

ABOVE THIS LINE FOR DIVISION USE ONLY

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



COPY WFX 923A

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]

WFX 959

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A] Apache Corporation (OGRID 873)
 [A] Location - Spacing Unit - Simultaneous Dedication West Blinbry Drinkard Unit 145
 NSL NSP SD 30-025-43229
 Eunice; BLI-TU-DR, North (22900)

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

Drinkard only [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 X WFX PMX SWD IPI EOR PPR

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] X Offset Operators, Leaseholders or Surface Owner
- [C] X Application is One Which Requires Published Legal Notice
- [D] X Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] X For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

RECEIVED OCT 1 2016
 PERMITS WEST

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

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

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

Brian Wood
 Print or Type Name
 (505) 466-8120

Brian Wood
 Signature

Consultant 8-19-16
 Title Date
 brian@permitswest.com
 e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: APACHE CORPORATION

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

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

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

IV. Is this an expansion of an existing project? _____ Yes XXX No
If yes, give the Division order number authorizing the project: R-12981

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

WEST BLINEBRY DRINKARD UNIT 145

VII. Attach data on the proposed operation, including:

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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.

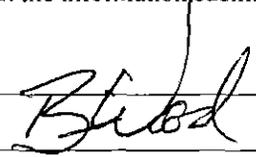
XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

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: AUG. 16, 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 CORPORATION

WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 145

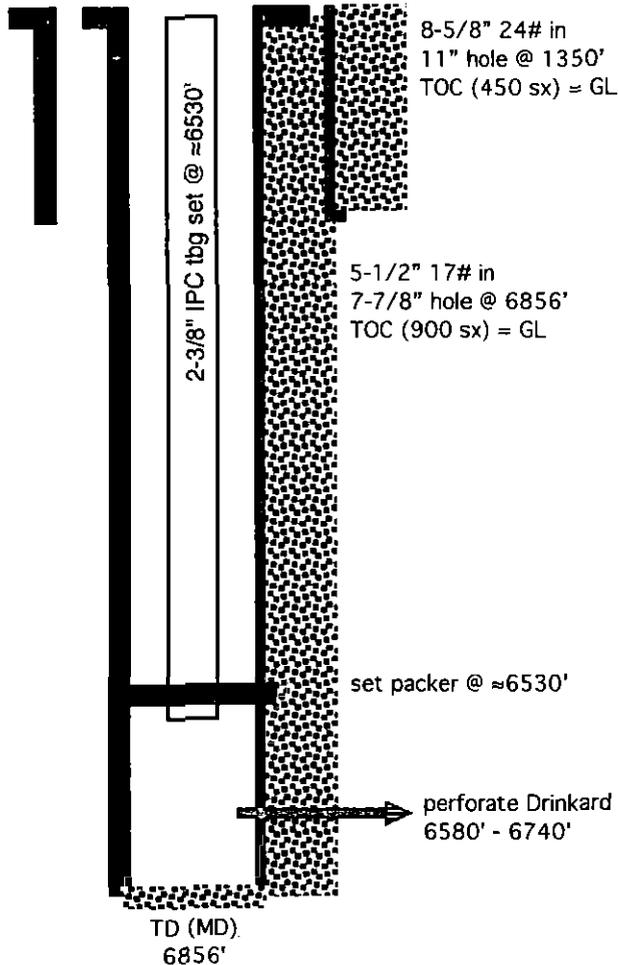
WELL LOCATION: SHL: 1780' FNL & 940' FEL H 17 21 S 37 E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE
BHL: 1960' FNL & 765' FEL

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

"Proposed"



Hole Size: 11" Casing Size: 8-5/8"
 Cemented with: 450 sx. *or* _____ ft³
 Top of Cement: SURFACE Method Determined: VISUAL

Intermediate Casing

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

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"
 Cemented with: 900 sx. *or* _____ ft³
 Top of Cement: SURFACE Method Determined: CBL
 Total Depth: 6,856' MD

Injection Interval

6,580' feet to 6,740'

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

(not to scale)

INJECTION WELL DATA SHEETTubing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COATType of Packer: LOCK SET INJECTIONPacker Setting Depth: ≈6,530'

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

Additional Data

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

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

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: YATES (2617'), 7 RIVERS (2882'), QUEEN (3421'), GRAYBURG (3698'),
SAN ANDRES (4069'), PADDOCK (5252'), BLINEBRY (5694'), TUBB (6172')UNDER: ABO (6,752')

APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 145
SHL: 1780' FNL & 940' FEL
BHL: 1960' FNL & 765' FEL
SEC. 17, T. 21 S., R. 37 E., LEA COUNTY, NM

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I. Purpose is to drill a 6850' TVD (6856' MD) water injection well to increase oil recovery. The well will inject (6580' - 6740') into the Drinkard, which is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900).

The well and zone are part of the West Blinebry Drinkard Unit (Unit Number 300341, Case Numbers 14125 and 14126, both Order Number R-12981) that was established in 2008 by Apache. There have been 12 subsequent WFX approvals. This is an active water flood. Thirty-six water injectors are active in the unit.

Well will be directionally drilled because the preferred SHL is occupied by a tank battery, overhead power line, Targa buried pipeline, and paved County Road 33 (Turner Road).

II. Operator: Apache Corporation (OGRID #873)
Operator phone number: (432) 818-1167
Operator address: 303 Veterans Airpark Lane, Suite 3000
Midland, TX 79705
Contact for Application: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease: BLM NMLC-032096A
Lease Size: 120 acres (see Exhibit A for maps and C-102)
Closest Lease Line: from SHL = 380' & from BHL = 555'
Lease Area: E2NE4 & NESE of Section 17, T. 21 S., R. 37 E.
Unit Size: 2,480 acres
Closest Unit Line: from SHL = 1700' & from BHL = 1875'
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

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- A. (2) Surface casing (8-5/8", 24#) will be set at 1350' in an 11" hole. Cement will be circulated to the surface with 450 sacks.

Production casing (5-1/2", 17#) will be set at 6856' (MD) in a 7-7/8" hole. Cement will be circulated to the surface with 900 sacks.

Mechanical integrity of the casing will be assured by hydraulically pressure testing to 500 psi for 30 minutes.

- A. (3) Tubing specifications are 2-3/8", J-55, 4.7#, and internally plastic coated. Setting depth will be \approx 6530'. (Disposal interval will be from 6580' to 6740'.)
- A. (4) A lock set injection packer will be set at \approx 6530' (\approx 50' above the highest proposed perforation of 6580').
- B. (1) Injection zone will be the Drinkard carbonate. The zone is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool. Estimated fracture gradient is \approx 0.56 psi per foot.
- B. (2) Injection interval will be from 6580' to 6740' in a cased hole. See attached C-108 well profile for more perforation information.
- B. (3) The well has not yet been drilled. It will be completed as a water injection well after approval.
- B. (4) The well will be perforated from 6580' to 6740' with 2 shots per foot. Shot diameter = 0.40".
- B. (5) Next higher oil or gas zone in the area of review is the Blinebry. Its bottom is at 6485'. Injection will occur in the Drinkard. Drinkard top is at 6486'. Injection interval will be from 6580' to 6740'. The injection interval is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (NMOCD pool code number = 22900). Blinebry is in the same pool.

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The next lower oil or gas zone in the area of review is the Wantz; Abo (code 62700). Its top is at 6752'. Deepest perforation will be 6740'.

IV. This is not a horizontal or vertical expansion of an existing injection project. The case file for the unit approval (R-12981) includes a discussion of the water flood. There have been 11 subsequent WFX approvals: -854, -857, -913, -921, -922, -923, -924, -948, -952, -954, -955, and -958. Closest unit boundary is $\geq 1700'$ west. Three existing injection wells are within a half-mile radius. All three are in the unit (see Exhibit B).

V. Exhibit B shows all 46 existing wells (42 oil wells + 2 water injection wells + 1 water supply well + 1 P & A well) within a half-mile radius, regardless of depth. Exhibit C shows all 654 existing wells (507 oil or gas producing wells + 64 injection or disposal wells + 63 P & A wells + 20 water supply wells) within a two-mile radius.

Exhibit D shows all leases (only BLM, fee, and State) within a half-mile radius. Exhibit E shows all lessors (BLM, fee, and state) within a two-mile radius. Details on the leases within a half-mile are:

Aliquot Parts in Area of Review (T 21 S, R 37 E)	Lessor	Lease	Lessee(s) of Record	Drinkard operator
S2SE4 Sec. 8	BLM	NMNM-090161	Apache & Chevron	Apache
SWSW Sec. 9	BLM	NMNM-090161	Apache & Chevron	Apache
NW4 Sec. 16	NMSLO	B0-1557-0001	Occidental Permian	Apache
NW4 Sec. 16	NMSLO	B0-1557-0002	Apache	Apache
N2SW4 Sec. 16	NMSLO	B0-0085-0016	Apache	Apache
SWSW Sec. 16	NMSLO	B0-8105-0004	Apache	Apache
E2NE4 & NESE Sec. 17	BLM	NMLC-032096A	Apache & Chevron	Apache
NWNE Sec. 17	fee	W W Weatherly	Apache	Apache
SWNE, NWSE, & NESW Sec. 17	fee	WW Weatherly 1	Apache	Apache
S2SE4 Sec. 17	fee	Percy Hardy	Apache	Apache
E2NW4 Sec. 17	fee	Mittie Weatherly	Chevron	Texaco*

*since plugged back to Grayburg

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VI. Forty-six existing wells are within a half-mile radius. Twenty-six of the wells penetrated the Drinkard. The penetrators include 23 oil wells, 2 water injection wells, and 1 water supply well (plugged back from the Drinkard to the San Andres). A table abstracting the well construction details and histories of the penetrators is in Exhibit F. A diagram of the plug back well is also in Exhibit F. The 46 wells and their distances from the 145 well are:

API	WHO	WELL	TYPE WELL	UNIT-SECTION-T21S-R37E	TVD	ZONE	FEET FROM WBDU 145
3002506638	Apache	WBDU 066	O	H-17	6645	Eunice; Bli-Tu-Dr, N	118
3002536101	Apache	Lockhart A 17 006	O	H-17	4150	Penrose Skelly; Grayburg	657
3002536159	Apache	Lockhart A 17 007	O	I-17	4100	Penrose Skelly; Grayburg	735
3002538411	Apache	WBDU 068	O	H-17	6905	Eunice; Bli-Tu-Dr, N	865
3002538204	Apache	WBDU 069	O	I-17	6829	Eunice; Bli-Tu-Dr, N	933
3002536658	Apache	W W Weatherly 007	O	G-17	4234	Penrose Skelly; Grayburg	951
3002539987	Apache	WBDU 125	O	B-17	6951	Eunice; Bli-Tu-Dr, N	994
3002538206	Apache	WBDU 071	O	A-17	6905	Eunice; Bli-Tu-Dr, N	1018
3002542496	Apache	WBDU 221	O	I-17	Plan 7200	Eunice; Bli-Tu-Dr, N	1051
3002535709	Apache	State C Tract 12 011	O	E-16	4200	Penrose Skelly; Grayburg	1110

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3002506646	Apache	WBDU 073	O	G-17	6677	Eunice; Bli-Tu-Dr, N	1212
3002536115	Apache	State C Tract 12 012	O	E-16	4125	Penrose Skelly; Grayburg	1269
3002536617	Apache	State DA 009	O	L-16	4350	Penrose Skelly; Grayburg	1289
3002506639	Apache	WBDU 067	W	A-17	6770	San Andres WSW	1294
3002506637	Apache	Lockhart A 17 002	O	I-17	6630	Penrose Skelly; Grayburg	1358
3002506625	Apache	WBDU 058	I	E-16	6660	Eunice; Bli-Tu-Dr, N	1441
3002537379	Apache	Lockhart A 17 010	O	A-17	4360	Penrose Skelly; Grayburg	1673
3002523717	Apache	W W Weatherly 005	O	B-17	3875	Penrose Skelly; Grayburg	1772
3002539278	Apache	WBDU 117	O	B-17	7000	Eunice; Bli-Tu-Dr, N	1807
3002540429	Apache	WBDU 144H	O	B-17	6637	Eunice; Bli-Tu-Dr, N	1814
3002506645	Apache	WBDU 072	O	J-17	6637	Eunice; Bli-Tu-Dr, N	1814
3002506642	Apache	WBDU 065	O	B-17	6684	Eunice; Bli-Tu-Dr, N	1846
3002537864	Apache	State DA 014	O	L-16	4375	Penrose Skelly; Grayburg	1886
3002536659	Apache	W W Weatherly 008	O	J-17	4215	Penrose Skelly; Grayburg	1897
3002506629	Apache	WBDU 061	I	D-16	6690	Eunice; Bli-Tu-Dr, N	1931

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3002538205	Apache	WBDU 070	O	A-17	6925	Eunice; Bli-Tu-Dr, N	1951
3002539709	Apache	WBDU 118	O	J-17	7200	Eunice; Bli-Tu-Dr, N	1962
3002541375	Apache	State C Tract 12 001H	P & A	D-16	1295	fish	1963
3002539172	Apache	WBDU 123	O	J-17	7200	Eunice; Bli-Tu-Dr, N	1965
3002536661	Apache	Lockhart A 17 009	O	A-17	4350	Penrose Skelly; Grayburg	1966
3002506615	Apache	WBDU 075	O	L-16	6650	Eunice; Bli-Tu-Dr, N	1979
3002541454	Apache	State C Tract 12 Com 001Y	O	D-16	6872	Eunice; Bli-Tu-Dr, N	1990
3002535515	Apache	State C Tract 12 008	O	D-16	4450	Penrose Skelly; Grayburg	2046
3002538549	Apache	WBDU 126	O	I-17	6920	Eunice; Bli-Tu-Dr, N	2091
3002534245	Apache	State DA 006	O	L-16	4000	Penrose Skelly; Grayburg	2091
3002539958	Apache	WBDU 126	O	P-17	6920	Eunice; Bli-Tu-Dr, N	2110
3002538220	Apache	WBDU 080	O	L-16	6875	Eunice; Bli-Tu-Dr, N	2141
3002536614	Apache	State C Tract 12 018	O	E-16	4350	Penrose Skelly; Grayburg	2153
3002536305	Apache	WBDU 062	O	D-16	6950	Eunice; Bli-Tu-Dr, N	2171
3002540274	Apache	WBDU 124	O	P-8	7300	Eunice; Bli-Tu-Dr, N	2199

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3002538377	Apache	W W Weatherly 012	O	B-17	4150	Penrose Skelly; Grayburg	2292
3002536478	Apache	State C Tract 12 015	O	C-16	4725	Penrose Skelly; Grayburg	2295
3002523831	Apache	Percy Hardy 005	O	P-17	3849	Penrose Skelly; Grayburg	2352
3002524178	Apache	W W Weatherly 006	O	K-17	3840	Penrose Skelly; Grayburg	2401
3002539733	Apache	WBDU 109	O	B-17	7200	Eunice; Bli-Tu-Dr, N	2409
3002506635	Chevron	Mittie Weatherly 001	O	F-17	6635	Penrose Skelly; Grayburg	2507
3002535708	Apache	State C Tract 12 010	O	F-16	4200	Penrose Skelly; Grayburg	2583
3002543125	Apache	WBDU 166	O	F-16	Plan 6900	Eunice; Bli-Tu-Dr, N	2636
3002506433	Apache	WBDU 040	I	P-8	6758	Eunice; Bli-Tu-Dr, N	2643

- VII. 1. Average injection rate will be \approx 2,500 bwpd.
 Maximum injection rate will be \approx 3,000 bwpd.
2. System will be closed. The well will be tied into the existing unit pipeline system. It consists of a branched injection system with centrifugal injection pumps.
3. Average injection pressure will be \approx 1100 psi. Maximum injection pressure will be 1120 psi (see item (13) of Order R-12981).
4. Water source will be water pumped from two existing \approx 4,000' deep San Andres water supply wells, plus produced water from Blinebry, Tubb,

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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 41,607,695 barrels that have been injected in the unit to date.

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

5. There are 107 active 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 injection interval is Leonardian in age, 253' thick, and consists of tan to dark gray shallow marine carbonates, many of which have been dolomitized. Core filling and replacement

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WEST BLINEBRY DRINKARD UNIT 145
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BHL: 1960' FNL & 765' FEL
SEC. 17, T. 21 S., R. 37 E., LEA COUNTY, NM

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30-025-43229

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 the state. The West Blinebry Drinkard Unit shares its east border with Apache's Northeast Drinkard Unit. Three other similar water floods (East Blinebry Drinkard Units, Central Drinkard Unit, and Warren Blinebry Unit) are within a mile of the West Blinebry Drinkard Unit. The Central Drinkard Unit has been under water flood since the 1960s.

Estimated formation depths are:

Quaternary = 0'
Rustler = 1,258'
Top salt = 1,458'
Tansill = 2,487'
Yates = 2,617'
Seven Rivers = 2,882'
Queen = 3,421'
Grayburg = 3,698'
San Andres = 4,069'
Glorieta = 5,159'
Paddock = 5,252'
Blinebry = 5,694'
Tubb = 6,172'
Drinkard = 6,486'
Injection interval = 6580' - 6740'
Abo = 6,752'
TVD = 6,850'
MD = 6,856'

According to Office of the State Engineer records (Exhibit G), two fresh water wells are within a mile radius. Neither was found during a June 2, 2016 inspection. CP 01026 POD1 is at what appears to be an abandoned ranch. CP 00164 is a caliche pit.

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SHL: 1780' FNL & 940' FEL

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Two samples (Exhibit H) were collected on June 2, 2016. One sample was collected from CP 00447. It is a 95' deep well 5287' southwest in SESE Section 18. The second well is not listed in OSE records. It is 1.47 miles southeast in SWSW Section 15. TD is likely the Quaternary. The Ogallala is >6 miles northeast.

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

There will be >5,000' of vertical separation and hundreds of feet of salt and anhydrite between the bottom of the only likely underground fresh water source and the top of the injection interval.

Produced water is currently being injected (196 wells) or disposed (9 wells) into the Blinebry-Tubb-Drinkard, San Andres, Grayburg, Queen, Seven Rivers, and Yates within T. 21 S., R. 37 E.

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

X. GR/CNL, resistivity, density, and CBL logs are planned.

XI. No fresh water well is within a mile. Analyses from fresh water wells just beyond a mile are attached (Exhibit H).

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 ~109 miles southwest (Exhibit I). There are 155 Drinkard injection wells in New Mexico. Previously approved water flood expansions (WFX-) in the unit include 854, 857, 913, 921, 922, 923, 924, 948, 952, 954, 955, and 958.

XIII. A legal ad (see Exhibit J) was published on August 3, 2016. Notice (this application) has been sent (Exhibit K) to the surface owner (Chevron USA Inc.),

APACHE CORPORATION
WEST BLINEBRY DRINKARD UNIT 145
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20 NW
SE 1/4

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- X. GR/CNL, resistivity, density, and CBL logs are planned.
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- XII. Apache is not aware of any geologic or engineering data that may indicate the injection interval is in hydrologic connection with any underground sources of water. Closest Quaternary faults are \approx 109 miles southwest (Exhibit I). There are 155 Drinkard injection wells in New Mexico. Previously approved water flood expansions (WFX-) in the unit include 854, 857, 913, 921, 922, 923, 924, 948, 952, 954, 955, and 958.
- XIII. A legal ad (see Exhibit J) was published on August 3, 2016. Notice (this application) has been sent (Exhibit K) to the surface owner (BLM); lessor (BLM),

APACHE CORPORATION

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WEST BLINEBRY DRINKARD UNIT 145

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SEC. 17, T. 21 S., R. 37 E., LEA COUNTY, NM

30-025-43229

offset Drinkard operators (only Apache now, but formerly Texaco (aka, Chevron), lessees (only Apache and Chevron), and operating rights holders (Chevron USA, ConocoPhillips Co., John H. Hendrix Corp., Oxy USA WTP, Penroc Oil Corp., and Six Aeches Co.). Apache operates the only active Drinkard wells in the area of review.



- Cartographic Features**
- County Boundaries
 - County Seats
 - City, Town or Village
 - SLO District Offices
 - SLO District Boundary
 - Hwy Mileposts
 - Interstate
 - NM Hwy
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 - Local Road
 - Continental Divide
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 - Volcanic Vents
 - NMOC D Order R-111-P
 - Potash Enclave Outline
- NMOC D Oil and Gas Wells**
- CO₂
 - Injection
 - Oil
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 - 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

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EXHIBIT A



www.nmstatelands.org

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Artec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

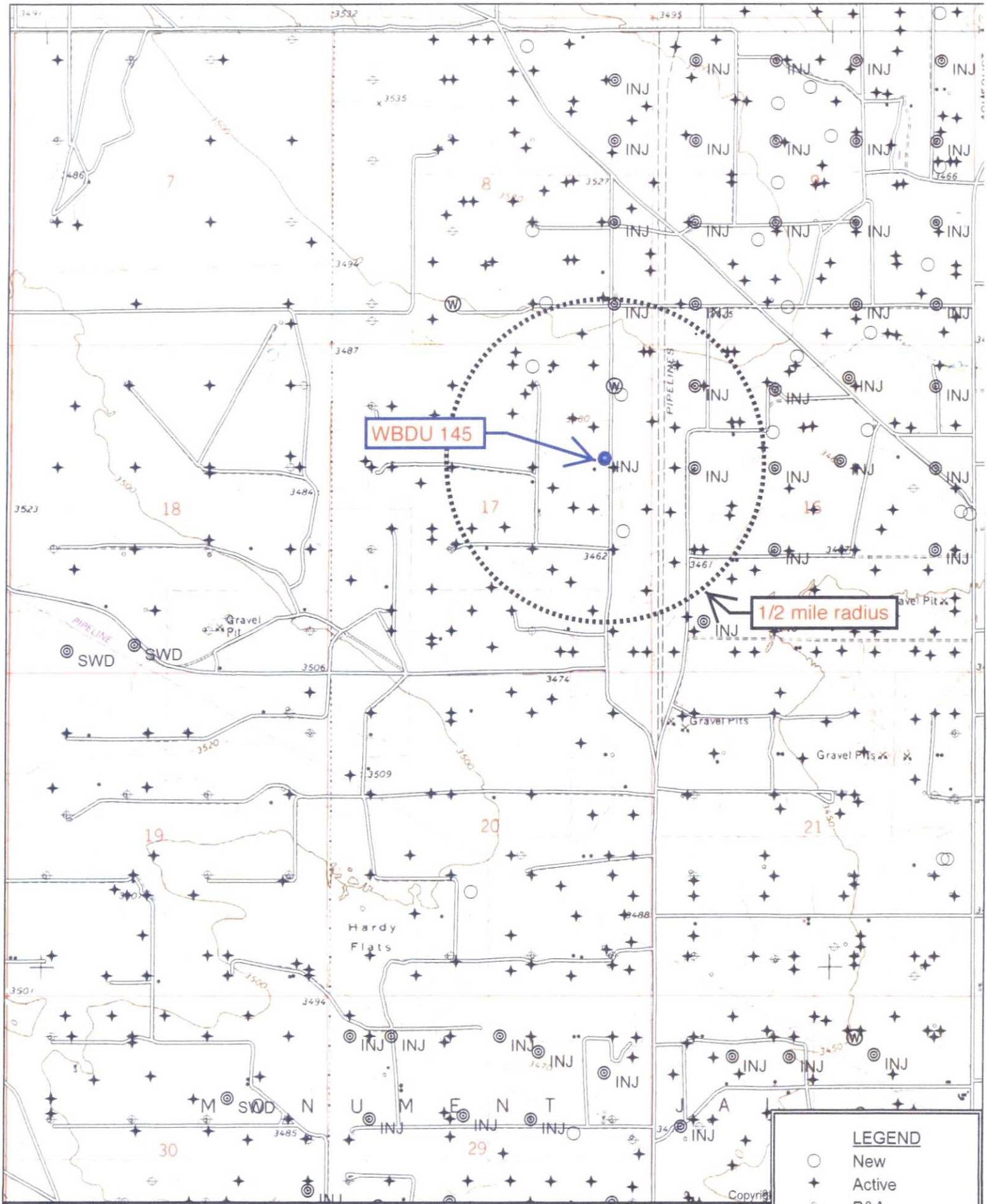
1 API Number 30-025-43229		2 Pool Code 22900		3 Pool Name EUNICE; BLI-TU-DRI., N.					
4 Property Code 37346		5 Property Name WEST BLINEBRY DRINKARD UNIT						6 Well Number 145	
7 GRID NO. 873		8 Operator Name APACHE CORPORATION						9 Elevation 3476'	
10 Surface Location									
UL or lot no H	Section 17	Township 21S	Range 37E	Lot Idn	Feet from the 1780	North/South line NORTH	Feet from the 940	East/West line EAST	County LEA
11 Bottom Hole Location If Different From Surface									
UL or lot no. H	Section 17	Township 21S	Range 37E	Lot Idn	Feet from the 1960	North/South line NORTH	Feet from the 765	East/West line EAST	County LEA
12 Dedicated Acres 40	13 Joint or Infill		14 Consolidation Code		15 Order No				

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

<p>16</p> <p>N 89°25'08" E 2639.50'</p> <p>GEODETIC DATA NAD 83 GRID - NM EAST</p> <p>SURFACE LOCATION N: 540748.4 - E: 897103.9 LAT: 32.48129157° N LONG: 103.17962133° W</p> <p>BOTTOM HOLE N: 540570.0 - E: 897281.0 LAT: 32.48079602° N LONG: 103.17905362° W</p> <p>CORNER DATA NAD 83 GRID - NM EAST</p> <p>A: CALCULATED CORNER N 537205.8 - E 892803.6</p> <p>B: FOUND BRASS CAP "1911" N 539846.6 - E 892774.5</p> <p>C: FOUND BRASS CAP "1911" N 542485.6 - E 892745.8</p> <p>D: FOUND BRASS CAP "1911" N 542512.2 - E 895384.9</p> <p>E: FOUND BRASS CAP "1911" N 542536.9 - E 898023.4</p> <p>F: CALCULATED CORNER N 537254.7 - E 898084.0</p>	<p>17</p> <p>N 89°27'37" E 2638.88'</p> <p>SEE DETAIL "A"</p> <p>S. L.</p> <p>1780'</p> <p>1960'</p> <p>940'</p> <p>765'</p> <p>B. H.</p> <p>S 44°46'48" E (GRID) 251.34' (HORIZ)</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</p> <p>Sorina L Flores 5/12/16 Signature Date</p> <p>Sorina L. Flores Printed Name</p> <p>sorina.flores@spachecorp.com E-mail Address</p>
	<p>18</p> <p>N 00°37'20" W 2639.34'</p> <p>N 00°37'41" W 2641.15'</p> <p>17</p> <p>DETAIL "A"</p> <p>3477.7' 600' 3478.3'</p> <p>600'</p> <p>S. L.</p> <p>3474.6' 3474.3'</p> <p>S 89°27'59" W 5281.20'</p>	<p>19</p> <p>S 00°39'21" E 5282.96'</p> <p>"SURVEYOR CERTIFICATION</p> <p>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.</p> <p>1-28-2016 Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>19680 Certificate Number</p> <p>REV. WELL # 5-12-18</p>

RRC - Firm No.: TX 10193838 NM 4655451 - Job No.: LS1601030

EXHIBIT A



WBDU 145

1/2 mile radius

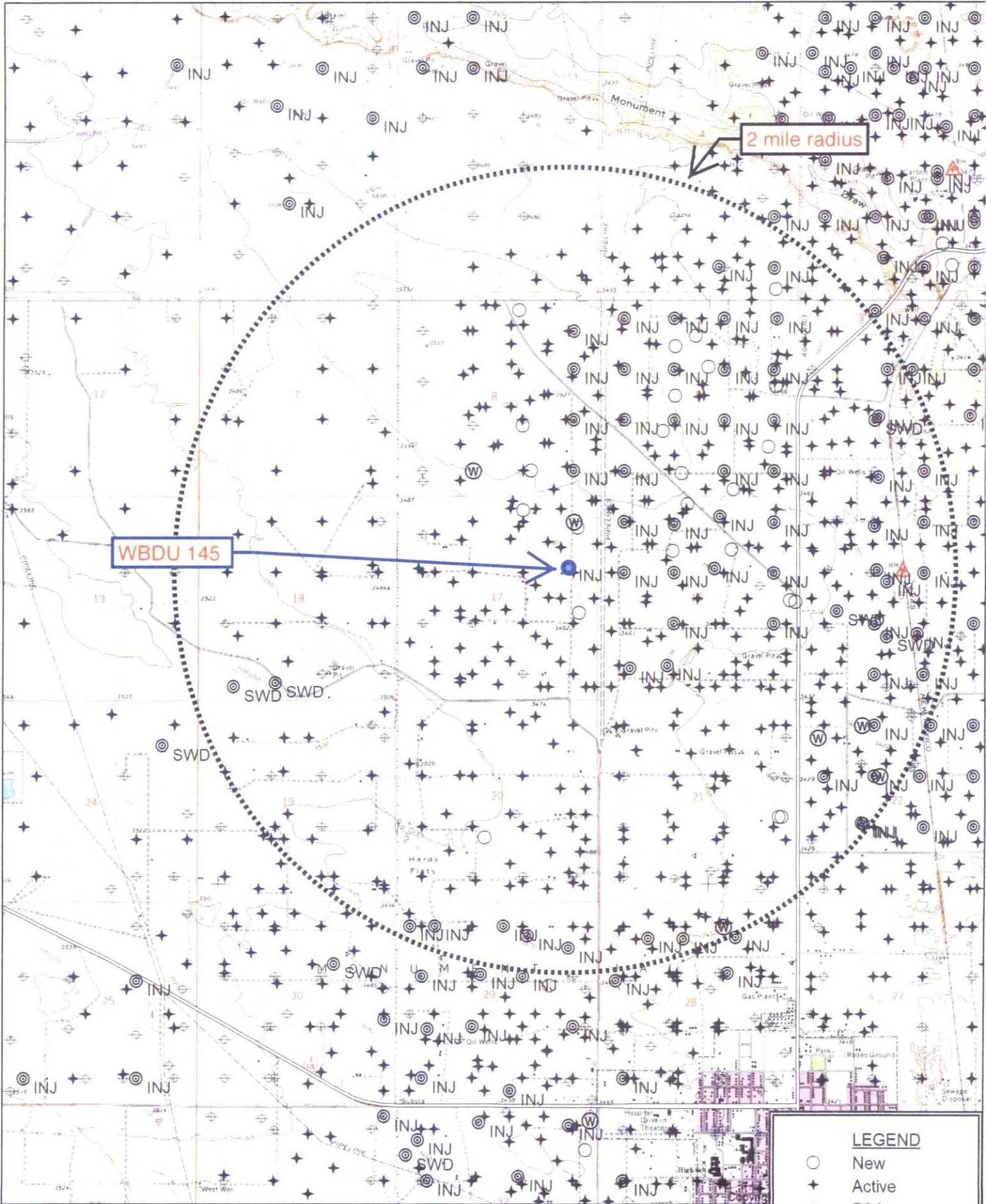
Hardy Flats

EXHIBIT B

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

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





2 mile radius

WBDU 145

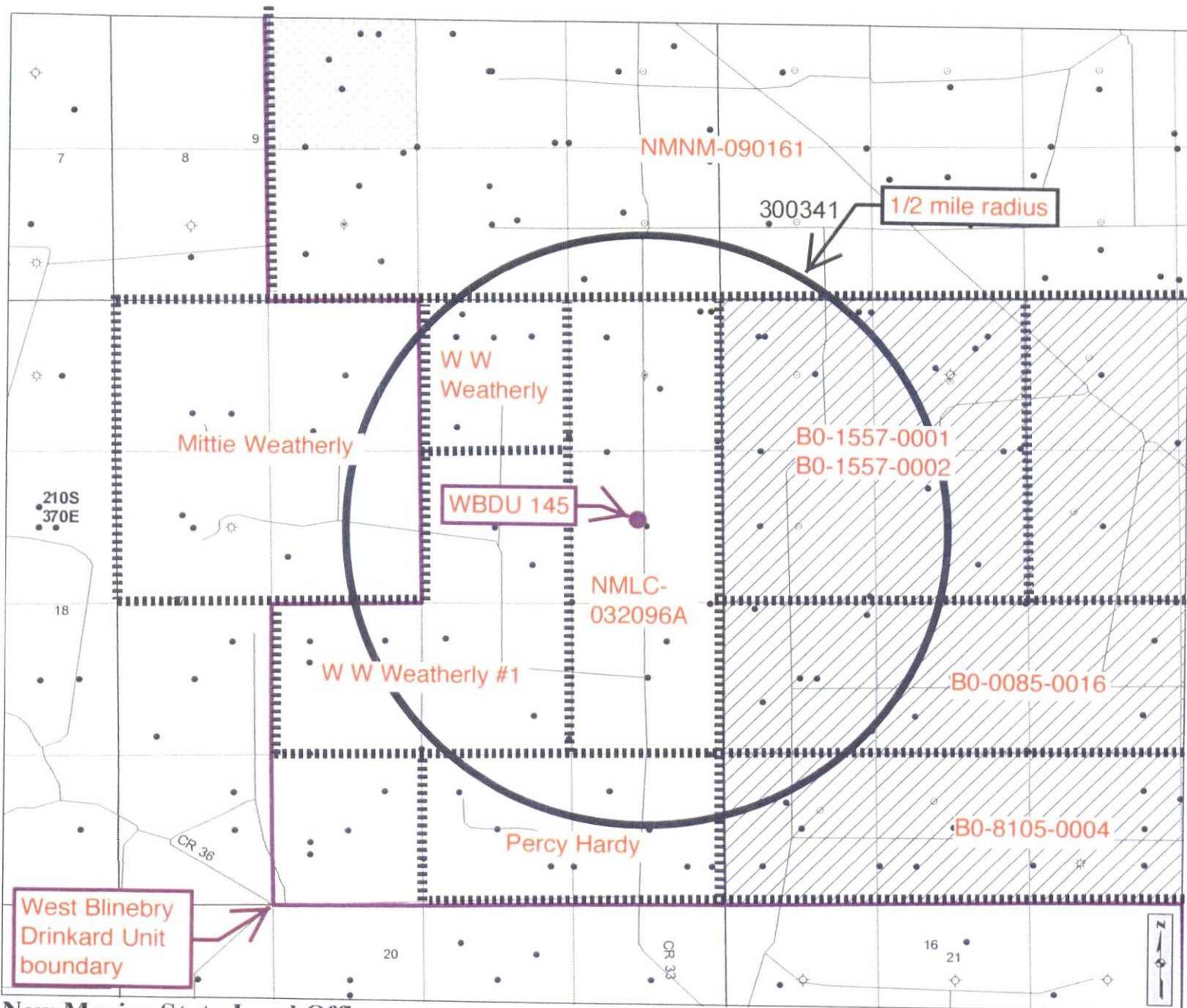
LEGEND

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



Quad: EUNICE
Scale: 1 inch = 3,225 ft.

EXHIBIT C



- Cartographic Features**
- County Boundaries
 - County Seats
 - City, Town or Village
 - SLO District Offices
 - SLO District Boundary
 - Hwy Mileposts
 - Interstate
 - NM Hwy
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- NMOC'D Oil and Gas Wells**
- CO₂
 - Injection
 - Water
 - Gas
 - Miscellaneous
 - Salt Water Disposal
 - DA or PA

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

0 0.05 0.1 0.2 0.3 0.4 Miles
 Universal Transverse Mercator Projection, Zone 13
 1983 North American Datum

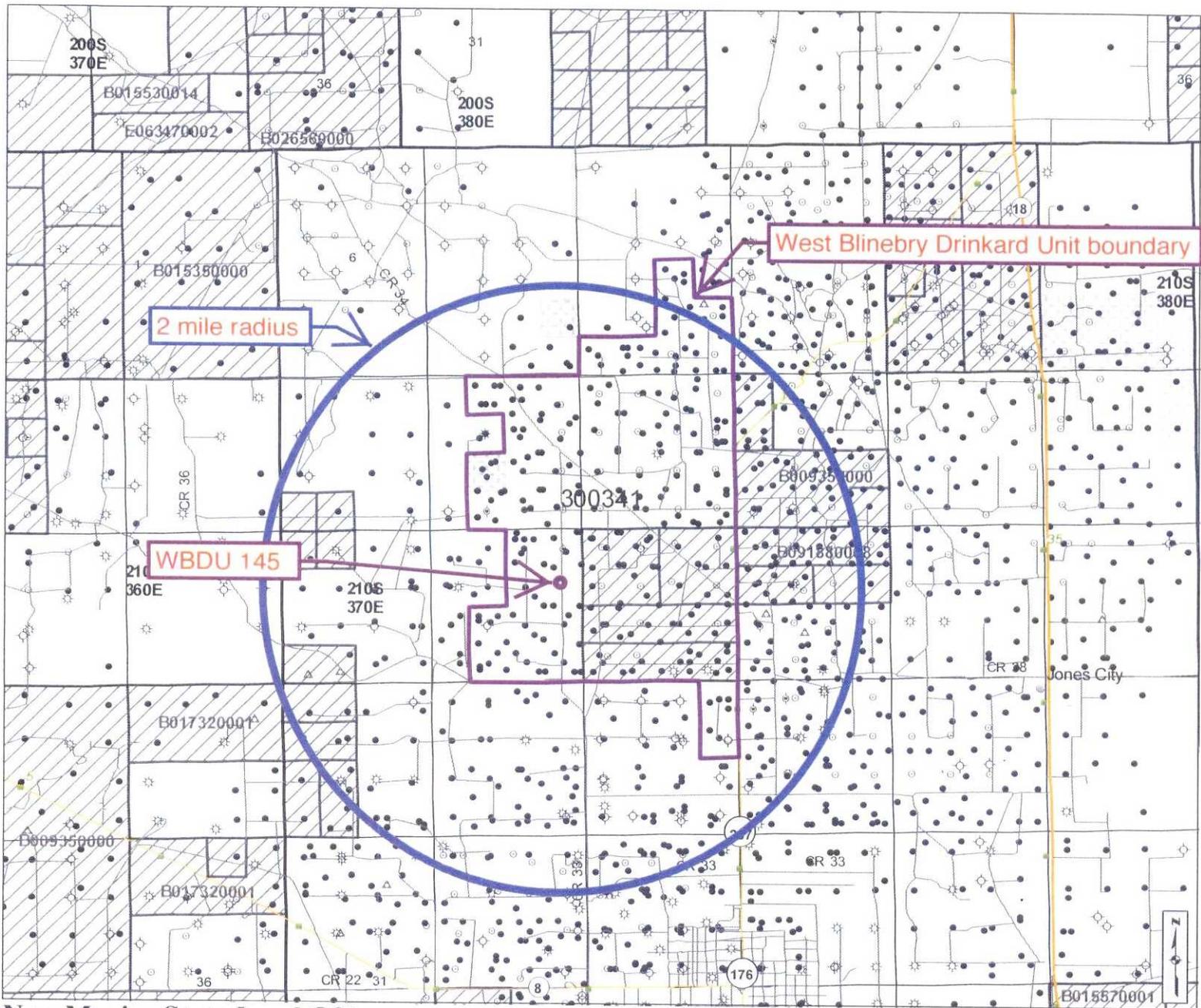
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EXHIBIT D



www.nmstatelands.org



- Cartographic Features**
- County Boundaries
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 - City, Town or Village
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0 0.2 0.4 0.8 1.2 1.6 Miles
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EXHIBIT E

Sorted by distance from WBDU 145

WELL	SPUD	TVD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW DETERMINED
WBDU 066	7/7/47	6645	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	222	200 sx	GL	Circ to GL
30-025-06638					12	9.625	2529	500 sx	1513	Temp Survey
H-17-21S-37E					8.75	7	6629	500 sx	3740	CBL
WBDU 068	7/14/07	6905	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1295	650 sx	GL	Circ
30-025-38411					7.875	5.5	6905	1350 sx	2660	CBL
H-17-21S-37E										
WBDU 069	2/22/07	6875	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1303	600 sx	GL	Circ
30-025-38204					7.875	5.5	6875	1075 sx	440	CBL
I-17-21S-37E										
WBDU 125	1/22/11	6951	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1317	665 sx	GL	Circ 222 sx
30-025-39987					7.875	5.5	6951	1300 sx	GL	Circ 137 sx
B-17-21S-37E										

Sorted by distance from WBDU 145

WBDU 071	3/17/07	6905	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1300	575 sx	GL	Circ
30-025-38206					7.875	5.5	6905	1150 sx	240	CBL
A-17-21S-37E										
WBDU 221	Plan	Plan 7200	Eunice; Bli-Tu-Dr, N	O	11	8.625	1350	530	GL	N/A
30-025-42496					7.875	5.5	7200	1000	GL	
I-17-21S-37E										
WBDU 073	5/19/87	6677	Eunice; Bli-Tu-Dr, N	O	13.75	10.75	363	300 sx	GL	Circ
30-025-06646					9.625	7.625	2873	2000 sx	GL	Circ
G-17-21S-37E					6.75	5.5	6655	550 sx	2500	Temp Survey
WBDU 130	Plan	Plan 7200	Eunice; Bli-Tu-Dr, N	O	11	8.625	1375	440	GL	N/A
30-025-42495					7.875	5.5	7200	975	GL	
A-17-21S-37E										
WBDU 067	12/31/49	6770	WSW; San Andres	W	16	13.375	228	250 sx	GL	Circ
30-025-06639					12.5	9.625	2819	900 sx	675	Temp Survey
A-17-21S-37E					8.75	7	6767	650 sx	2830	CBL

Sorted by distance from WBDU 145

Lockhart A 17 002	3/26/47	6630	Penrose Skelly; Grayburg	O	17.5	13.375	195	200 sx	GL	Circ
30-025-06637					12.25	9.625	2538	450 sx	1364	Temp Survey
I-17-21S-37E					7.875	5.5	6629	500 sx	3510	Temp Survey
WBDU 058	7/5/72	6660	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	326	300 sx	GL	Circ
30-025-06625					12	9.625	2902	1500 sx	1560	Temp Survey
E-16-21S-37E					8.75	7	6660	775 sx	1900	Temp Survey
WBDU 117	1/2/11	7000	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1298	670 sx	GL	Circ 80 sx
30-025-39278					7.875	5.5	7000	985 sx	300	CBL
B-17-21S-37E										
WBDU 144H	4/14/12	6637	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	1235	1230 sx	GL	Circ 160 sx
30-025-40429					11	8.625	5741	910 sx	GL	Circ 42 bbl
B-17-21S-37E					7.875	5.5	10657	515 sx	GL	Circ

Sorted by distance from WBDU 145

WBDU 072	8/1/47	6639	Eunice; Bli-Tu-Dr, N	O	13.325	10.75	337	300 sx	GL	Circ
30-025-06645					9.875	7.625	2844	1600 sx	GL	Circ
J-17-21S-37E					6.75	5.5	6639	550 sx	3000	Temp Survey
WBDU 065	11/16/51	6684	Drinkard	O	12.5	10.75	282	250 sx	GL	Circ
30-025-06642					8.75	7.625	2759	1100 sx	GL	Circ 200 sx
B-17-21S-37E					6.625	5.5	6582	200 sx	2600	Temp Survey
WBDU 061	6/6/49	6690	Eunice; Bli-Tu-Dr, N	I	17	13.375	335	300 sx	GL	Circ
30-025-06629					12	9.625	2898	1500 sx	675	Temp Survey
D-16-21S-37E					8.75	5.5	6629	1300 sx	2700	Temp Survey
WBDU 070	3/6/07	6925	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1302	575 sx	GL	Circ
30-025-38205					7.875	5.5	6925	1100 sx	245	CBL
A-17-21S-37E										

Sorted by distance from WBDU 145

WBDU 118	5/4/10	7208	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1215	650 sx	GL	Circ
30-025-39709					7.875	5.5	7208	1400 sx	350	no report
J-17-21S-37E										
WBDU 123	5/21/10	7200	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1248	650 sx	GL	Circ
30-025-39172					7.875	5.5	7200	1150 sx	330	ETOC
J-17-21S-37E										
WBDU 075	3/24/47	6686	Eunice; Bli-Tu-Dr, N	O	17.25	13.375	216	200 sx	GL	Circ
30-025-06615					11	8.625	2812	1200 sx	1300	Temp Survey
L-16-21S-37E					7.375	5.5	6686	400 sx	3525	Temp Survey
State C Tract 12 Com 001Y	10/20/13	6872	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	1324	1095 sx	GL	Circ 90 sx
30-025-41454					11	8.625	6083	1350 sx	480	Temp Survey
D-16-21S-37E					7.875	5.5	11219	1595 sx	35	CBL

Sorted by distance from WBDU 145

WBDU 126	1/11/11	6920	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1283	665 sx	GL	Circ 222 sx
30-025-39958					7.875	5.5	6920	1340 sx	GL	Circ 130 sx
P-17-21S-37E										
WBDU 080	1/19/07	6875	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1227	575 sx	GL	Circ
30-025-38220					7.875	5.5	6875	1425 sx	225	CBL
L-16-21S-37E										
WBDU 062	7/24/03	6950	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1132	550 sx	GL	Circ 232 sx
30-025-36305					7.875	5.5	6950	1275 sx	GL	Circ 126 sx
D-16-21S-37E										
WBDU 124	10/24/11	7300	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1352	710 sx	GL	Circ 102 sx
30-025-40274					7.875	5.5	7300	1225 sx	278	CBL
P-8-21S-37E										

Sorted by distance from WBDU 145

WBDU 109	4/25/10	7200	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1270	725 sx	GL	Circ
30-025-39733					7.785	5.5	7200	1175 sx	GL	Circ
B-17-21S-37E										
Mittie Weatherly 001	6/6/48	6638	Penrose Skelly; Grayburg	O	17.25	13.375	273	300 sx	GL	Circ
30-025-06635					11	8.625	2791	1000 sx	1740	Temp Survey
F-17-21S-37E					7.875	5.5	6638	350 sx	3728	Temp Survey
WBDU 166	Plan	6900	Eunice; Bli-Tu-Dr, N	O	11	8.625	1300	450 sx	GL	N/A
30-025-43125					7.875	5.5	6900	900 sx	GL	N/A
F-16-21S-37E										
WBDU 040	11/12/49	6758	Eunice; Bli-Tu-Dr, N	I	17	13.375	229	250 sx	GL	Circ
30-025-06433					12.25	9.625	2818	1100 sx	1375	Temp Survey
P-8-21S-37E					8.75	7	6753	.625 sx	2321	Temp Survey

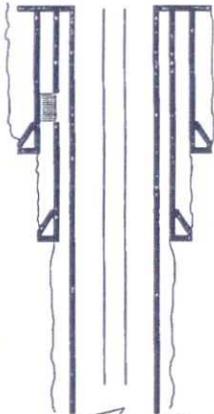
APACHE CORPORATION
WBDU #67WSW (Lockhart A-17 #4)
WELL DIAGRAM (CURRENT CONFIGURATION)



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

9-5/8"
 CMT W/900SX
 TOC @ 1538'
 PERFED & SQZ
 150sx @ 1295'
 TOC @ 675' (TS)

7" EST. CEMENT TOP
 2830' (CBL)
 3325' (TS)



Grayburg
 (Sq w/200sx)
 3749-93'

San Andres
 (Active)
 4100-22', 24-46', 50-86'
 4190-4202', 4208-46'
 4256-60', 66-74', 78-86'
 (Suspended)
 4430-38', 50-54', 56-70'
 4472-88'

Blinbery
 (Sq w/200sx)
 5662-68', 83-87'
 5723-29', 65-69',
 5798-5802', 5830-36'
 5868-72'

Tubb
 6220-25', 6266-6314'

Drinkard
 6611-44', 51-69'
 6677-83', 97-97'

(Sq w/50sx)
 6701-19', 24-48'

TD: 6,770.0

CIBP @ 4400
 w/37' CMT @ 4363'

PBTD: 5080'

521' CMT CAP

CMT RET. @ 5601'
 w/56 bbis CMT

CIBP @ 5905'
 w/25sx @ 5786'

CSG. Collapse @ +/-5900'

Fill @ 5935'
 Lok-set pkr @ 5950'
 w/16 jts (591') tail-pipe

Model D pkr @ 6515'
 w/ 2 jts tbg

CMT RET. @ 6698'

WELL NAME:	WBDU #67WSW (Lockhart A-17 #4)	API:	30-025-06639	
LOCATION:	660°N/660°E Unit A, Sec. 17, T-21S, R-37E	COUNTY:	Lea Co., NM	
SPUD-TD DATE:	10/4/1949 - 11/6/1949	COMP. DATE:	12/1/1949	
PREPARED BY:	Michael Hunter	DATE:	9/10/2013	
TD (ft):	6,770.0	KB Elev. (ft):	3495.00	
PBTD (ft):	5,080.0	Ground Elev. (ft):	3485.00	
		KB Dist. H		
		KB to Ground (ft):	10.00	
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)
Surface Casing	13-3/8" (250sx)	48.00	H-40	0.00 228.00
Int. Casing	9-5/8" (650sx)	36/40	J-55/N-80	0.00 2,819.00
Prod. Casing	7" (650sx)	23.00	J-55/N-80	0.00 6,769.00
Tubing	3-1/2"	9.30	J-55 IPC	0.00 3,950.00

PRODUCTION TBG STRING				
ITEM	DESCRIPTION	LENGTH (FT)	Depth (FT)	
1	3-1/2" 9.3 lb/ft J-55 IPC TBG		+/-3950	
2	3/8" SS CHEMICAL CAPILLARY STRING		+/-4100	
3				
4				
5				
6				
7				
8				
9				
10				

January 2014:
 275 sx squeeze job @
 2000' on 7" csg
 ETOC per CBL = 100'

ESP EQUIPMENT			
ITEM	DESCRIPTION	LENGTH (FT)	Btm (FT)
1	ESP EQUIPMENT:		
2	PUMP DISCHARGE		+/-3950
3	PUMP INTAKE		+/-4000
4	MOTOR BOTTOM		+/-4050
5			
6			
7			
8			
9			
10			

SURFACE EQUIPMENT

PERFORATIONS	
Form.	Intervals
Grayburg	3479-93' (Sq w/200sx)
San Andres	4100-22', 24-46', 50-86', 4190-4202', 4208-46', 56-60', 66-74', 78-86' (Active) 4430-38', 50-54', 56-70', 72-88' (Suspended)
Blinbery	5662-68', 83-87', 5723-29', 65-69', 5798-5802', 5830-36', 5868-72' (Sq w/200sx)
Tubb	6220-25', 6266-6314' (Abandoned)
Drinkard	6611-44', 51-69', 77-83', 97-97' (Abandoned) 6701-19', 24-48' (Sq w/50sx)

EXHIBIT F



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	q q q			X	Y	Distance				
									Source	6416	4				Sec	Tws	Rng	
CP 01026	DOM			1 DAVID KERBO	LE	CP 01026 POD1			Shallow	1	1	3	17	21S	37E	669809	3594958	1275
CP 00164	PLS			3 SAM W GRAVES	LE	CP 00164		1610 meters		2	1	1	21	21S	37E	671665	3594080	1314
CP 00447	PDL			1 JOE E. SIMS	LE	CP 00447		= 5280 feet	Shallow	2	4	4	18	21S	37E	669647	3594451	1612
CP 00895	DOM			3 JOE R. SIMS	LE	CP 00895			Shallow	1	1	20	21S	37E	669957	3593956	1689	
CP 00554	STK			3 MILLARD DECK	LE	CP 00554			Shallow	2	2	16	21S	37E	672744	3595610	1731	
CP 00676	DOM			3 JOE E. SIMS	LE	CP 00676			Shallow	4	4	18	21S	37E	669548	3594352	1748	
CP 00162	PLS			3 SAM W GRAVES	LE	CP 00162				1	4	2	09	21S	37E	672621	3596915	2292
CP 00163	PLS			3 SAM W GRAVES	LE	CP 00163				1	4	2	09	21S	37E	672621	3596915	2292
CP 00985	STK			3 RICKY ZIEGLER	LE	CP 00985 POD1			Shallow	4	4	2	19	21S	37E	669595	3593453	2307
CP 01195	SAN			1 PIPER ENERGY	LE	CP 01245 POD1			Shallow	1	4	3	18	21S	37E	668676	3594410	2516
CP 01245	COM			80 PIPER ENERGY LLC	LE	CP 01245 POD1			Shallow	1	4	3	18	21S	37E	668676	3594410	2516
CP 01511	MON			0 RICE OPERATING COMPANY	LE	CP 01511 POD1				4	4	3	20	21S	37E	670582	3592732	2554
CP 01141	MON			0 SOUTHERN UNION GAS SERVICES	LE	CP 01141 POD5				3	4	3	15	21S	37E	673514	3594253	2654
					LE	CP 01141 POD1				3	4	3	15	21S	37E	673530	3594263	2664
					LE	CP 01141 POD2			Shallow	3	4	3	15	21S	37E	673541	3594250	2679
					LE	CP 01141 POD3			Shallow	3	4	3	15	21S	37E	673541	3594250	2679
					LE	CP 01141 POD4			Shallow	3	4	3	15	21S	37E	673541	3594250	2679
CP 01575	MON			0 ENERGY TRANSFER COMPANY REGENCY FIELD SERVICES INC	LE	CP 01575 POD1		NON	Shallow	1	2	1	22	21S	37E	673542	3594200	2699

*UTM location was derived from PLSS - see Help

EXHIBIT G

(acre ft per annum)

(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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q	q	q	Sec	Tws	Rng	X	Y	Distance
CP 01436	MON			0 APEX TITAN	LE	CP 01436 POD1		6416 4	3	4	3	15	21S	37E	673562	3594229	2707
CP 01575	MON			0 ENERGY TRANSFER COMPANY REGENCY FIELD SERVICES INC	LE	CP 01575 POD2	NON	Shallow	2	2	1	22	21S	37E	673609	3594192	2765
CC 01999	DOM			0 VICKY CLARK	CU	CC 01999 POD1		Shallow	3	3	2	29	03N	06E	670384	3592502	2820
CP 00986	DOM			1 ROBERT MCCASLAND	LE	CP 00986 POD1		Shallow	4	3	4	06	21S	37E	669110	3597437	2930
CP 00161	CP	IRR		40.2 ALFRED P. MITCHELL	LE	CP 00161 POD3			1	4	2	29	21S	37E	671099	3592063	3180
CP 00161 A	CP	COM		16 ALFRED P. MITCHELL	LE	CP 00161 POD3			1	4	2	29	21S	37E	671099	3592063	3180

Record Count: 24

UTM NAD83 Radius Search (In meters):

Easting (X): 671052

Northing (Y): 3595243

Radius: 3220

Sorted by: Distance

*UTM location was derived from PLSS - see Help

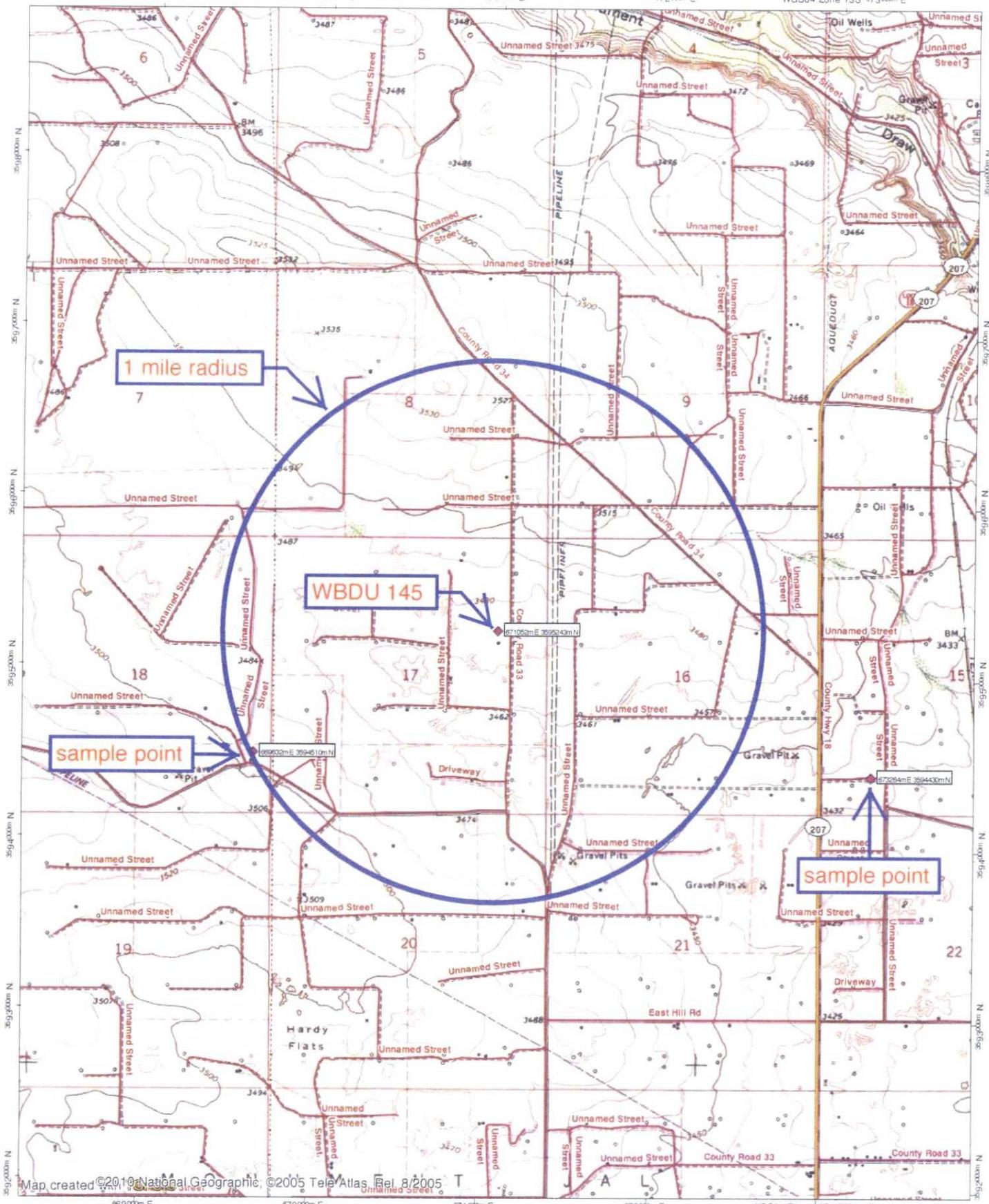
EXHIBIT G

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.

5/31/16 1:41 PM

Page 2 of 2

ACTIVE & INACTIVE POINTS OF DIVERSION



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

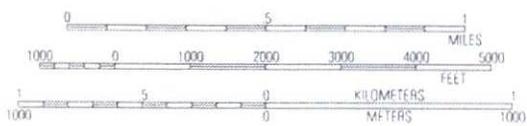


EXHIBIT H



Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: WBDU-Sec 17

Sec. 18

Project: Apache WBDU SWD

Collection Date: 6/2/2016 12:11:00 PM

Lab ID: 1606189-001

Matrix: AQUEOUS

Received Date: 6/3/2016 4:00:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	170	10		mg/L	20	6/6/2016 12:30:21 PM
EPA METHOD 1664A						Analyst: tnc
N-Hexane Extractable Material	ND	11		mg/L	1	6/6/2016 5:00:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	718	40.0	*D	mg/L	1	6/8/2016 3:04:00 PM

EXHIBIT H

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

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

Analytical Report

Lab Order 1606189

Date Reported: 6/17/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: WBDU-Sec 15

Project: Apache WBDU SWD

Collection Date: 6/2/2016 12:20:00 PM

Lab ID: 1606189-002

Matrix: AQUEOUS

Received Date: 6/3/2016 4:00:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	680	25	*	mg/L	50	6/16/2016 12:53:26 AM
EPA METHOD 1664A						Analyst: tnc
N-Hexane Extractable Material	ND	9.8		mg/L	1	6/6/2016 5:00:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	1780	40.0	*D	mg/L	1	6/8/2016 3:04:00 PM

EXHIBIT H

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 | H Holding times for preparation or analysis exceeded | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | ND Not Detected at the Reporting Limit | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | R RPD outside accepted recovery limits | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | S % Recovery outside of range due to dilution or matrix | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO# 1606189

17-Jun-16

Client: Permits West
Project: Apache WBDU SWD

Sample ID	MB-25669	SampType	MBLK	TestCode	EPA Method 1664A					
Client ID	PBW	Batch ID	25669	RunNo	34736					
Prep Date	6/6/2016	Analysis Date	6/6/2016	SeqNo	1071622	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-25669	SampType	LCS	TestCode	EPA Method 1664A					
Client ID	LCSW	Batch ID	25669	RunNo	34736					
Prep Date	6/6/2016	Analysis Date	6/6/2016	SeqNo	1071623	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	43	10	40.00	0	107	78	114			
Silica Gel Treated N-Hexane Extrac	19	10	20.00	0	94.0	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
- W Sample container temperature is out of limit as specified



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1606189

17-Jun-16

Client: Permits West
Project: Apache WBDU SWD

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R34732	RunNo: 34732								
Prep Date:	Analysis Date: 6/6/2016	SeqNo: 1071507 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: R34732	RunNo: 34732								
Prep Date:	Analysis Date: 6/6/2016	SeqNo: 1071508 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	94.3	90	110			

Sample ID: MB	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBW	Batch ID: R34957	RunNo: 34957								
Prep Date:	Analysis Date: 6/15/2016	SeqNo: 1080100 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: R34957	RunNo: 34957								
Prep Date:	Analysis Date: 6/15/2016	SeqNo: 1080101 Units: mg/L								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.9	0.50	5.000	0	97.8	90	110			

Qualifiers:

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



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1606189

17-Jun-16

Client: Permits West
Project: Apache WBDU SWD

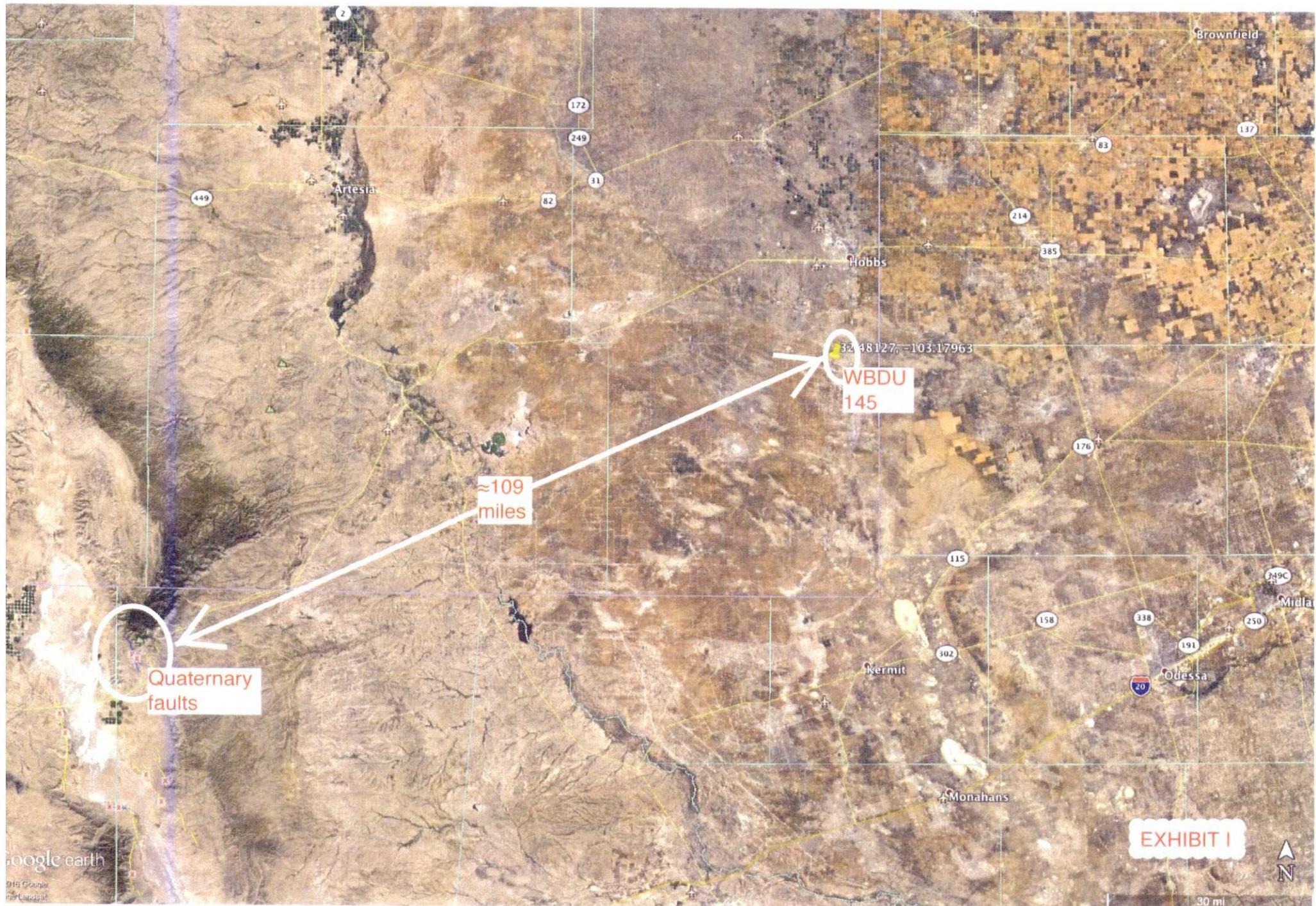
Sample ID	MB-25709	SampType	MBLK	TestCode	SM2540C MOD: Total Dissolved Solids					
Client ID	PBW	Batch ID	25709	RunNo	34775					
Prep Date	6/7/2016	Analysis Date	6/8/2016	SeqNo	1073065	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-25709	SampType	LCS	TestCode	SM2540C MOD: Total Dissolved Solids					
Client ID	LCSW	Batch ID	25709	RunNo	34775					
Prep Date	6/7/2016	Analysis Date	6/8/2016	SeqNo	1073066	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

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





Quaternary faults

≈109 miles

WBDU 145

32.48127, -103.17963

EXHIBIT I

30 mi



Google earth

© 2013 Google
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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>

OM

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](#)

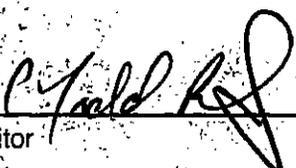
EXHIBIT 1

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

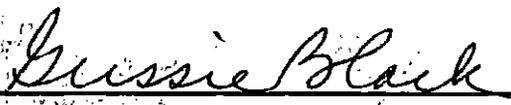
I, Todd Bailey, Editor of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
August 03, 2016
and ending with the issue dated
August 03, 2016.



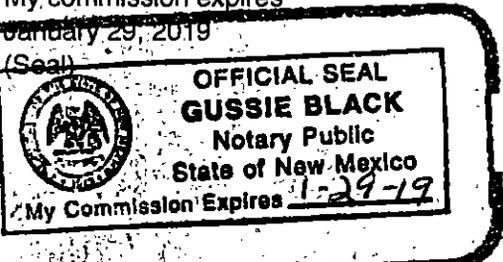
Editor

Sworn and subscribed to before me this
3rd day of August 2016.



Business Manager

My commission expires
January 29, 2019



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

LEGAL NOTICE
August 3, 2016

Apache Corporation is applying to drill the West Blinbery Drinkard Uplift well as a water injection well. The well is staked (BHL) 1780 FNL & 040 FEL, Sec. 17, T. 21S, R. 37E, Lea County, NM. BHL will be 1980 FNL & 765 FEL, 17-21S-37E. This is 3 miles north-northwest of Edifice, NM. It will inject water into the Drinkard (maximum injection pressure is 1120 psi) from 6,580 to 6,740. Injection will be at a maximum rate of 8,000 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) 498-8120. #31135

02108485

00179046

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



PERMITS WEST, INC.

PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

August 23, 2016

Chevron USA Inc.
P. O. Box 285
Houston TX 77001

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 145 well as 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 145 (BLM lease) ID = 6,856' MD

Proposed Injection Zone: Drinkard from 6,580' to 6,740'

SHL: 1780' FNL & 940' FEL Sec. 17, T. 21 S., R. 37 E., Lea County, NM

BHL: 1960' FNL & 765' FEL Sec. 17, T. 21 S., R. 37 E., Lea County, NM

Approximate Location: 3 air miles NNW of Eunice, NM

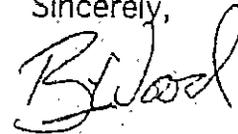
Applicant Name: Apache Corporation (432) 818-1062

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

0920 0220
0920 0220
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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 1.78
Total Postage and Fees	\$ 8.03
Sent To	Chevron
Street and Apt. No., or PO Box No.	PO Box 285
City, State, ZIP+4®	Houston TX 77001

PS Form 3800, April 2015 PSN 7530-01-000-9000 (See Reverse for Instructions)

EXHIBIT K

PERMITS WEST INC.

PROVIDING PERMITS for LAND USERS

37 Verano Loop, Santa Fe, New Mexico 87508 (505) 466-8120

August 16, 2016

BLM
620 E. Greene
Carlsbad NM 88220

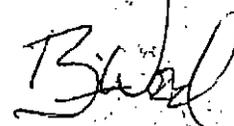
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Well Name: West Blinebry Drinkard Unit 145 (BLM lease) ID = 6,856' MD
Proposed Injection Zone: Drinkard from 6,580' to 6,740'
SHL: 1780' FNL & 940' FEL Sec. 17, T. 21 S., R. 37 E., Lea County, NM
BHL: 1960' FNL & 765' FEL Sec. 17, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 3 air miles NNW of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1062
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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

Please call me if you have any questions.

Sincerely,



Brian Wood

U.S. Postal Service
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee
\$ 3.30
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 Adult Signature Restricted Delivery \$

Postage
\$ 1.78
Total Postage and Fees
\$ 7.78

Sent To
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City, State, ZIP+4

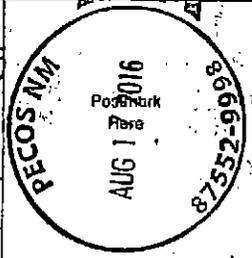


EXHIBIT K

August 16, 2016

Chevron USA Production Co.
 P. O. Box 1635
 Houston TX 77251

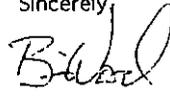
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 PS Form 3800, April 2016 PSN 7530-02-000-0047 See Reverse for Instructions

EXHIBIT K

August 16, 2016

Chevron USA Inc.
 6301 Deauville
 Midland TX 79706

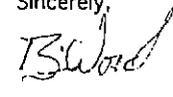
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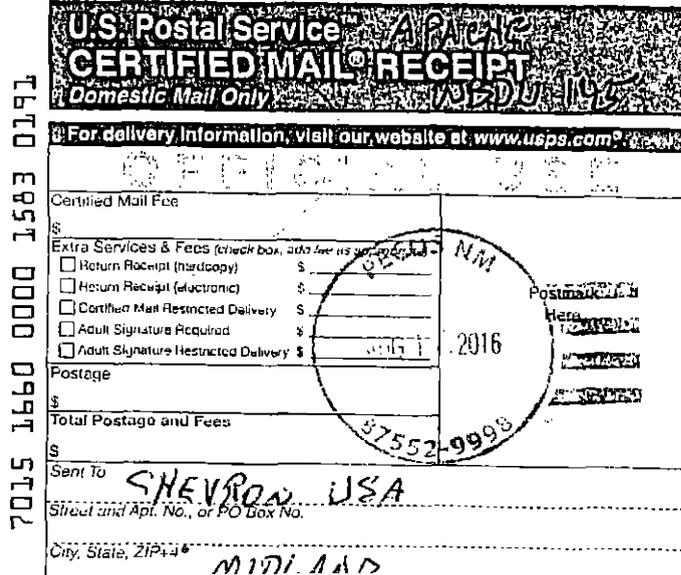
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Brian Wood



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 Street and Apt. No., or PO Box No.
 City, State, ZIP+4® **MIDLAND**

1610 091T 0000 091T 5102

August 16, 2016

ConocoPhillips
 P. O. Box 7500
 Bartlesville OK 74005

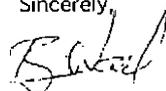
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Please call me if you have any questions.

Sincerely,



Brian Wood

August 16, 2016

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

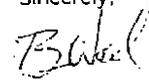
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Sincerely,



Brian Wood

U.S. Postal Service *APACHE WOOD*
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 Adult Signature Required \$
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Postage: \$0.00
 Total Postage and Fees: \$0.00

Sent To: *ConocoPhillips*
 Street and Apt. No., or PO Box No.: *BARTLESVILLE*
 City, State, ZIP+4: *OK 74005*

PECOS NM 2016
 47552-9998

EXHIBIT K

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 Return Receipt (electronic) \$
 Certified Mail Restricted Delivery \$
 Adult Signature Required \$
 Adult Signature Restricted Delivery \$

Postage: \$0.00
 Total Postage and Fees: \$0.00

Sent To: *J. H. HENDRIX CORP*
 Street and Apt. No., or PO Box No.: *110 N. MARIENFELD, SUITE 400*
 City, State, ZIP+4: *MIDLAND TX 79701*

PECOS NM 2016
 47552-9998

7015 1660 0000 0997 0221

August 16, 2016

Six Aeches Co.
P. O. Box 481
Midland TX 79702-0481

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Brian Wood

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 Return Receipt (electronic) \$
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Total Postage and Fees \$

Sent To **SIX AECHEES**
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City, State, ZIP+4[®] **MIDLAND**

PECOS NM
AUG 17 2016
Postmark Here
87552-9998

EXHIBIT K

August 16, 2016

Six Aeches Co.
P. O. Box 1327
Edmond OK 73083

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 Return Receipt (electronic) \$
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 Adult Signature Required \$
 Adult Signature Restricted Delivery \$

Postage \$
Total Postage and Fees \$

Sent To **SIX AECHEES**
Street and Apt. No., or PO Box No.
City, State, ZIP+4[®] **EDMOND OK**

PECOS NM
AUG 17 2016
Postmark Here
87552-9998

COMPLETE THIS SECTION

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

1. Article Addressed to:
Name
98220

9590 9403 0887 5223 6381 68
Apache - WBDU 145
7015 1660 0000 1583 0284

July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [Signature]
B. Received by (Printed Name)
C. Date of Delivery
8/22/16
D. Is delivery address different from item 1? If YES, enter delivery address below:

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:
Penroc Oil Corp.
P. O. Box 2769
Hobbs NM 88241

9590 9403 0887 5223 6382 05
Apache - WBDU 145
7015 1660 0000 1583 0245

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

COMPLETE THIS SECTION ON DELIVERY

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X [Signature]
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C. Date of Delivery
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D. Is delivery address different from item 1? If YES, enter delivery address below:

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Adult Signature Restricted Delivery
Certified Mail
Certified Mail Restricted Delivery
Collect on Delivery
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1. Article Addressed to:
Chevron USA Inc.
6301 Deauville
Midland TX 79706

9590 9403 0887 5223 6381 51
Apache - WBDU 145
7015 1660 0000 1583 0191

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

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Adult Signature Restricted Delivery
Certified Mail
Certified Mail Restricted Delivery
Collect on Delivery
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Insured Mail Restricted Delivery
Priority Mail Express
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1. Article Addressed to:
Six Aeches Co.
P. O. Box 1927
Edmond OK 73083

9590 9403 0887 5223 6382 29
Apache - WBDU 145
7015 1660 0000 1583 0265

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [Signature]
B. Received by (Printed Name)
C. Date of Delivery
8-25-16
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Certified Mail
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ConocoPhillips
P. O. Box 7500
Bartlesville OK 74005

9590 9403 0887 5223 6381 82
Apache - WBDU 145
7015 1660 0000 1583 0214

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [Signature]
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C. Date of Delivery
AUG 22 2016
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Adult Signature Restricted Delivery
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1. Article Addressed to:
Oxy USA WTP LP
6 Desta Dr., #6000
Midland TX 79705

9590 9403 0887 5223 6381 99
Apache - WBDU 145
7015 1660 0000 1583 0238

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

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Insured Mail Restricted Delivery
Priority Mail Express
Registered Mail
Registered Mail Restricted Delivery
Return Receipt for Merchandise
Signature Confirmation
Signature Confirmation Restricted Delivery

Domestic Return Receipt



ORDER TYPE WFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: 12-12-87

Well No. 245 Well Name(s): W B P 4

API: 30-0 28-43229 Spud Date: TAD New or Old: N (UIC Class II Primacy 03/07/1982)

Footages SYN 170' L 140' FEL 1340' 1560' L 140' FEL Lot _____ or Unit _____ Sec 17 Tsp 21S Rge 37E County LEG

General Location: 23 miles NEYNICE Pool: _____ Pool No.: 22500

BLM 100K Map: JAL Operator: Apache Corp OGRID: 873 Contact: Brian Wood agent

COMPLIANCE RULE 5.9: Total Wells: 2444 Inactive: 3 Fincl Assur: OK Compl. Order? NA IS 5.9 OK? Y Date: 9-08-2006

WELL FILE REVIEWED Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. Alter Conv. Logs in Imaging: NA

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>11 7/8 57 1/2"</u>	<u>1350</u>	Stage Tool	<u>450</u> Surface / Vis 4-1
Planned ___ or Existing ___ Interm/Prod	<u>7 7/8 5 1/2"</u>	<u>6456</u>	<u>4300</u>	<u>900</u> Surface / Vis 4-1
Planned ___ or Existing ___ Interm/Prod				
Planned ___ or Existing ___ Prod/Liner				
Planned ___ or Existing ___ Liner				
Planned ___ or Existing ___ OH <u>(PERF)</u>	<u>6 5/8 67 1/2"</u>		Inj Length	

Completion/Operation Details:

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Drilled TD	PBTD
Adjacent Unit: Litho. Struc. Por.		<u>DR</u>	<u>6486</u>	<u>6556</u>	
Confining Unit: Litho. Struc. Por.		<u>Abw</u>	<u>7152</u>		
Proposed Inj Interval TOP:					
Proposed Inj Interval BOTTOM:					
Confining Unit: Litho. Struc. Por.					
Adjacent Unit: Litho. Struc. Por.					

Div order 12-12-87

AOR: Hydrologic and Geologic Information

POTASH: R-111-P NA Noticed? BLM Sec Ord WIPP Noticed? Salt/Salado T: M8 B: 267 NW: Cliff House fm NA

FRESH WATER: Aquifer Quaternary Max Depth 28130' HYDRO AFFIRM STATEMENT By Qualified Person

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

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

Disposal Int: Inject Rate (Avg/Max BWPD): 2.56/3K Protectable Waters? NA Source: _____ System Closed or Open

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

AOR Wells: 1/2-M Radius Map? _____ Well List? _____ Total No. Wells Penetrating Interval: 476 Horizontals? NA

Penetrating Wells: No. Active Wells 25 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 8-03-2010 Mineral Owner Champion Surface Owner Chevron N. Date 8-22-2006

RULE 26.7(A): Identified Tracts? _____ Affected Persons: Chevron, John Hendrix, Oxy, Sib, Richard P N. Date 8-22-2006

Order Conditions: Issues: NYN C-13-L OF 5 1/2" / SURFACE

Add Order Cond: _____