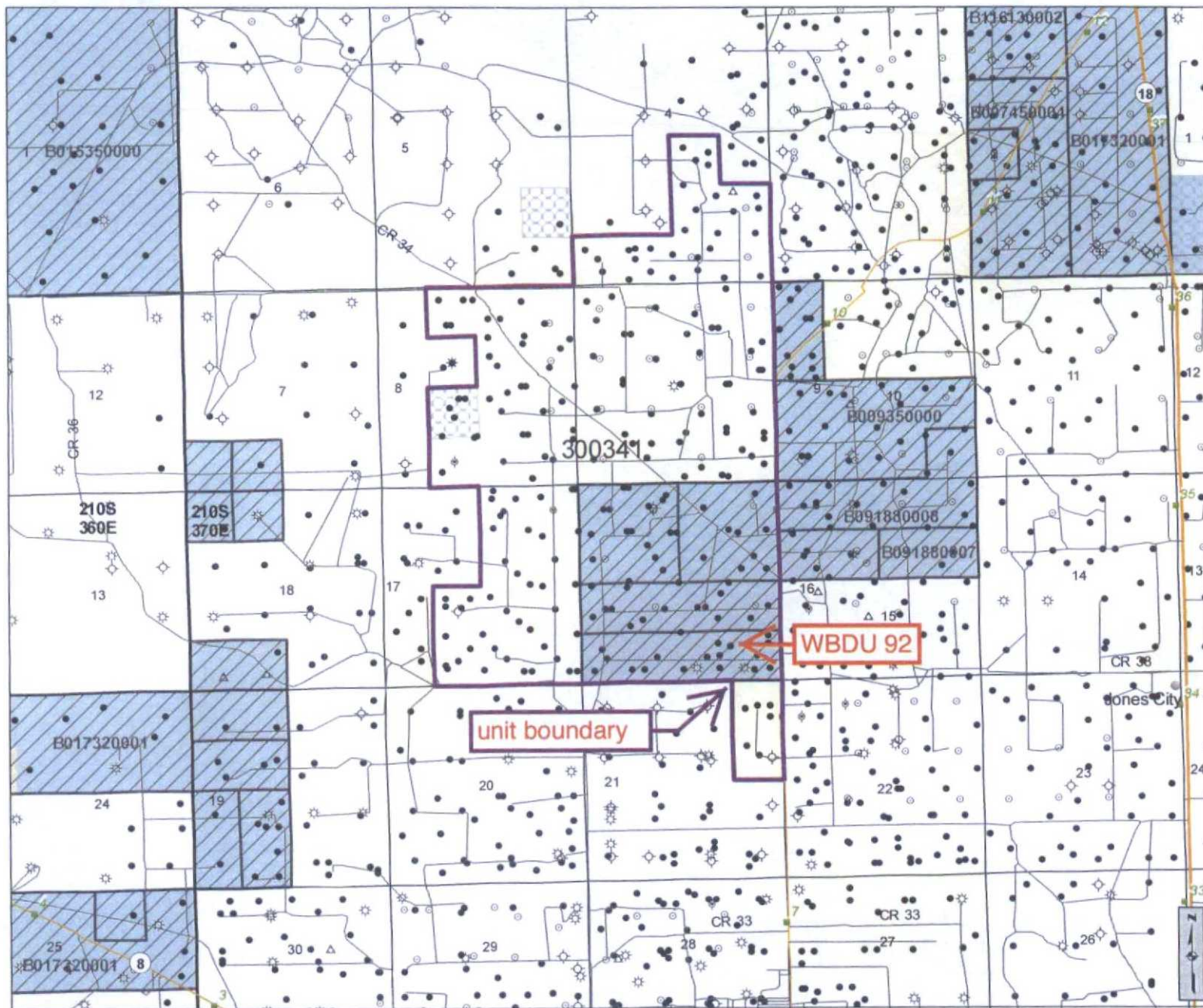
XII. Apache is not aware of any geologic or engineering data that may indicate the injection interval is in hydrologic connection with any underground sources of water. Closest Quaternary faults are >100 miles west and southwest (Exhibit J). There are 155 active Drinkard injection wells in New Mexico. Previously approved water flood expansions (WFX-) in the unit include 854, 857, 913, 921, 922, 923, 924, and 948.

APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 92
910' FSL & 1330' FEL
SEC. 16, T. 21 S., R. 37 E.
LEA COUNTY, NM

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XIII. A legal ad (see Exhibit K) was published January 5, 2016. Notice (this application) has been sent (Exhibit L) to the surface owner (NM State Land Office), offset Drinkard operators (excluding Apache, only Stephens & Johnson), and other lessees or leasehold operating rights holders (BLM, Chevron USA, Elliott Hall Co. Utah LP, Elliott Industries Ltd. Partnership, NM State Land Office, and Oxy USA WTP LP).



Cartographic Features

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

Federal Minerals Ownership

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

State Trust Lands

- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate

State Leases

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

Oil and Gas Related Features

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

NMOC Oil and Gas Wells

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

New Mexico State Land Office

Oil, Gas and Minerals

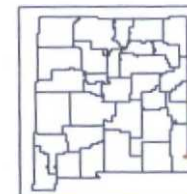
0 0.1 0.2 0.4 0.6 0.8 Miles

Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

EXHIBIT A

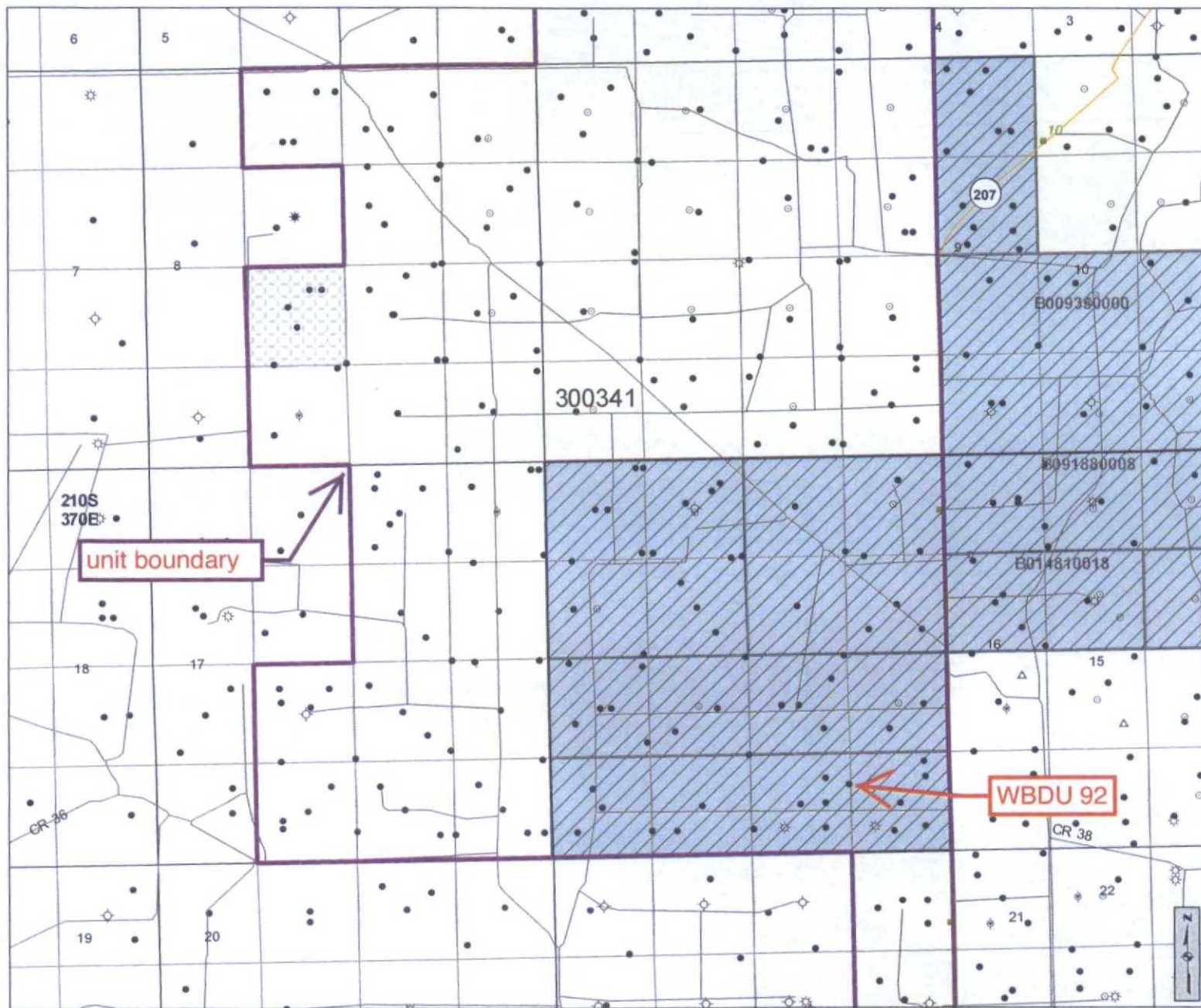
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Cartographic Features

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

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Oil and Gas Related Features

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

NMOC D Oil and Gas Wells

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

New Mexico State Land Office Oil, Gas and Minerals

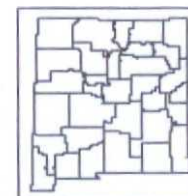
0 0.050.1 0.2 0.3 0.4
Miles

Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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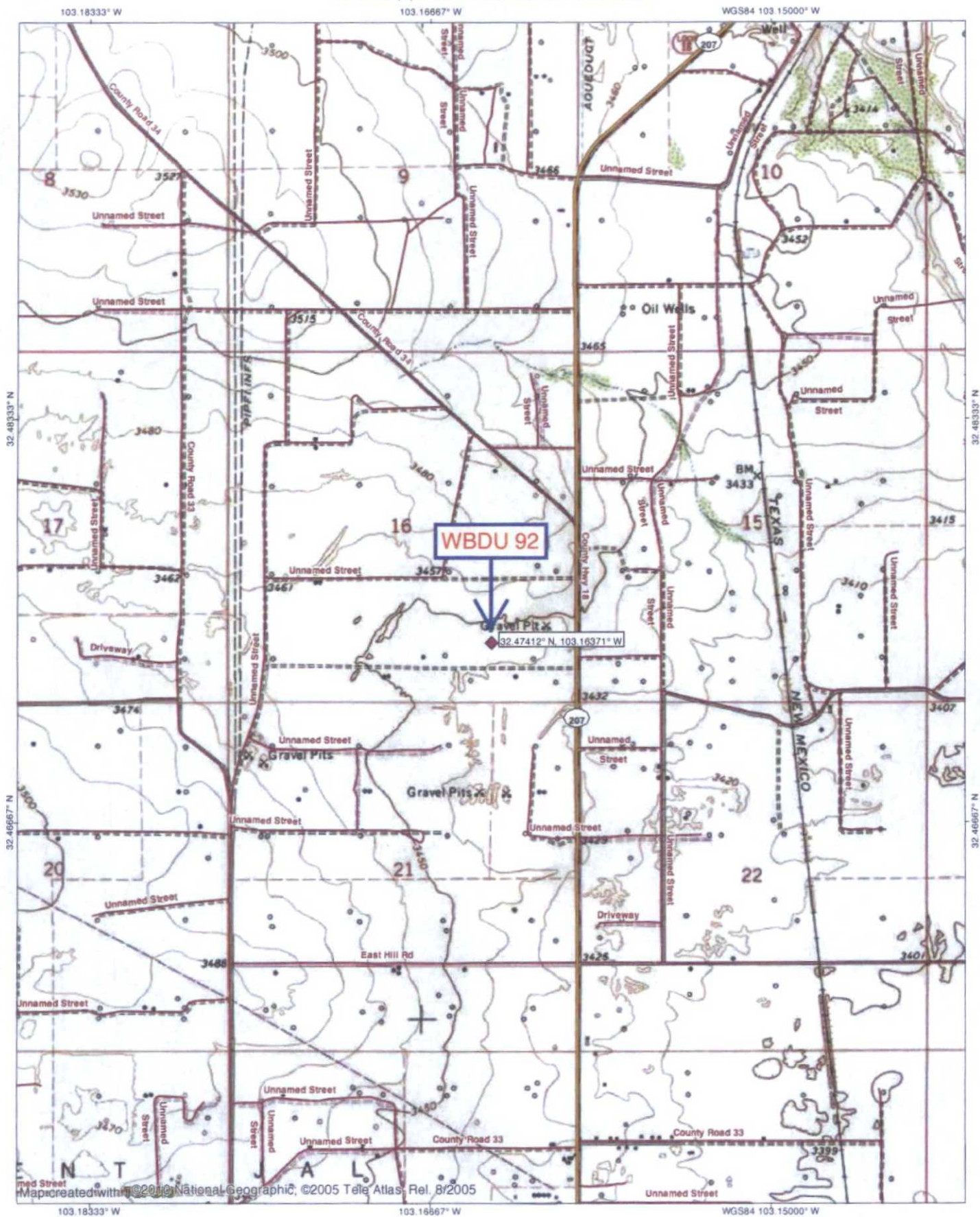


EXHIBIT A

TN MN

7'

12/31/15

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 E. ST. FRANCES DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-37535		Pool Code 19190	Pool Name Drinkard
Property Code 34938	Property Name STATE LAND 15		Well Number 9
OGRID No. 00873	Operator Name APACHE CORPORATION		Elevation 3444'

Surface Location

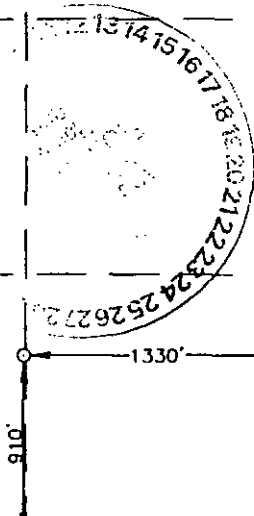
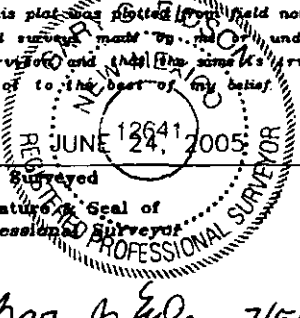
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	16	21-S	37-E		910	SOUTH	1330	EAST	LEA

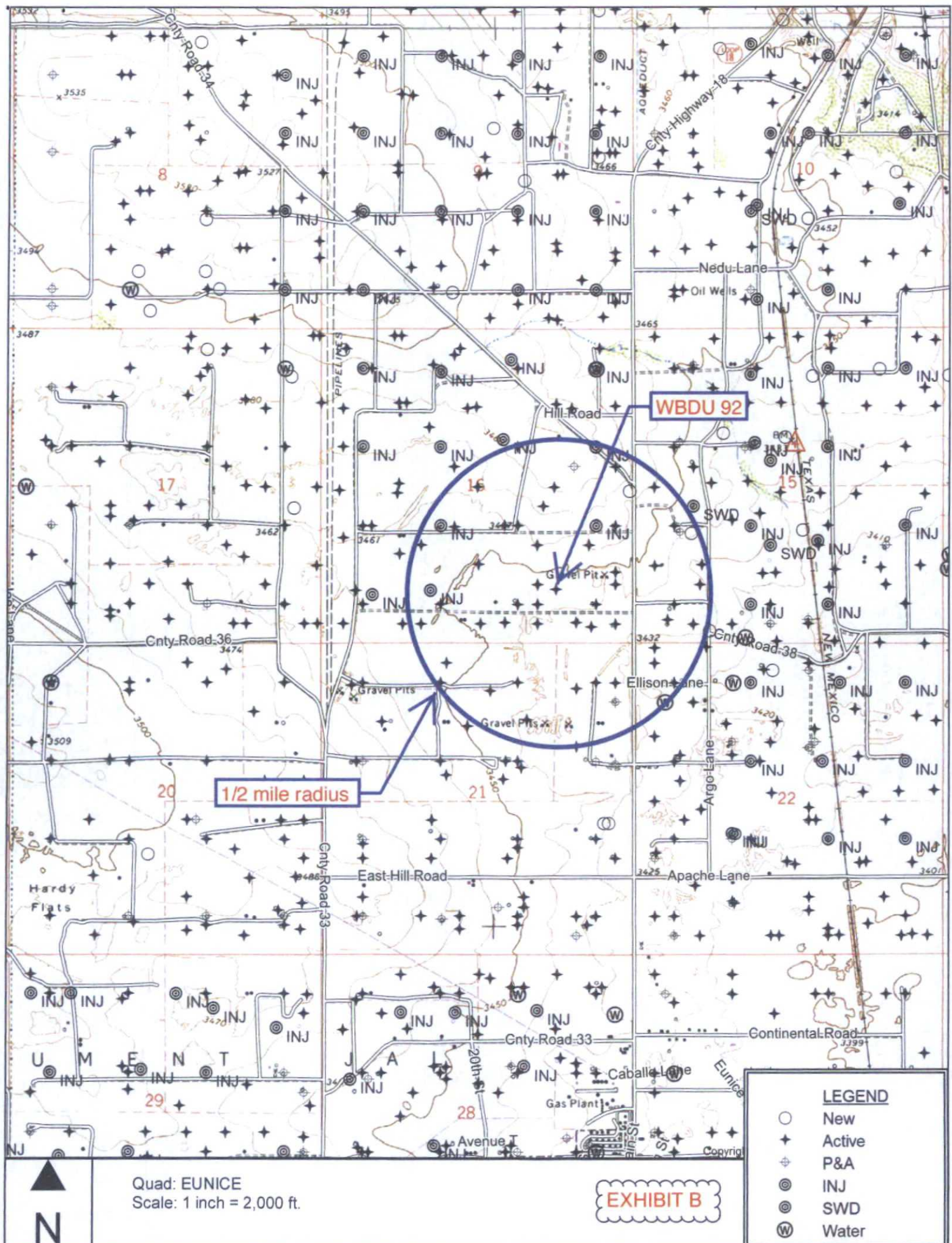
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

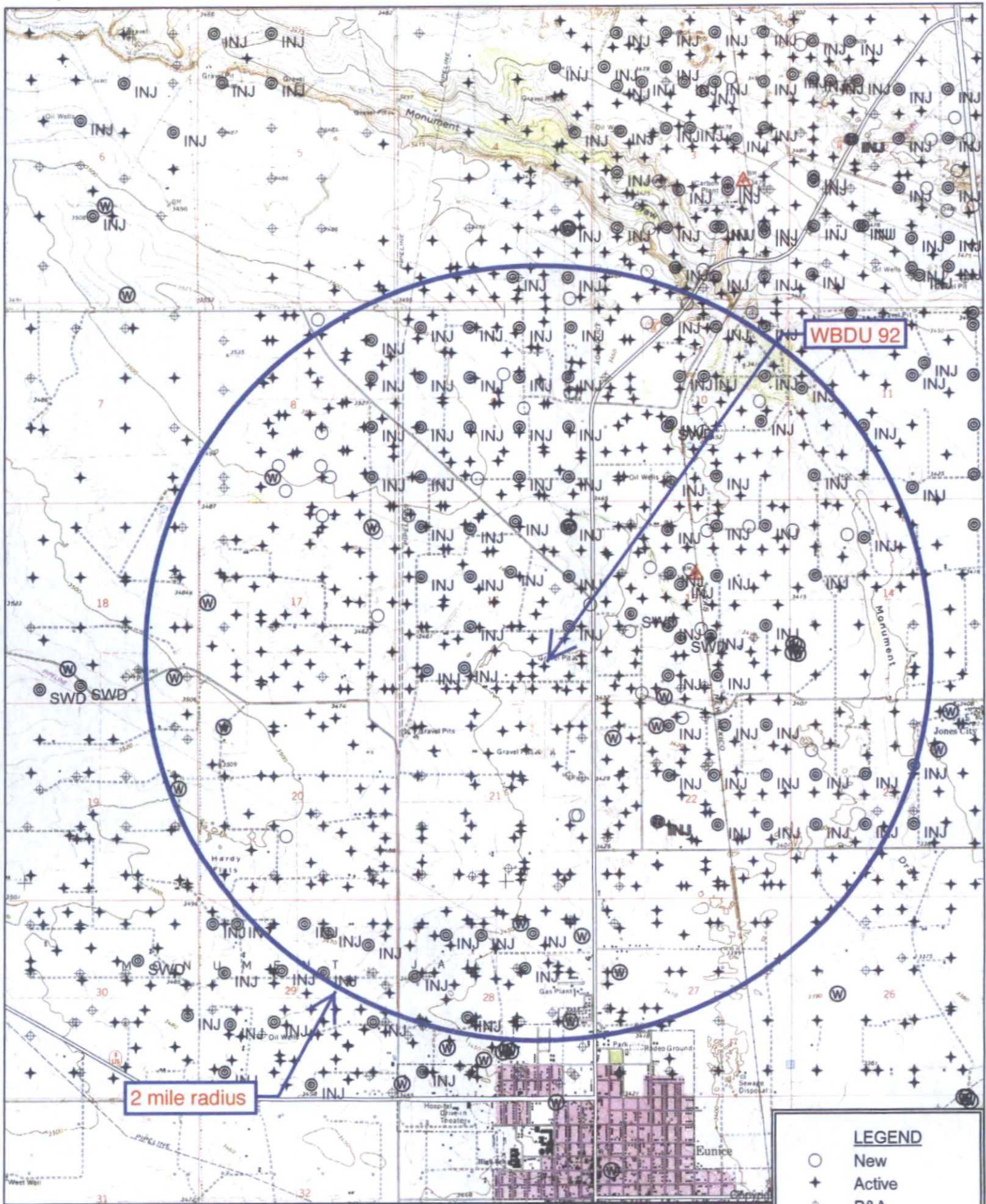
<div style="border: 1px dashed black; height: 400px; margin-bottom: 20px;"></div> <div style="text-align: center;"> <p>GEODETC COORDINATES NAD 27 NME</p> <p>Y=538145.7 N X=860844.7 E</p> <p>LAT.=32°28'26.53" N LONG.=103°09'47.78" W</p> </div> <div style="text-align: right; margin-top: 20px;">  </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p align="center">OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p align="center"><i>Elaine Linton</i></p> <p>Signature _____</p> <p>Elaine Linton _____</p> <p>Printed Name _____</p> <p>Engineer Tech. _____</p> <p>Title _____</p> <p>4/20/2006 _____</p> <p>Date _____</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p align="center">SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</i></p> <div style="text-align: center;">  </div> <p>Date Surveyed _____ LA</p> <p>Signature & Seal of Professional Surveyor _____</p> <p align="center"><i>Gary J. Edmon 7/5/05</i></p> <p align="center">05.11.0978</p> <p>Certificate No. GARY EDSON 12641</p> <p align="center">EXHIBIT A</p> </div>
--	---



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

EXHIBIT B

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



2 mile radius

WBDU 92

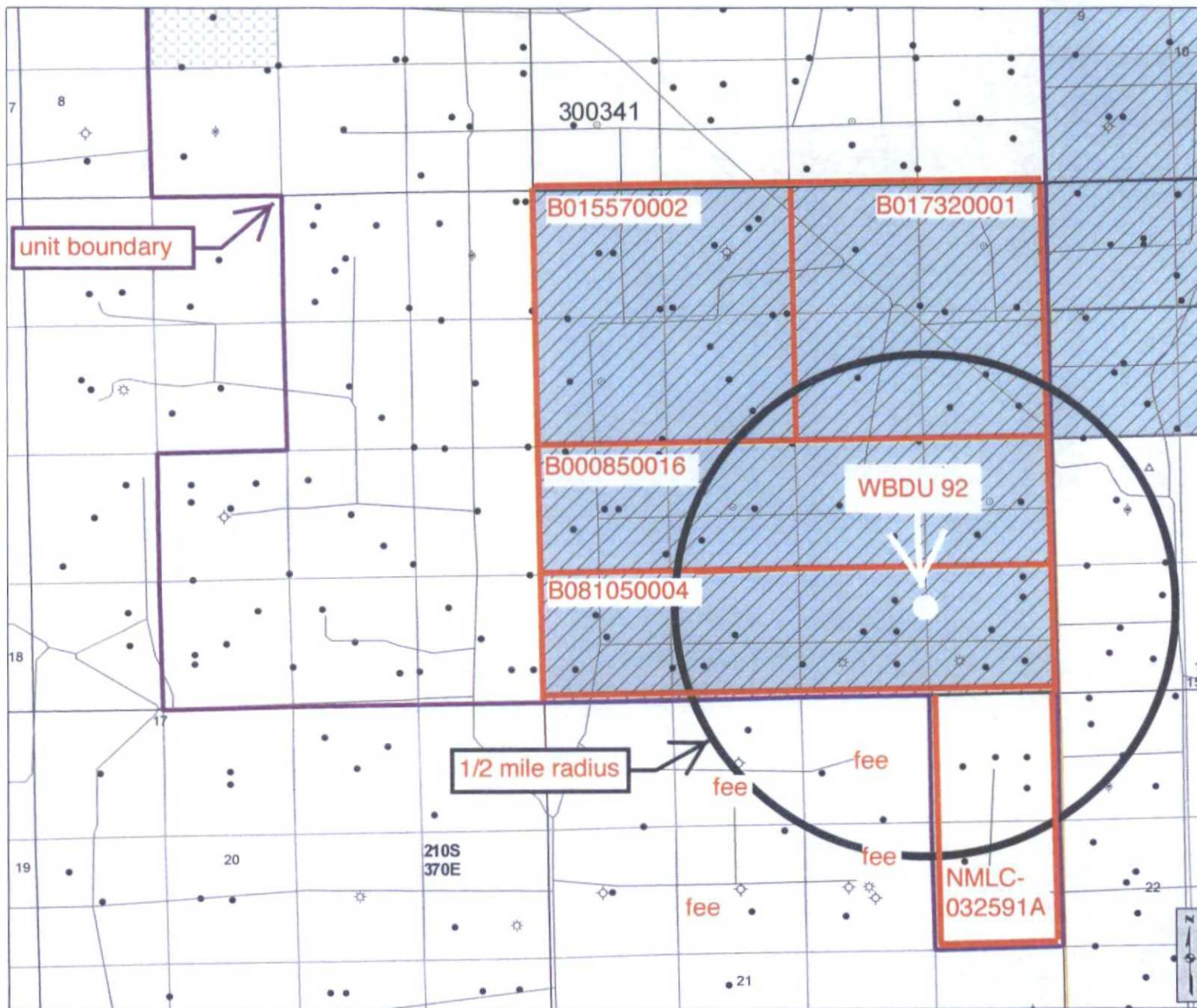


Quad: EUNICE
Scale: 1 inch = 3,278 ft.

EXHIBIT C

LEGEND

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



Cartographic Features

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New Mexico State Land Office Oil, Gas and Minerals

0 0.04 0.09 0.18 0.27 0.36 Miles

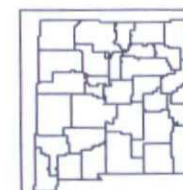
Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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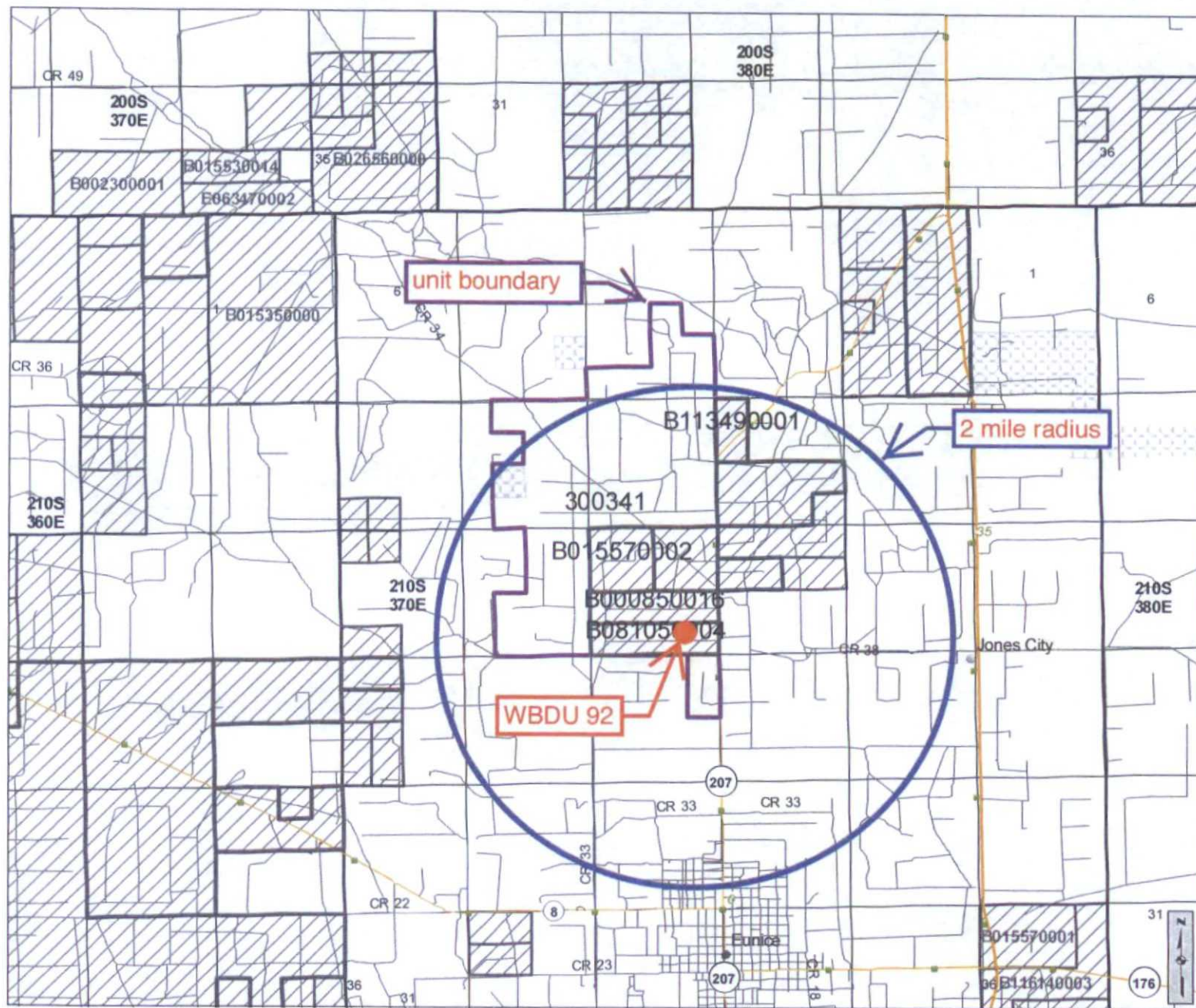
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EXHIBIT D



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

0 0.25 0.5 1 1.5 2 Miles
 Universal Transverse Mercator Projection, Zone 13
 1983 North American Datum

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Cartographic Features

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- City, Town or Village
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- SLO District Boundary
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- Subsurface Estate
- Surface and Subsurface Estate

State Leases

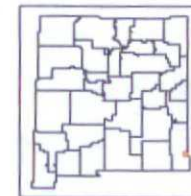
- Oil and Gas Leases
- Agricultural Leases
- Commercial Leases
- Minerals Leases
- Not Available for Oil and Gas Leasing
- Oil and Gas Leasing Influenced by Restriction

Oil and Gas Related Features

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- NMOCD Order R-111-P
- Potash Enclave Outline

NMOCD Oil and Gas Wells

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



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EXHIBIT E

WELL	SPUD	TD	POOL (most recent)	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
WBDU 091	9/19/63	7300	Eunice; Bli-Tu-Dr, North	O	17.5	13.325	252	300 sx	surface	circulated 25 sx
30-025-20311					11	8.625	2990	665 sx	surface	circulated 100 sx
O-16-21S-37E					7.875	5.5	7298	1005 sx	1120	temp survey
WBDU 088	6/16/47	6660	Eunice; Bli-Tu-Dr, North	O	17.5	13.325	223	250 sx	no report	no report
30-025-06632					11	8.625	2866	1600 sx	no report	no report
O-16-21S-37E					7.75	5.5	6659	500 sx	no report	no report
WBDU 089	6/22/47	6665	Eunice; Bli-Tu-Dr, North	O	17.5	13.325	219	250 sx	no report	no report
30-025-06633					11	8.625	2864	1700 sx	no report	no report
P-16-21S-37E					7.875	5.5	6664	400 sx	no report	no report
WBDU 079	6/24/05	7310	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1289	600 sx	surface	circulated 92 sx
30-025-37201					7.875	5.5	7310	1600 sx	270	CBL
J-16-21S-37E										

WBDU 115	5/7/10	7225	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1273	650 sx	surface	circulated
30-025-39300					7.875	5.5	7225	1300 sx	surface	circulated
P-16-21S-37E										
WBDU 114	12/19/10	6970	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1297	664 sx	surface	circulated
30-025-39963					7.875	5.5	6952	1195	surface	no report
P-16-21S-37E										
WBDU 090	4/12/52	8261	Eunice; Bli-Tu-Dr, North	O	17	13.325	258	250 sx	surface	circulated
30-025-06634					11	8.625	2681	1500 sx	surface	circulated
P-16-21S-37E					7.75	5.5	8259	400 sx	3375	temp survey
WBDU 077	7/4/47	6720	Eunice; Bli-Tu-Dr, North	O	17.25	13.325	213	200 sx	surface	circulated
30-025-06618					11	8.625	2807	1550 sx	580	temp survey
J-16-21S-37E					7.375	5.5	6630	500 sx	2845	temp survey

WBDU 078	8/12/47	6644	Eunice; Bli-Tu-Dr, North	I	17.25	13.325	215	200 sx	surface	circulated
30-025-06619					11	8.625	2807	1550 sx	1350	no report
I-16-21S-37E					7.375	5.5	6644	500 sx	3165	no report
WBDU 084	7/3/07	6835	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1265	650 sx	surface	circulated
30-025-38415					7.875	5.5	6835	1400 sx	890	CBL
K-16-21S-37E										
WBDU 093	12/14/05	7102	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1225	550	surface	circulated 129 sx
30-025-37536					7.875	5.5	7102	1250 sx	1940	CBL
O-16-21S-37E										
State DA 005	3/4/52	8225	Paddock	O	17.5	13.325	258	200 sx	surface	circulated
30-025-06617					11	8.625	2820	1500 sx	565	temp survey
I-16-21S-37E					6.75	5.5	8225	500 sx	3448	temp survey

Weatherly 004	7/7/47	6612	Eunice; Bli-Tu-Dr, North	O	17.25	13.375	210	225 sx	surface	circulated
30-025-06722					11	8.625	2858	1200 sx	surface	circulated
B-21-21S-37E					7.75	5.5	6610	700 sx	2300	calculated
WBDU 127	9/6/09	6878	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1254	650 sx	surface	circulated
30-025-39381					7.875	5.5	6878	1250 sx	190	CBL
A-21-21S-37E										
WBDU 095	6/25/47	6630	Eunice; Bli-Tu-Dr, North	O	no report	13.325	318	300 sx	no report	no report
30-025-06716					no report	9.625	2848	1000 sx	no report	no report
A-21-21S-37E					no report	7	6625	500 sx	no report	no report
NEDU 721	9/16/05	6850	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1275	575 sx	surface	circulated
30-025-37243					7.875	5.5	6850	1300 sx	408	CBL
M-15-21S-37E										

WBDU 082	4/8/07	6875	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1285	650 sx	surface	circulated
30-025-38231					7.875	5.5	6875	1250 sx	320	CBL
J-16-21S-37E										
NEDU 720	10/16/04	6850	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1195	600 sx	surface	circulated 130 sx
30-025-36806					7.875	5.5	6850	1150 sx	460	no report
D-22-21S-37E										
Argo 012	12/15/51	8035	Penrose Skelly; Grayburg	O	17.5	13.325	227	250 sx	surface	circulated 60 sx
30-025-06608					11	8.625	2882	1900 sx	surface	circulated 300 sx
M-15-21S-37E					7.875	5.5	8033	983 sx	3480	CBL
State Land 15 002	3/17/47	6700	Penrose Skelly; Grayburg	O	17	13.325	320	300 sx	no report	no report
30-025-06631					11	8.625	2864	1600 sx	no report	no report
N-16-21S-37E					7.75	5.5	6699	500 sx	4670	calculation

NEDU 702	8/8/47	6646	Eunice; Bli-Tu-Dr, North	O	17.5	13.325	316	250 sx	surface	circulated
30-025-09911					11	8.625	2826	800 sx	surface	circulated
M-15-21S-37E					7.875	5.5	6529	500 sx	3650	estimated
Weatherly 21 002	4/27/02	7152	Penrose Skelly; Grayburg	O	14.75	11.75	395	305 sx	surface	circulated 25 sx
30-025-35523					11	8.625	3003	850 sx	surface	circulated 50 sx
B-21-21S-37E					7.875	5.5	7152	750 sx	2690	temp survey
WBDU 154	11/6/14	6952	Eunice; Bli-Tu-Dr, North	I	11	8.625	1276	575 sx	surface	circulated 182 sx
30-025-41549					7.875	5.5	6955	1060 sx	surface	circulated 250 sx
N-16-21S-37E										
Elliott A 003	1/26/52	7845	Blinbry Oil & Gas (Oil)	P&A	no report	13.325	260	300 sx	surface	circulated
30-025-06718					no report	9.625	2942	1850 sx	no report	no report
A-21-21S-37E					no report	5.5	7841	395 sx	5840	temp survey

WBDU 081	2/28/07	6793	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1255	600 sx	surface	circulated
30-025-38230					7.875	5.5	6793	1200 sx	surface	CBL & circulated
K-16-21S-37E										
WBDU 076	5/14/47	6654	Eunice; Bli-Tu-Dr, North	I	17.5	13.375	214	200 sx	<0	did not circulate
30-025-06616					11	8.625	2995	1250 sx	1325	temp survey
K-16-21S-37E					7.375	5.5	6654	500 sx	2850	temp survey
Weatherly 009	7/18/08	6696	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1222	550 sx	surface	circulated 42 sx
30-025-38802					7.875	5.5	6694	1200 sx	2000	no report
B-21-21S-37E										
NEDU 701	10/10/47	6654	Eunice; Bli-Tu-Dr, North	O	no report	13.325	224	210 sx	surface	circulated 25 sx
30-025-09916					no report	8.625	2875	800 sx	surface	no report
L-15-21S-37E					no report	5.5	6652	600 sx	3250	estimated

Harry Leonard NCT E 005	6/22/52	8220	Penrose Skelly; Grayburg	O	17.25	12.75	268	325 sx	surface	circulated
30-025-06624					11	8.625	2799	1100 sx	2290	temp survey
H-16-21S-37E					7.875	5.5	7999	131 sx	7540	temp survey
Argo 010	7/19/51	8015	Hare; San Andres (Gas)	P&A	17.25	13.325	241	250 sx	surface	circulated 50 sx
30-025-06606					11	8.625	2907	1700 sx	surface	circulated 287 sx
L-15-21S-37E					7.875	5.5	8012	875 sx	2660	TOL
NEDU 629	6/25/05	6900	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1200	575 sx	surface	circulated
30-025-37238					7.875	5.5	6900	1300 sx	130	CBL
L-15-21S-37E										
NEDU 723	5/29/51	8179	Eunice; Bli-Tu-Dr, North	O	17.25	13.325	225	250 sx	surface	circulated
30-025-06605					11	8.625	2917	1700 sx	surface	circulated
M-15-21S-37E					7.875	5.5	8000	850sx	2701	CBL

Harry Leonard NCT E 001	9/13/47	6670	Penrose Skelly; Grayburg	O	17.25	13.325	294	300 sx	surface	circulated
30-025-06620					12.25	9.625	2950	1300 sx	1345	temp survey
G-16-21S-37E					8.75	7	6610	700 sx	1360	temp survey
WBDU 056	11/24/47	6780	Blinebry Oil & Gas (Oil)	I	17.5	13.325	301	300 sx	surface	circulated
30-025-06621					12.25	9.625	2952	1300 sx	1370	temp survey
H-16-21S-37E					8.75	7	6547	700 sx	2715	temp survey
					6.25	4.5	6765	670 sx	surface	CBL
Weatherly 003	9/4/47	6624	Blinebry Oil & Gas (Oil)	O	17	12.75	250	200 sx	no report	no report
30-025-06721					12	8.625	2900	1200 sx	no report	no report
C-21-21S-37E					8.75	5.5	6624	500 sx	no report	no report
NEDU 713	9/25/00	6790	Eunice; Bli-Tu-Dr, North	O	12.25	8.625	1245	460 sx	surface	circulated 121 sx
30-025-34888					7.875	5.5	6790	1525 sx	surface	circulated 156 sx
L-15-21S-37E										

NEDU 801	8/19/47	6636	Eunice; Bli-Tu-Dr, North	O	17.25	13.325	210	250 sx	surface	circulated 50 sx
30-025-09928					11	8.625	1223	600 sx	surface	circulated
D-22-21S-37E					7.875	5.5	6624	800 sx	2734	calculated
Argo A 009	9/9/51	8035	Hare; San Andres (Gas)	W	17.25	13.325	218	250 sx	surface	circulated
30-025-06741					11	8.625	2900	1775 sx	surface	circulated
D-22-21S-37E					7.875	5.5	8025	1125 sx	2712	no report

Apache

WELL BORE INFO.

spud: 7-19-51
plug: 11-1-11

LEASE NAME	Argo (NEDU 712S)
WELL #	10
API #	30-025-06606
COUNTY	Lea

13 3/8" 48# @ 241'
w/250 sx to surf

Casing leak identified & sqzd to surf
w/ 33.5 bbls of cmt above 345' in 8 5/8" csg

8 5/8" 32# @ 2907'
w/1700 sx to surf

CIBP @ 3960' w/ 35 sx TOC @ 3830'
SA perfs @ 4016'-4100'

CIBP @ 6375' w/ 35' cmt
DI perfs @ 6421'-6498'
DI perfs @ 6419'-6481'
CICR @ 6530' w/ 250 sx
Casing leaks @ 6550'-6680'
CICR @ 6680'
Abo perfs @ 6686'-7214'
CIBP @ 7600' w/ 1sx cmt
Hare perfs @ 7647'-7960'

5 1/2" 15.5-17# liner @ 2660'-8912'
w/ 875 sx circ TOL

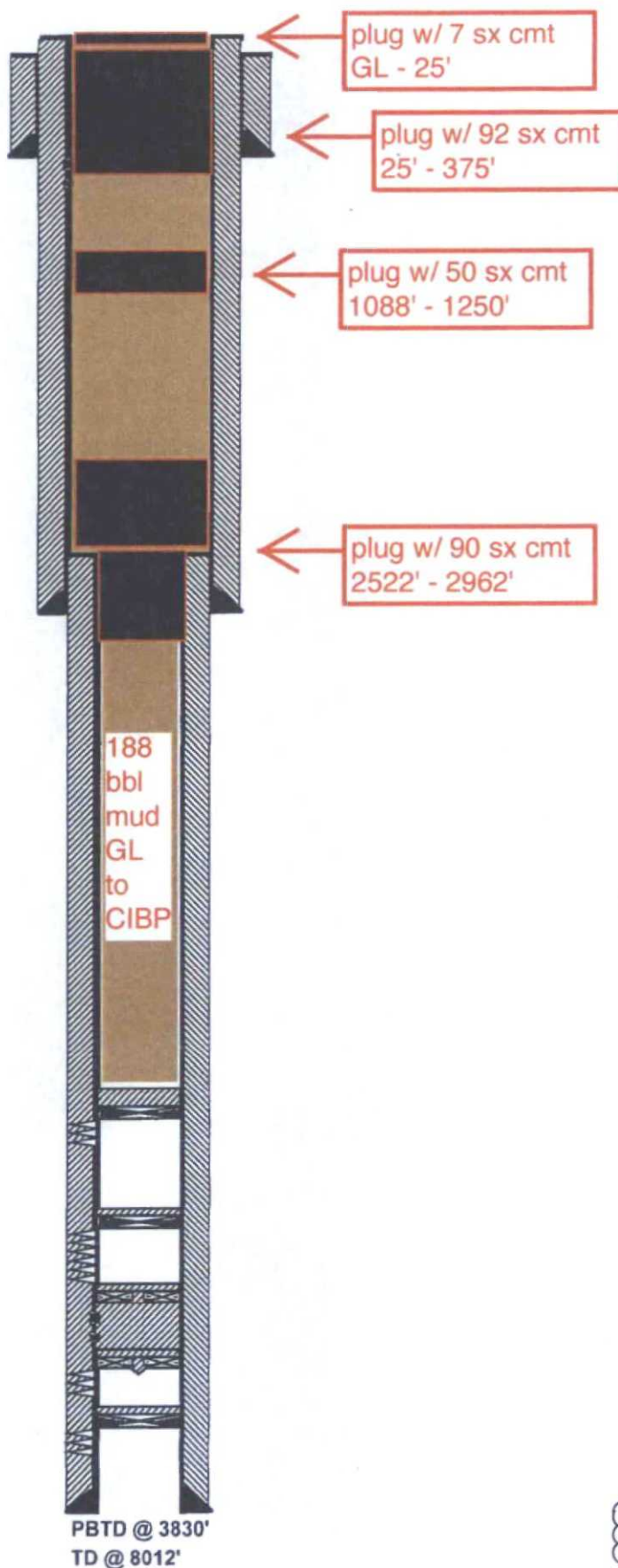


EXHIBIT G



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	County	Q Q Q						Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
	Sub-Code		basin	64	16	4	Sec	Tws							
CP 00164		LE	2	1	1	21	21S	37E	671665	3594080*		979	120		
CP 01141 POD2		LE	3	4	3	15	21S	37E	673541	3594250		1005	40		
CP 01141 POD3		LE	3	4	3	15	21S	37E	673541	3594250		1005	40		
CP 01141 POD4	within 1 mile	LE	3	4	3	15	21S	37E	673541	3594250		1005	45		
CP 00554	(1610 m)	LE		2	2	16	21S	37E	672744	3595610*		1149	80	70	10
CP 01185 POD3	beyond	LE		1	3	14	21S	37E	674592	3594620		2036	70		
CP 01185 POD1	1 mile	LE		1	3	14	21S	37E	674598	3594689		2048	70		
CP 01185 POD2	(1610 m)	LE		1	3	14	21S	37E	674623	3594674		2072	70		
CP 01185 POD4		LE		1	3	14	21S	37E	674633	3594610		2076	70		
CP 00251		LE	2	3	4	22	21S	37E	674099	3592915*		2190	103		
CP 00711		LE	4	2	2	28	21S	37E	672900	3592291*		2210	100	65	35
CP 00252		LE	4	2	4	22	21S	37E	674493	3593125*		2356	106		
CP 00162		LE	1	4	2	09	21S	37E	672621	3596915*		2440	120		
CP 00163		LE	1	4	2	09	21S	37E	672621	3596915*		2440	120		
CP 00346		LE	1	3	1	27	21S	37E	673110	3592096*		2441	90		
CP 00881		LE		4	4	22	21S	37E	674402	3592824*		2472	95	53	42
CP 00017		LE	2	1	2	27	21S	37E	674106	3592513*		2497	101		
CP 00736		LE		3	1	27	21S	37E	673211	3591997*		2561	120	76	44
CP 00242		LE	3	4	2	28	21S	37E	672708	3591889*		2590	112		
CP 00293		LE	2	4	1	27	21S	37E	673711	3592104*		2635	80		
CP 00895		LE		1	1	20	21S	37E	669957	3593956*		2655	163		
CP 00235		LE	2	2	1	23	21S	37E	675283	3594144*		2742	81		
CP 00240		LE	4	2	1	23	21S	37E	675283	3593944*		2773	72		
CP 00241		LE	4	2	1	23	21S	37E	675283	3593944*		2773	76		
CP 01026 POD1		LE	1	1	3	17	21S	37E	669809	3594958		2794	167	95	72
CP 00249		LE	2	3	2	27	21S	37E	674113	3592111*		2827	102		

*UTM location was derived from PLSS - see Help

(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	Water Column
CP 00250		LE		2	3	2	27	21S	37E	674113	3592111*	2827	101		
CP 00735		LE			2	4	28	21S	37E	672816	3591588*	2898	105		
CP 00447		LE		2	4	4	18	21S	37E	669647	3594451*	2914	95		
CP 00224		LE		4	3	3	23	21S	37E	674902	3592730*	2919	96		
CC 01999 POD1		CU		3	3	2	29	03N	36E	670385	3592502	2937	415	372	43
CP 00239		LE		1	1	2	23	21S	37E	675485	3594152*	2941	89		
CP 00236		LE		3	1	2	23	21S	37E	675485	3593952*	2970	83		
CP 00212		LE		2	2	1	14	21S	37E	675254	3595753*	2980	46		
CP 00676		LE			4	4	18	21S	37E	669548	3594352*	3015	140	106	34
CP 00014		LE		1	3	2	23	21S	37E	675492	3593749*	3019	84		
CP 00238		LE		3	3	2	23	21S	37E	675492	3593549*	3073	81		
CP 00253		LE		3	4	2	27	21S	37E	674315	3591918*	3100	101		
CP 00966 POD1		LE		1	3	4	28	21S	37E	672306	3591367	3117	154		
CP 00985 POD1		LE		4	4	2	19	21S	37E	669595	3593453	3136	160		
CP 00965 POD1	R	LE		1	3	4	28	21S	37E	672333	3591346	3136	123	60	63
CP 00965 POD2		LE		1	3	4	28	21S	37E	672273	3591336	3151	135		
CP 00322		LE				3	28	21S	37E	671818	3591366*	3196	138	73	65

Average Depth to Water: 107 feet

Minimum Depth: 53 feet

Maximum Depth: 372 feet

Record Count: 43

UTMNAD83 Radius Search (in meters):

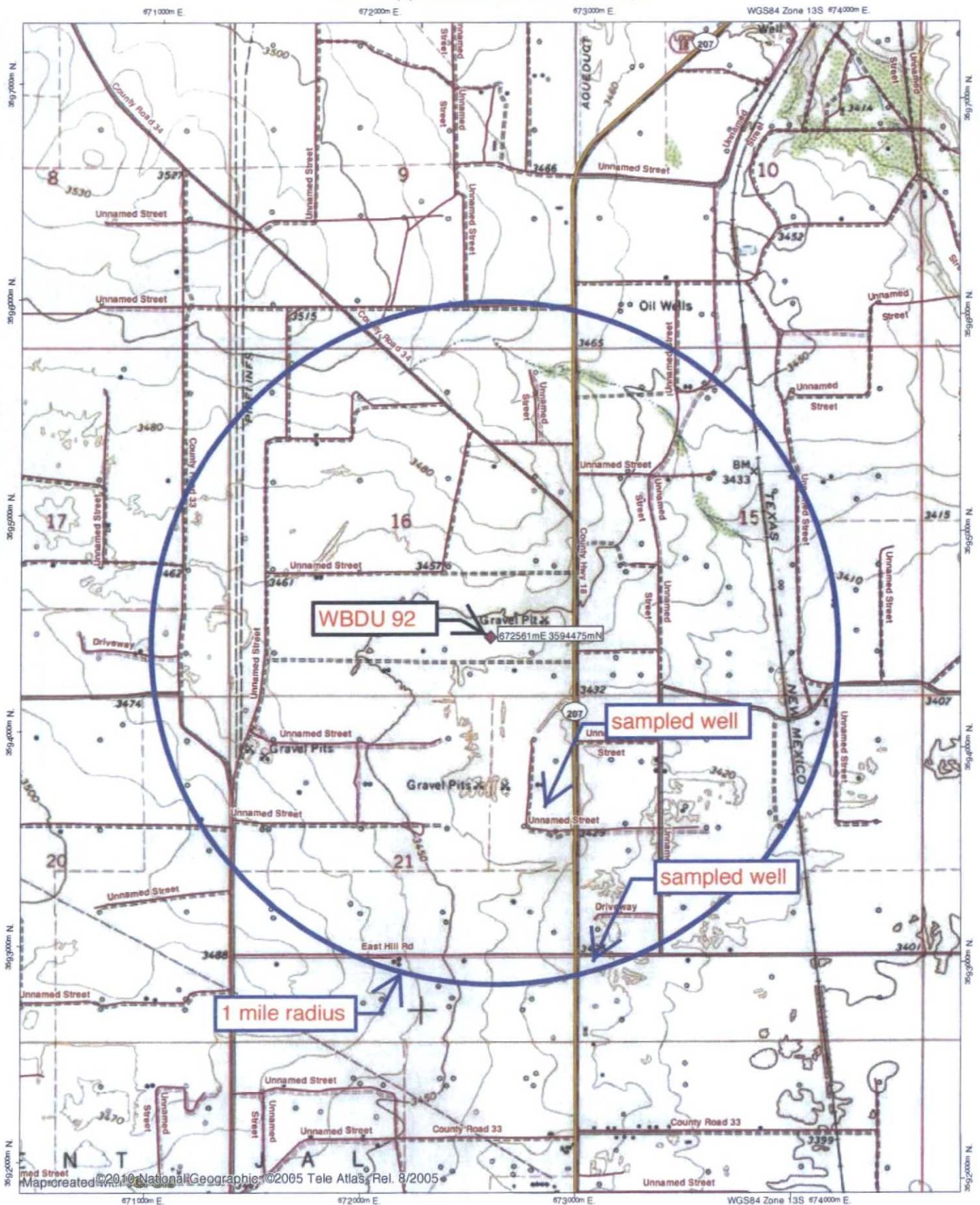
Easting (X): 672561

Northing (Y): 3594475

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.



Analytical ReportLab Order **1511713**Date Reported: **12/2/2015****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Permits West**Client Sample ID:** AP WBDU #22**Project:** Apache WBDU 92**Collection Date:** 11/11/2015 10:42:00 AM**Lab ID:** 1511713-001**Matrix:****Received Date:** 11/17/2015 2:25:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664A							Analyst: MRA
N-Hexane Extractable Material	ND	10		mg/L	1	11/23/2015	22464
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	44	10		mg/L	20	11/18/2015 6:09:02 PM	R30336
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	399	20.0		mg/L	1	11/20/2015 10:53:00 AM	22396

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		

Page 1 of 5

EXHIBIT I

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: AP WBDU #21

Project: Apache WBDU 92

Collection Date: 11/11/2015 11:58:00 AM

Lab ID: 1511713-002

Matrix:

Received Date: 11/17/2015 2:25:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664A							Analyst: MRA
N-Hexane Extractable Material	ND	11		mg/L	1	11/23/2015	22464
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	49	10		mg/L	20	11/18/2015 6:33:51 PM	R30336
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: KS
Total Dissolved Solids	412	20.0		mg/L	1	11/20/2015 10:53:00 AM	22396

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	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511713

02-Dec-15

Client: Permits West
Project: Apache WBDU 92

Sample ID	MB-22464	SampType:	MBLK		TestCode:	EPA Method 1664A				
Client ID:	PBW	Batch ID:	22464		RunNo:	30546				
Prep Date:	11/23/2015	Analysis Date:	11/23/2015		SeqNo:	932601	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10								
Silica Gel Treated N-Hexane Extrac	ND	10								

Sample ID	LCS-22464	SampType:	LCS	TestCode:	EPA Method 1664A					
Client ID:	LCSW	Batch ID:	22464	RunNo:	30546					
Prep Date:	11/23/2015	Analysis Date:	11/23/2015	SeqNo:	932602	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	39	10	40.00	0	96.5	78	114			
Silica Gel Treated N-Hexane Extrac	18	10	20.00	0	91.0	64	132			

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

Page 3 of 5

EXHIBIT I

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511713

02-Dec-15

Client: Permits West
Project: Apache WBDU 92

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R30336	RunNo:	30336					
Prep Date:		Analysis Date:	11/18/2015	SeqNo:	925732	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R30336	RunNo:	30336					
Prep Date:		Analysis Date:	11/18/2015	SeqNo:	925733	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.8	90	110			

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 | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1511713

02-Dec-15

Client: Permits West
Project: Apache WBDU 92

Sample ID	MB-22396	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	22396	RunNo:	30363					
Prep Date:	11/18/2015	Analysis Date:	11/20/2015	SeqNo:	926935	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-22396	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	22396	RunNo:	30363					
Prep Date:	11/18/2015	Analysis Date:	11/20/2015	SeqNo:	926936	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

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

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

Page 5 of 5

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

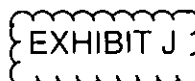
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APACHE PERMIAN

303 Veterans Airpark Lane

Midland, TX 79705 USA

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





Geologic Hazards Science Center

EHP Quaternary Faults

Search for fault:

Select a state or region map:

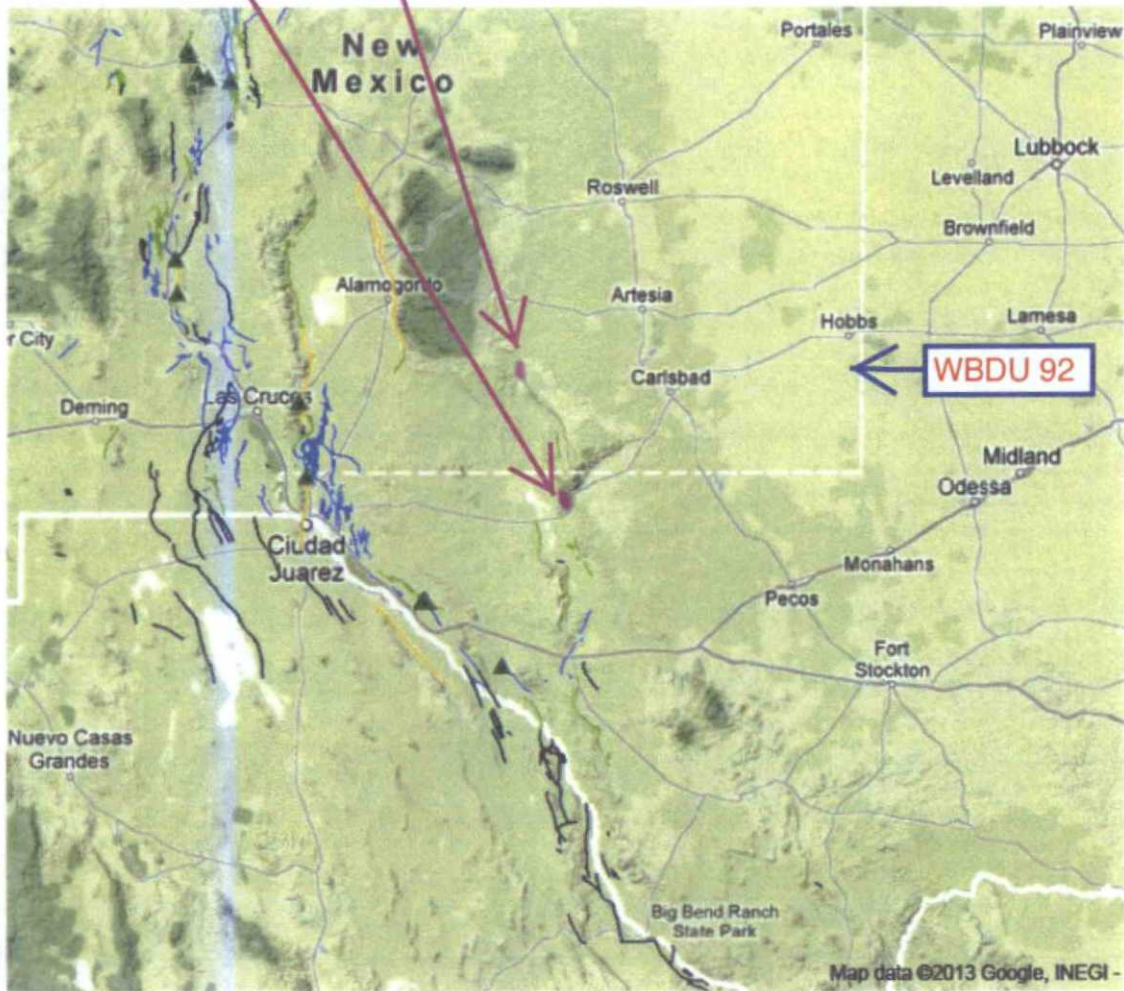


EXHIBIT J

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

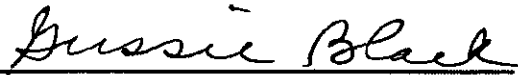
I, Todd Bailey, Editor of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
January 05, 2016
and ending with the issue dated
January 05, 2016.



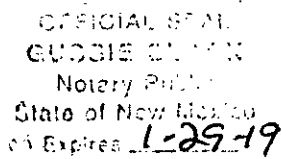
Editor

Sworn and subscribed to before me this
5th day of January 2016.

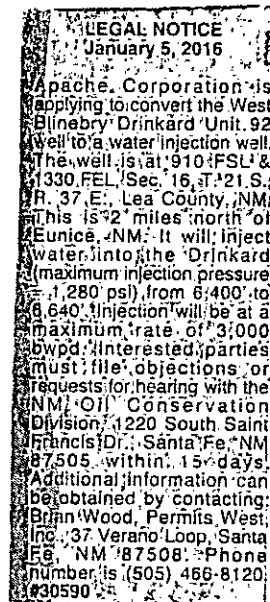


Business Manager

My commission expires
January 29, 2019
(Seal)



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



02108485

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

00168595

EXHIBIT K

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

January 4, 2016

NM State Land Office
P. O. Box 1148
Santa Fe, NM 87504-1148

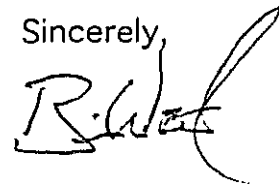
Apache Corporation is applying (see attached application) to convert its West Blinebry Drinkard Unit 92 well to a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: West Blinebry Drinkard Unit 92 (state lease) ID = 7,284'
Proposed Injection Zone: Drinkard from 6,400' to 6,640'
Location: 910' FSL & 1330' FEL Sec. 16, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 2 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

7014 2870 0001 8951 2728

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Restricted Delivery Fee (Endorsement Required)	\$
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NM SLD	
Street & Apt. No., or PO Box No.	
City, State, ZIP+4	
S.F.	
PS Form 3800, July 2013 See Reverse for Instructions	

EXHIBIT L

January 4, 2016

Chevron USA Inc.
1400 Smith
Houston TX 77002

Apache Corporation is applying (see attached application) to convert its West Blinbry Drinkard Unit 92 well to a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: West Blinbry Drinkard Unit 92 (state lease) ID = 7,284'
Proposed Injection Zone: Drinkard from 6,400' to 6,640'
Location: 910' FSL & 1330' FEL Sec. 16, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 2 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
Brian Wood

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

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

OFFICIAL USE

Postage \$ 1.86
Certified Fee 3.45
Return Receipt Fee (Endorsement Required) 2.80
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees \$ 8.11

Postmark JAN 5 87552

Sent to CHEVRON USA
Street & Apt. No. or PO Box No.
City, State, Zip+4 HOUSTON

PS Form 3800, July 2014

EXHIBIT L

January 4, 2016

BLM
620 E. Greene St.
Carlsbad NM 88220

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Postmark JAN 5 87552

Sent to BLM
Street & Apt. No. or PO Box No.
City, State, Zip+4 CARLSBAD

PS Form 3800, July 2014



January 4, 2016

Elliott Industries LP
P. O. Box 1328
Santa Fe NM 87504

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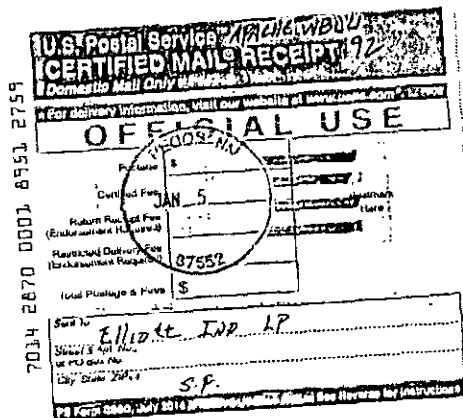


EXHIBIT L



January 4, 2016

Elliott Hall Co. UT LP
P. O. Box 1231
Ogden UT 84402

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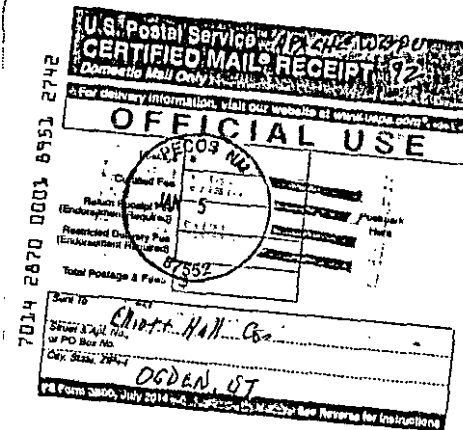
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Please call me if you have any questions.

Sincerely,

Brian Wood



January 4, 2016

Stephens & Johnson Operating Co.
 P. O. Box 2249
 Wichita Falls TX 76307

Apache Corporation is applying (see attached application) to convert its West Blinbry Drinkard Unit 92 well to a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

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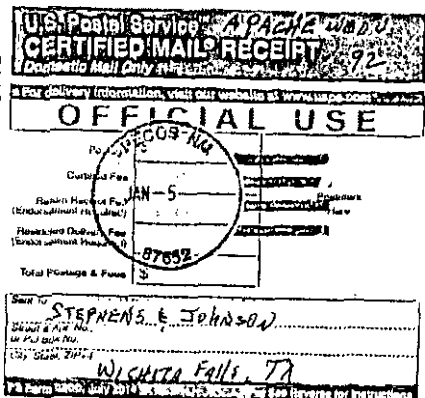


EXHIBIT L

January 4, 2016

OXY USA WTP Limited Partnership
 P. O. Box 4294
 Houston TX 77210

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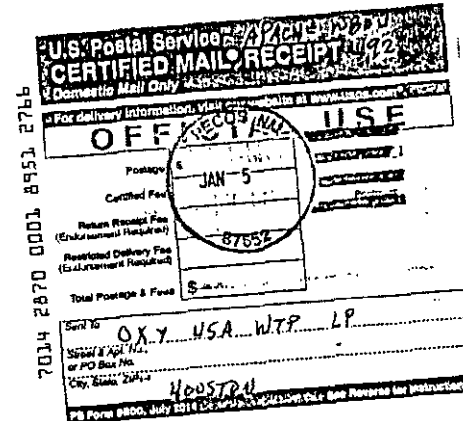
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Please call me if you have any questions.

Sincerely,

Brian Wood
 Brian Wood



Proposed Configuration

Apache Corporation

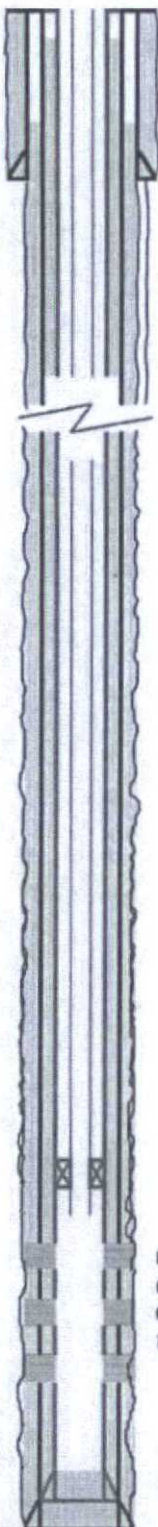
WBDU #92



WELL DIAGRAM (CURRENT CONFIGURATION)

8-5/8" CSG.
CMT. CIRC.

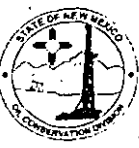
5.5" CSG.
EST. CMT TOP @
650' (CBL)



WELL NAME: WBDU #92		API: 30-025-37535			
LOCATION: 910' FSL, 1330' FEL. Sec 16, T-21S, R-37E		COUNTY: Lea Co., NM			
SPUD/TD DATE: 12/1/2005 - 12/12/2005		PREPARED BY: Bret Shapot			
COMP. DATE: 3/23/2006		UPDATED: 11/4/2015			
TD (ft): 7,284.0	KB Elev. (ft): 3455.0	KB ELEV: 11.0			
PBTD (ft): 7,219.0	Ground Elev. (ft): 3444.0				
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)	
Surface Casing	8-5/8" (Cmt. w/575x, circ)	24.00	J-55	0.00	1,197.00
Prod. Casing	5-1/2" (Cmt. w/160x, TOC @ 650', CBL)	17.00	J-55/L-80	0.00	7,284.00
Int. Casing	4-1/2" Cmt. To surf	11.60	J-55	0	7,249
Tubing					
INJECTION TUBING STRING					
ITEM	DESCRIPTION			LENGTH (FT)	Btm (FT)
1	2-3/8" 4.7 LB/FT J-55 IPC TBG			6460.0	6460.0
2	2-3/8" ON/OFF TOOL W/ 1.78 F PROFILE			1.8	6461.8
3	2-3/8" X 4-1/2" NICKLE PLATED ARROW-SET PKR			6.2	6468.0
4	2-3/8" 4.7 LB/FT J-55 IPC TBG			8.0	6476.0
5	2-3/8" PROFILE NIPPLE 1.50 R			0.9	6476.9
6	2-3/8" 4.7 LB/FT J-55 IPC TBG			6.0	6482.9
7					
8					
9					
10					
PERFORATIONS					
Form	Intervals			FT	SPF
Blinebry					
Tubb					
Drinkard	(Proposed) 6500'-6640'			70'	4

Drinkard Perfs
(Proposed)
6500'-6640'
70', 200 Shots

PSTD (ft): 7,219.0
TD (ft): 7,284.0



ORDER TYPE (WFX) / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: 12-12981

Well No. 92 Well Name(s): WBD4

API: 30-0 25-37535 Spud Date: 12/01/2015 New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 910 FSL
1330 FEL Lot _____ or Unit 0 Sec 16 Tsp 215 Rge 378 County LR9

General Location: 34 miles NW of Ely Pool: Ely 12-13 Pool No.: 22500

BLM 100K Map: 5A1 Operator: Apache Corp OGRID: 873 Contact: Brian Woods
agent

COMPLIANCE RULE 5.9: Total Wells: 3071 Inactive: 2 Fincl Assur: Y Compl. Order? MA IS 5.9 OK? Y Date: 1-28-2016

WELL FILE REVIEWED ☐ Current Status: Production

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

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement (Sx or Cf)	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	<u>12 1/4 / 8 5/8</u>	<u>1197</u>	<u>575</u>	<u>Surface / Visual</u>
Planned ___ or Existing ___ Interm/Prod				
Planned ___ or Existing ___ Interm/Prod				
Planned ___ or Existing ___ Prod/Liner				
Planned ___ or Existing ___ Liner	<u>7 7/8 / 5 1/2</u>	<u>7284</u>		<u>650 / CBL</u>
Planned ___ or Existing ___ OH / PERF	<u>6400-6640</u>			

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			<u>6380</u>
Confining Unit: Litho. Struc. Por.			<u>6760</u>
Proposed Inj Interval TOP:			<u>6400</u>
Proposed Inj Interval BOTTOM:			<u>6640</u>
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:	
Drilled TD	<u>7284</u>
PBTD	<u>7267</u>
NEW TD	
NEW PBTD	
NEW Open Hole	<input type="radio"/> or NEW Perfs <input checked="" type="radio"/>
Tubing Size	<u>2 3/8</u> in. Inter Coated? <u>Y</u>
Proposed Packer Depth	<u>6350</u> ft
Min. Packer Depth	<u>6300</u> (100-ft limit)
Proposed Max. Surface Press.	<u>1200</u> psi
Admin. Inj. Press.	<u>1120</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

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

FRESH WATER: Aquifer Quaternary Max Depth 95' HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: Capitan CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? 32 FW Analysis _____

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

Disposal Int: Inject Rate (Avg/Max BWPD): 2500/3500 Protectable Waters? MA Source: _____ System Closed or Open

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

AOR Wells: 1/2-M Radius Map? ☒ Well List? _____ Total No. Wells Penetrating Interval: _____ Horizontals? _____

Penetrating Wells: No. Active Wells 36 Num Repairs? _____ on which well(s)? _____ Diagrams? _____

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

NOTICE: Newspaper Date 1-5-2016 Mineral Owner NMSLO Surface Owner NMSLO N. Date 1-5-2016

RULE 26.7(A): Identified Tracts? Y Affected Persons: St Stephens Johnson N. Date _____

Order Conditions: Issues: _____

Add Order Cond: * 1120 A 12-12981 sets max pri