Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
5/03/2017	MAM	WFX	pMAM1711235Q614

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Geological & 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

Applicant: Apache Corporation **OGRID Number:** 873
Well Name: West Blinebry Drinkard Unit 179 **API:** 30-025-43528
Pool: Eunice; BLI-TU-DR, North **Pool Code:** 22900

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

WFX-965

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐NSL ☐NSP (PROJECT AREA) ☐NSP (PRORATION UNIT) ☐SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐DHC ☐CTB ☐PLC ☐PC ☐OLS ☐OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☒WFX ☐PMX ☐SWD ☐IPI ☐EOR ☐PPR

RECEIVED MAY 3 2017

FOR OCD ONLY
☑ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☒ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☒ Application requires published notice
D. ☒ Notification and/or concurrent approval by SLO
E. ☒ Notification and/or concurrent approval by BLM
F. ☒ Surface owner
G. ☒ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

3) **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

5-2-17
Date

505 466-8120
Phone Number

brian@permitswest.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

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 179
30-025-43528

VII. Attach data on the proposed operation, including:

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

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

IX. Describe the proposed stimulation program, if any.

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

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

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

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

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

NAME: BRIAN WOOD TITLE: CONSULTANT

SIGNATURE: B Wood DATE: APRIL 21, 2017

E-MAIL ADDRESS: brian@permitswest.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

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.

Side 1

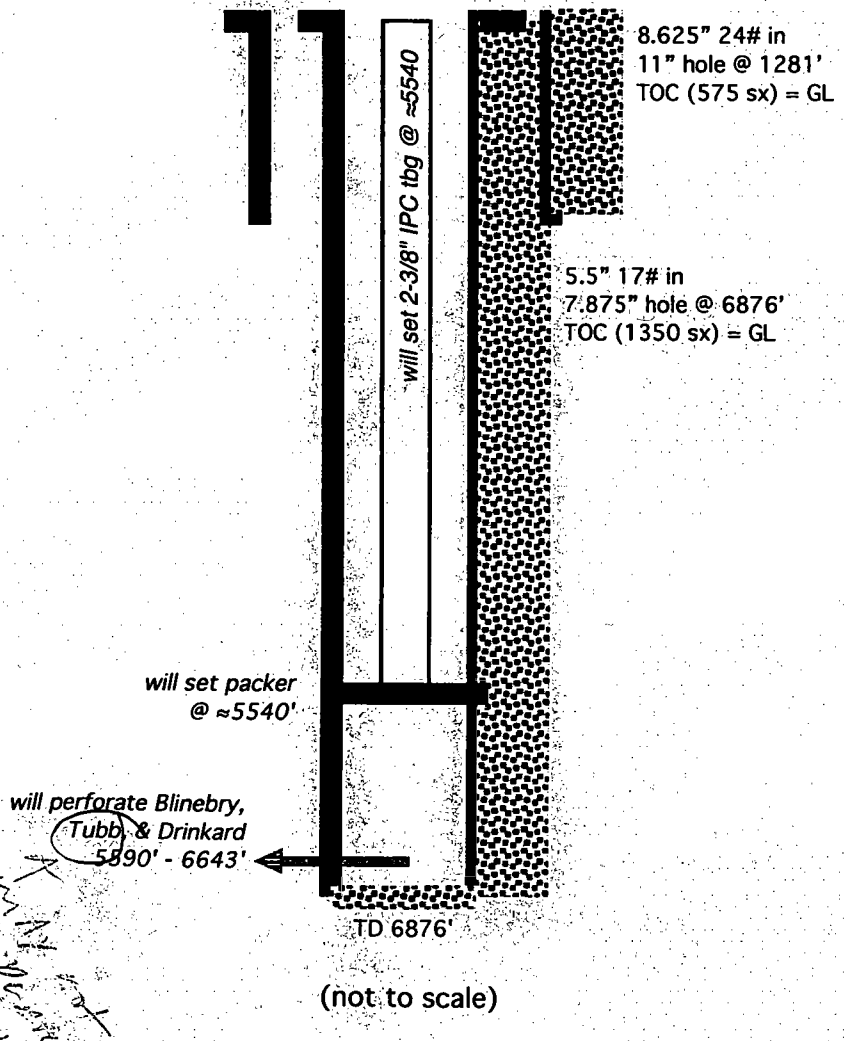
INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

WELL NAME & NUMBER: WEST BLINEBRY DRINKARD UNIT 179

WELL LOCATION:	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
	SHL: 770' FSL & 1740' FEL	O	16	21 S	37 E
	BHL: 870' FSL & 2050' FEL	O	16	21 S	37 E

WELLBORE SCHEMATIC



(not to scale)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11" Casing Size: 8.625"

Cemented with: 575 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: CIRC. 166 SX

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: 1350 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: CIRC. 238 SX

Total Depth: 6876'

Injection Interval

5590 feet to 6643'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

Type of Packer: LOCK SET INJECTION

Packer Setting Depth: 5540'

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: BLINEBRY, TUBB, & 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 (3711'), SAN ANDRES (3910'),PADDOCK (5183)

   UNDER: ABO (6653')

WEST BLINEBRY DRINKARD UNIT 179
SHL: 770 FSL & 1740 FEL
BHL: 870 FSL & 2050 FEL
SEC. 16, T. 21 S., R. 37 E., LEA COUNTY, NM 30-025-43528

I. Purpose is to activate a newly drilled water injection well to increase oil recovery. The well will inject (5590' - 6643') into the Blinebry, Tubb, and Drinkard, which are part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900). The well and zones 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 15 subsequent WFX approvals. This is an active water flood. Forty-two water injectors are active or new in the Unit. Well was directionally drilled due to surface use conflicts (7 other wells and 11 State Land Office rights-of-way are in the SWSE Section 16).

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: NMSLO B081050004
Lease Size: 160 acres (see Exhibit A for maps and C-102)
Closest Lease Line from BHL: 450'
Lease Area: S2S2 of Section 16, T. 21 S., R. 37 E.
Unit Number: 300341
Unit Size: 2,480 acres
Closest Unit Line from BHL: 870'
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 (8.625", 24#) was set at 1281' in an 11" hole with 575 sacks, of which 166 sacks circulated to the surface.

Production casing (5.5", 17#) was set at 6876' (TD) in a 7.875" hole with 1350 sacks, of which 238 sacks circulated to the surface.

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

A. (3) Tubing specifications are 2.375", J-55, 4.7#, and IPC. Setting depth will be ≈5540'. (Injection interval will be 5590' to 6643'.)

A. (4) A lock set injection packer will be set at ≈5540' (≈50' above the highest proposed perforation of 5590').

B. (1) Injection zone will be the Blinebry, Tubb, and Drinkard carbonates. The zones are part of the Eunice; Blinebry-Tubb-Drinkard, North Pool. Estimated fracture gradient is ≈0.56 psi per foot.

B. (2) Injection interval will be 5590' to 6643'. The well is a cased hole.

B. (3) Well was drilled (March-April 2017) as a water injection well.

B. (4) Well will be perforated from 5590' to 6643' with 2 shots per foot. Shot diameter = 0.40".

B. (5) Next higher oil or gas zone in the area of review is the San Andres. Its bottom is at 5121'. Injection will occur in the Blinebry - Drinkard interval. Blinebry top is at 5590'. Injection interval will be 5590' to 6643'. Injection interval is part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (NMOCD pool code number = 22900). San Andres is part of the Hare; San Andres (Gas) Pool (NMOCD pool code number = 78080).

Next lower oil or gas zone in the area of review is the Wantz; Abo (Pool Code = 62700). Its top is at 6653'. Deepest perforation in the injection interval will be 6643'.

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 15 subsequent water flood expansions. Closest Unit boundary is 870' south from the BHL. Five injection wells are within a half-mile radius, all of which are in the Unit.

V. Exhibit B shows 53 existing wells (46 oil or gas wells + 5 water injection wells + 2 P&A wells) within a half-mile radius, regardless of depth. Exhibit C shows 806 existing wells (590 oil or gas wells + 91 injection or disposal wells + 69 P & A wells + 55 water wells + 1 brine well) within a two-mile radius.

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

VI. Fifty-three existing or planned wells are within a half-mile radius (Exhibit F). Thirty-six of the wells penetrated the Blinebry, Tubb, or Drinkard. The penetrators include 30 oil or gas wells, 5 water injection wells, and 1 P&A well. A table abstracting the well construction details and histories of the penetrators are in Exhibit G. A diagram of the P&A penetrator is also in Exhibit G.

VII. 1. Average injection rate will be ≈2500 bwpd.
Maximum injection rate will be 3000 bwpd.

2. System will be closed. The well will be tied into the existing Unit pipeline system. The system consists of a branched injection system with centrifugal injection pumps.

3. Average injection pressure will be ≈1000 psi. Maximum injection pressure will be 1118 psi (= 0.2 psi/foot x 5590' (top perforation)).

4. Water source will be water pumped from two existing ≈4000' deep San Andres water supply wells, plus produced water from Blinebry, Tubb, and Drinkard zones. The source water and produced water are collected in separate skim tanks. Both 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 45,532,122 barrels that have been injected to date in the Unit.

	NEDU 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/	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. The Blinebry, Tubb, and Drinkard currently produce from 123 active or new oil wells in the Unit. Project goal is 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, 1062' 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 108 Blinebry injection wells, 126 Tubb injection wells, and 154 Drinkard injection wells in the state. Some of these wells inject into 2 or more of these zones. 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 = 1224'
Tansill = 2447'
Yates = 2581'
Seven Rivers = 2847'
Queen = 3406'
Penrose = 3638'
Grayburg = 3711'
San Andres = 3910'
Glorieta = 5122'
Paddock = 5183'
Blinebry = 5590'
Tubb = 6076'
Drinkard = 6395'
Abo = 6653'
Total Depth = 6876'

State Engineer (Exhibit H) records indicate 6 water wells are within a mile of the SHL. Only two of the six were found during a March 31, 2017 field inspection. One well (CP 00729 POD 1) was sampled and one (CP 00554) was dry. Deepest water well within a mile (1610 meter) radius is 8130'. This is one of 3 water wells drilled by Shell Western E&P within a mile that are ≥6633' deep. However, water-bearing strata are 4010' - 4925' deep in the 3 wells. This range is within the San Andres. The other 3 water wells range in depth from 35' to 80'. No existing underground drinking water sources are below the injection interval within a mile radius. The well is 2-1/2 miles outside and south of the Ogallala aquifer boundary.

There will be >5000' of vertical separation and >1000' 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 (200 wells) or disposed (8 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.

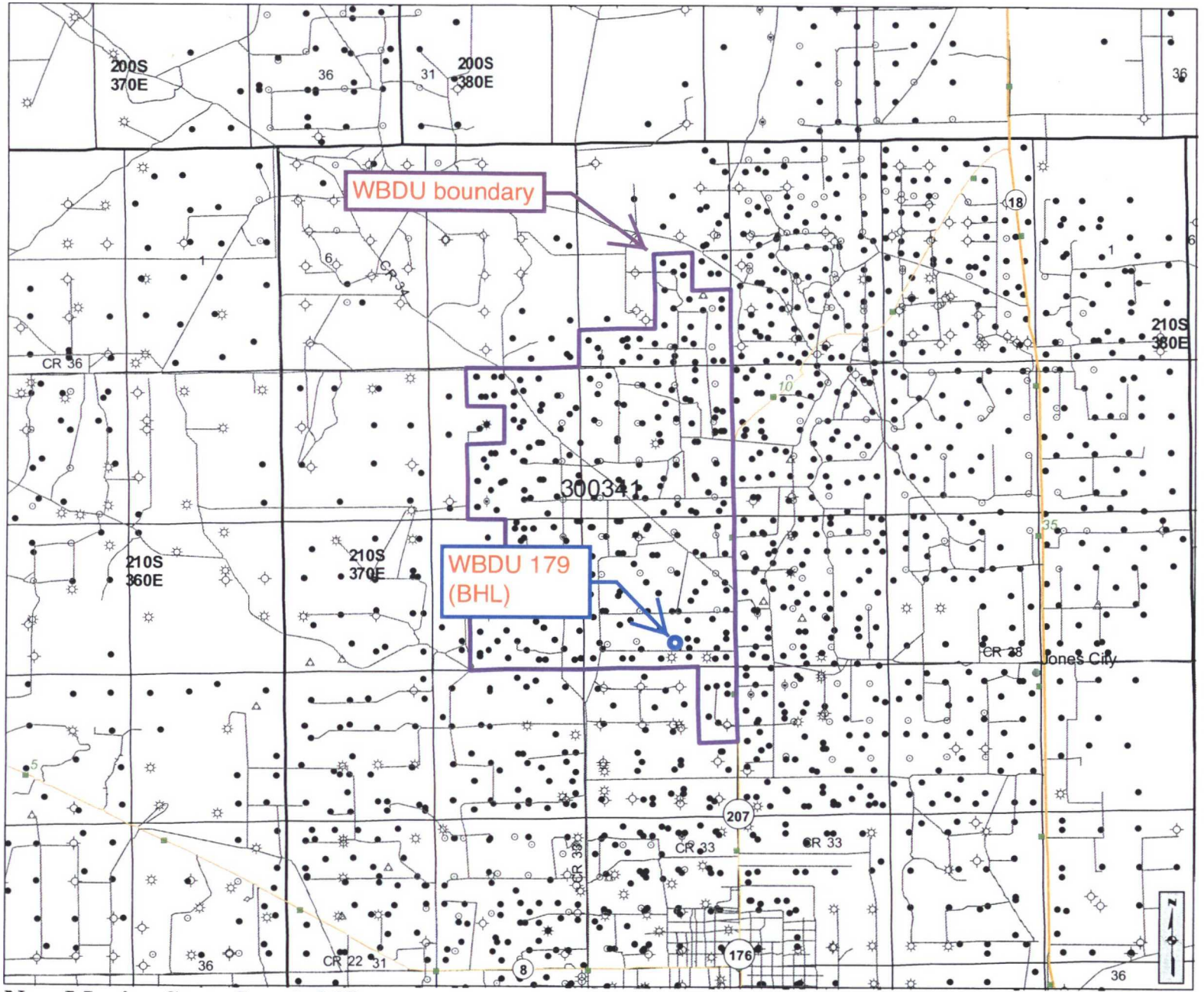
X. A quad combo log (GR-neutron-density-PE-caliper-sonic-resistivity) was run across the zone of interest. FR-neutron log was run to surface. All logs will be submitted.

XI. One active fresh water well is within a mile. Analyses from that well (Decky and ≈2800' east), Kerbo (≈8000 WNW), and Simms (≈9500' west) are attached (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 108 miles southwest (Exhibit J).

There are 108 Blinebry injectors, 108 Tubb injectors, and 154 Drinkard injectors active or new in New Mexico. Other previously approved water flood expansions (WFX-) in the Unit include 854, 857, 913, 921, 922, 923, 924, 948, 952, 954, 955, 958, 958-A, 959, and 960.

XIII. A legal ad (see Exhibit K) was published on April 5, 2017. Notice (this application) has been sent (Exhibit L) to the surface owner (NM State Land Office), BLM, the offset Blinebry, Tubb, and Drinkard operators (Stephens & Johnson), and lessees of record (Chevron USA, Elliott Hall Co., Elliott Industries, Occidental Permian).



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

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

State Trust Lands
- Surface Estate
- Subsurface Estate
- Surface and Subsuface Estate

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

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

NMOCD Oil and Gas Wells
- CO^2
- Gas
- Injection
- Miscellaneous
- Oil
- Salt Water Disposal
- Water
- DA or PA

New Mexico State Land Office
Oil, Gas and Minerals

0 0.2 0.4 0.8 1.2 1.6 Miles

Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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

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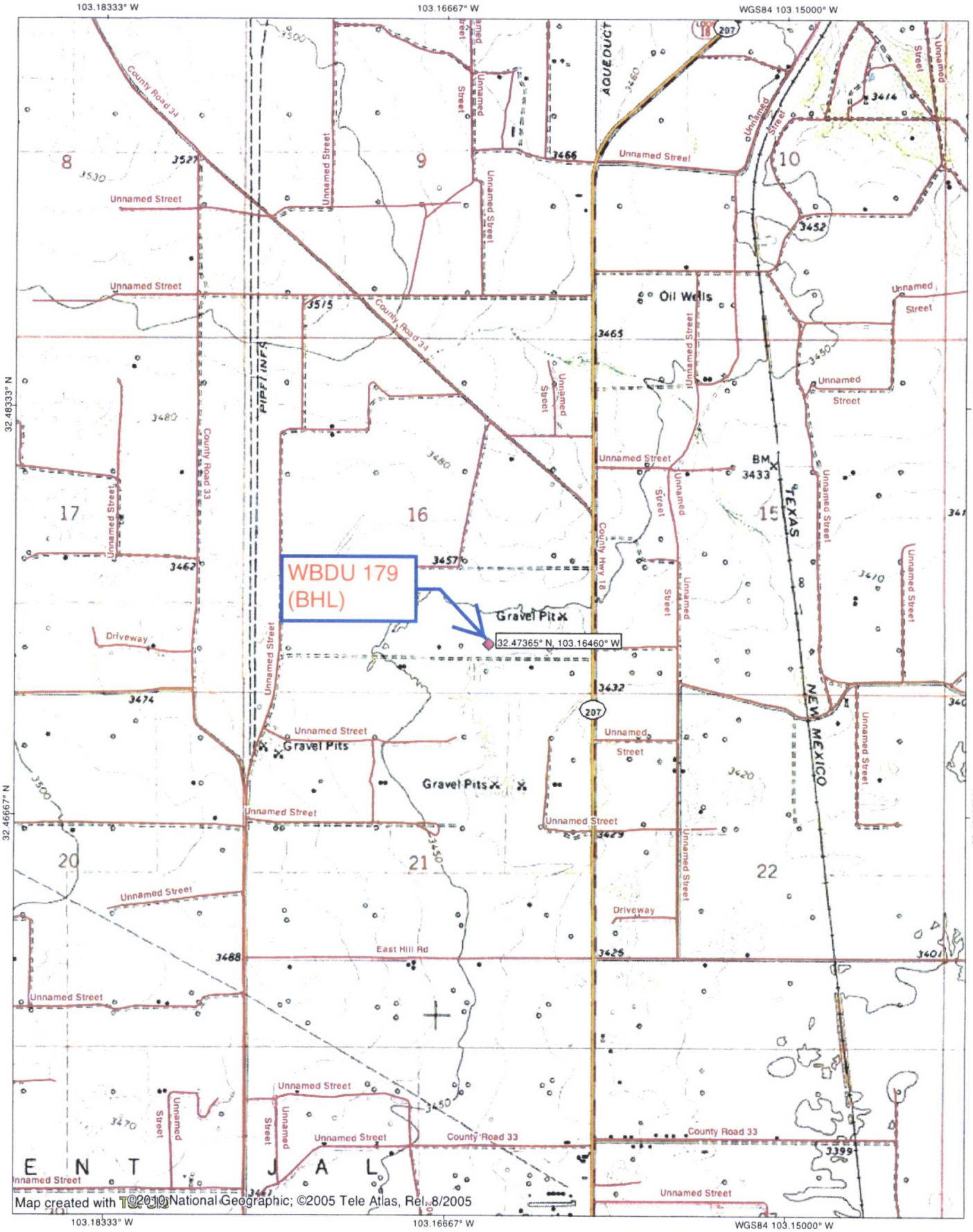
EXHIBIT A

www.nmstatelands.org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103.16667° W
WGS84 103.15000° W
32.48333° N
32.46667° N
WBDU 179
(BHL)
32.47365° N, 103.16460° W
Gravel Pit
Gravel Pits
Oil Wells
BM 3433
TEXAS
NEW MEXICO
AQUEDUCT
PIPELINES
County Road 33
County Road 34
County Hwy 18
East Hill Rd
Unnamed Street
Driveway
8
9
10
15
16
17
20
21
22
E N T J A L
Map created with TOPO! ©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005
NATIONAL GEOGRAPHIC
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 miles
0.0 0.5 1.0 km
EXHIBIT A
TN MN
6.5°
04/15/17

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, Aztec, 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

HOBBS OCD
JAN 12 2017
RECEIVED

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	2 Pool Code	3 Pool Name
30-025-43528	22900	EUNICE; BLI-TU-DR, NORTH

4 Property Code	5 Property Name	6 Well Number
37346	WEST BLINEBRY DRINKARD UNIT	179

7 OGRID NO.	8 Operator Name	9 Elevation
873	APACHE CORPORATION	3442'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
O	16	21S	37E		770	SOUTH	1740	EAST	LEA

11 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
O	16	21S	37E		870	SOUTH	2050	EAST	LEA

12 Dedicated Acres	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.

16

CORNER DATA
NAD 27 GRID – NM EAST

A: CALCULATED CORNER
N: 537194.4 – E: 856899.7

B: FOUND BRASS CAP "1911"
N: 542476.3 – E: 856839.2

C: FOUND BRASS CAP "1913"
N: 542502.6 – E: 859480.8

D: FOUND 5/8" REBAR W/ ALUMINUM CAP
N: 542528.3 – E: 862122.5

E: FOUND SPIKE NAIL
N: 537249.0 – E: 862185.4

F: FOUND BRASS CAP "1911"
N: 537222.9 – E: 859542.2

GEODETIC DATA
NAD 27 GRID – NM EAST

SURFACE LOCATION
N: 538001.7 – E: 860436.5

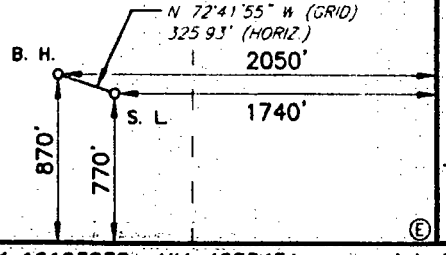
LAT: 32.47365172° N
LONG: 103.16460146° W

LAT= 32°28'25.1462" N
LONG= 103°09'52.5653" W

BOTTOM HOLE
N: 538098.6 – E: 860125.4

LAT: 32.47392745° N
LONG: 103.16560676° W

LAT= 32°28'26.1388" N
LONG= 103°09'56.1843" W



17 OPERATOR CERTIFICATION

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.

Sorina L Flores 1/9/2017
Signature Date

SORINA L. FLORES
Printed Name

sorina.flores@apachecorp.com
E-mail Address

18 SURVEYOR CERTIFICATION

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.

11-29-2016
Date of Survey

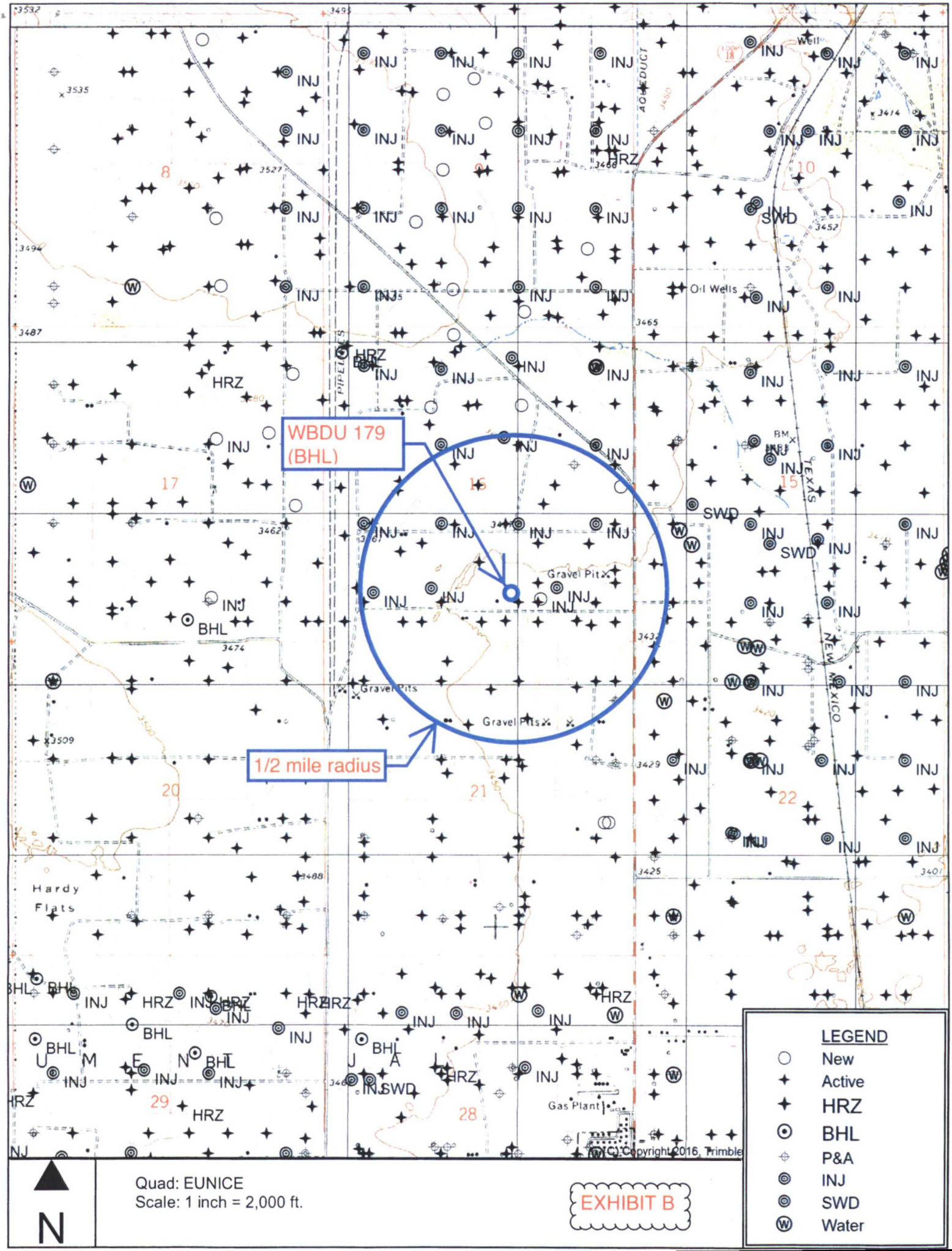
Signature and Seal of Professional Surveyor

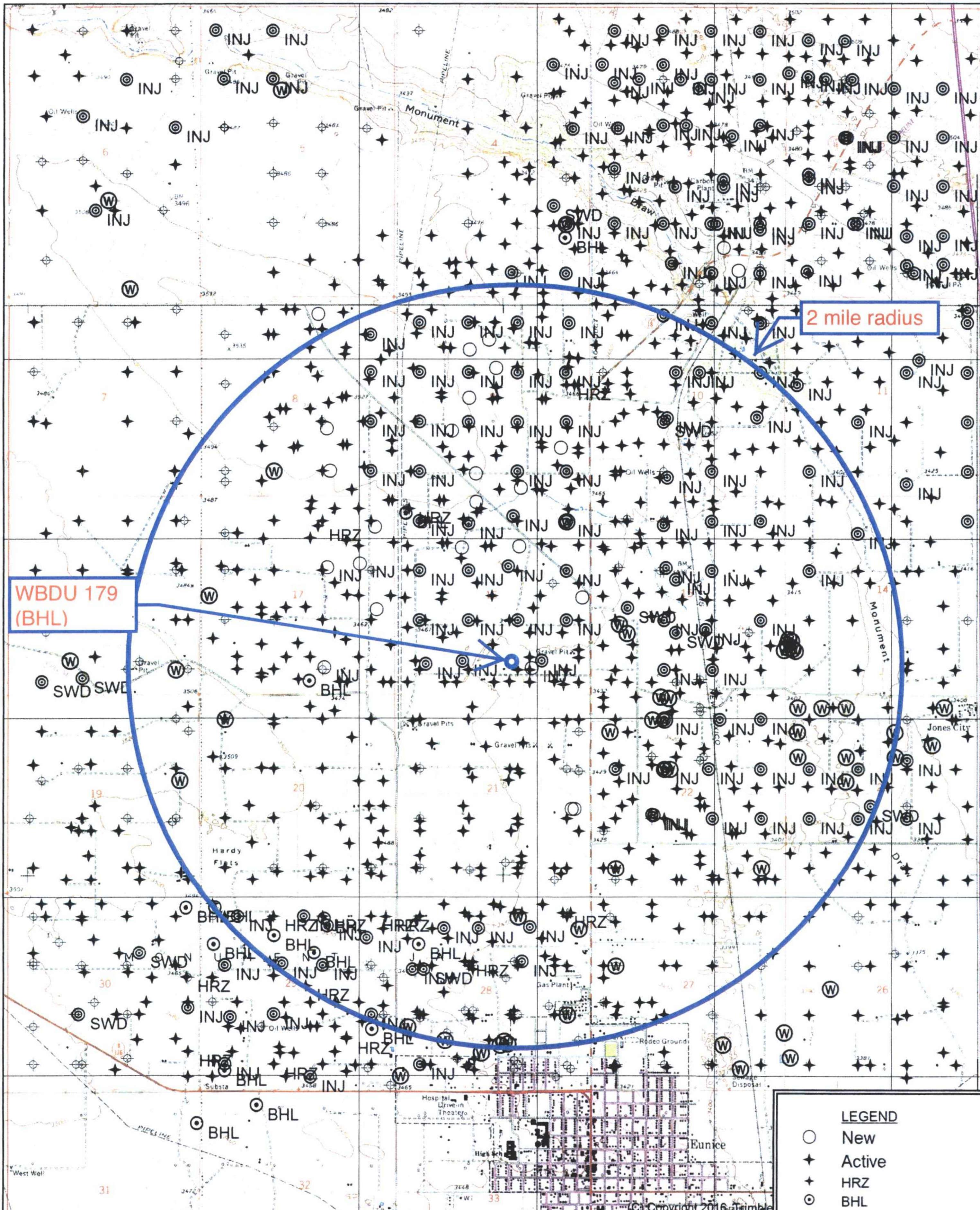
ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR

19680
Certificate Number

EXHIBIT A

RRC – Firm No.: TX 10193838 NM 4655451 – Job No.: LS1611391

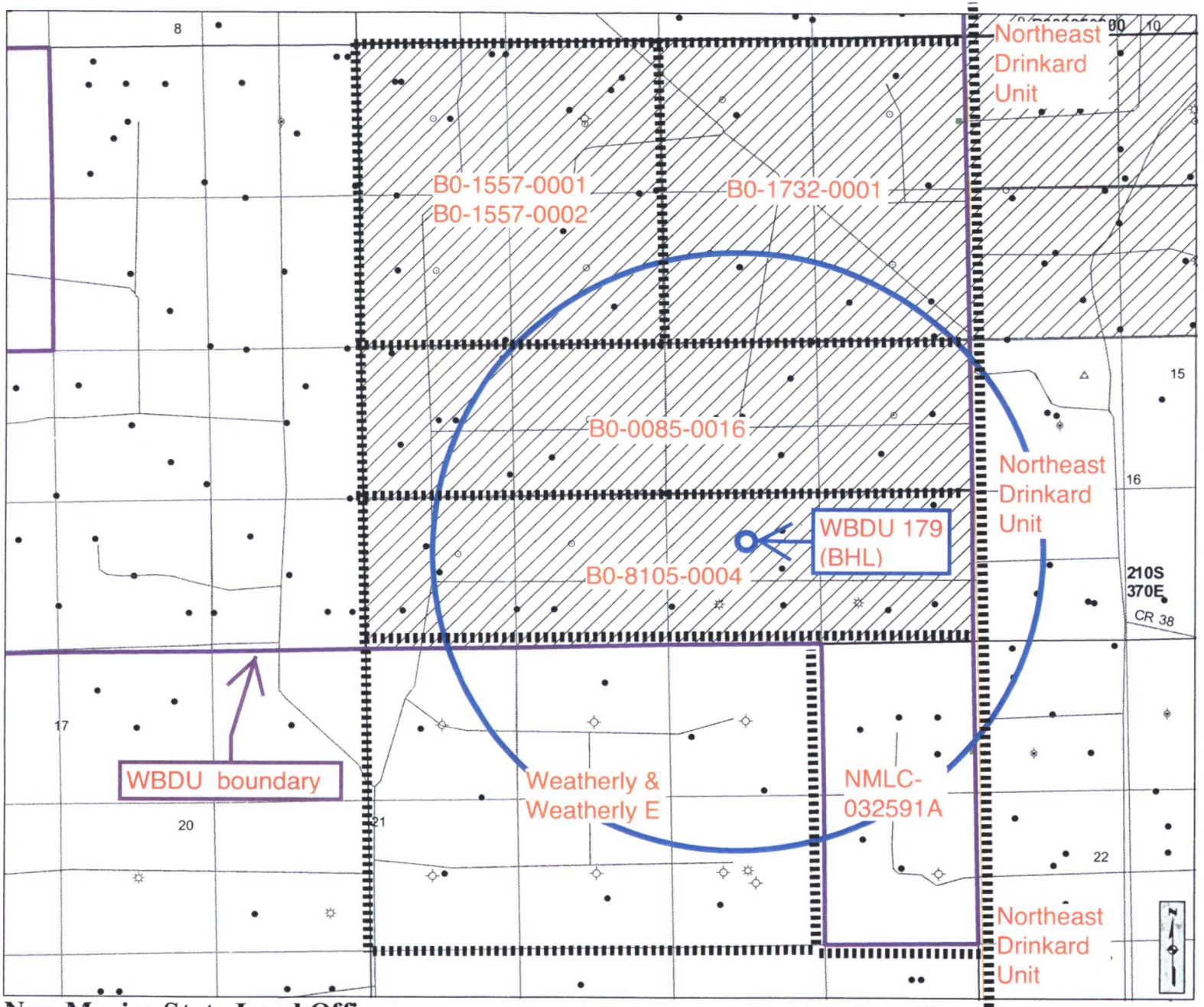

WBDU 179
(BHL)
1/2 mile radius
LEGEND
New
Active
HRZ
BHL
P&A
INJ
SWD
Water
N
Quad: EUNICE
Scale: 1 inch = 2,000 ft.
EXHIBIT B
(C) Copyright 2016, Trimble



N

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

EXHIBIT C



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

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

State Trust Lands
- Surface Estate
- Subsurface Estate
- Surface and Subsuface Estate

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

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

NMOCD Oil and Gas Wells
- CO^2
- Gas
- Injection
- Miscellaneous
- Oil
- Salt Water Disposal
- Water
- 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

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

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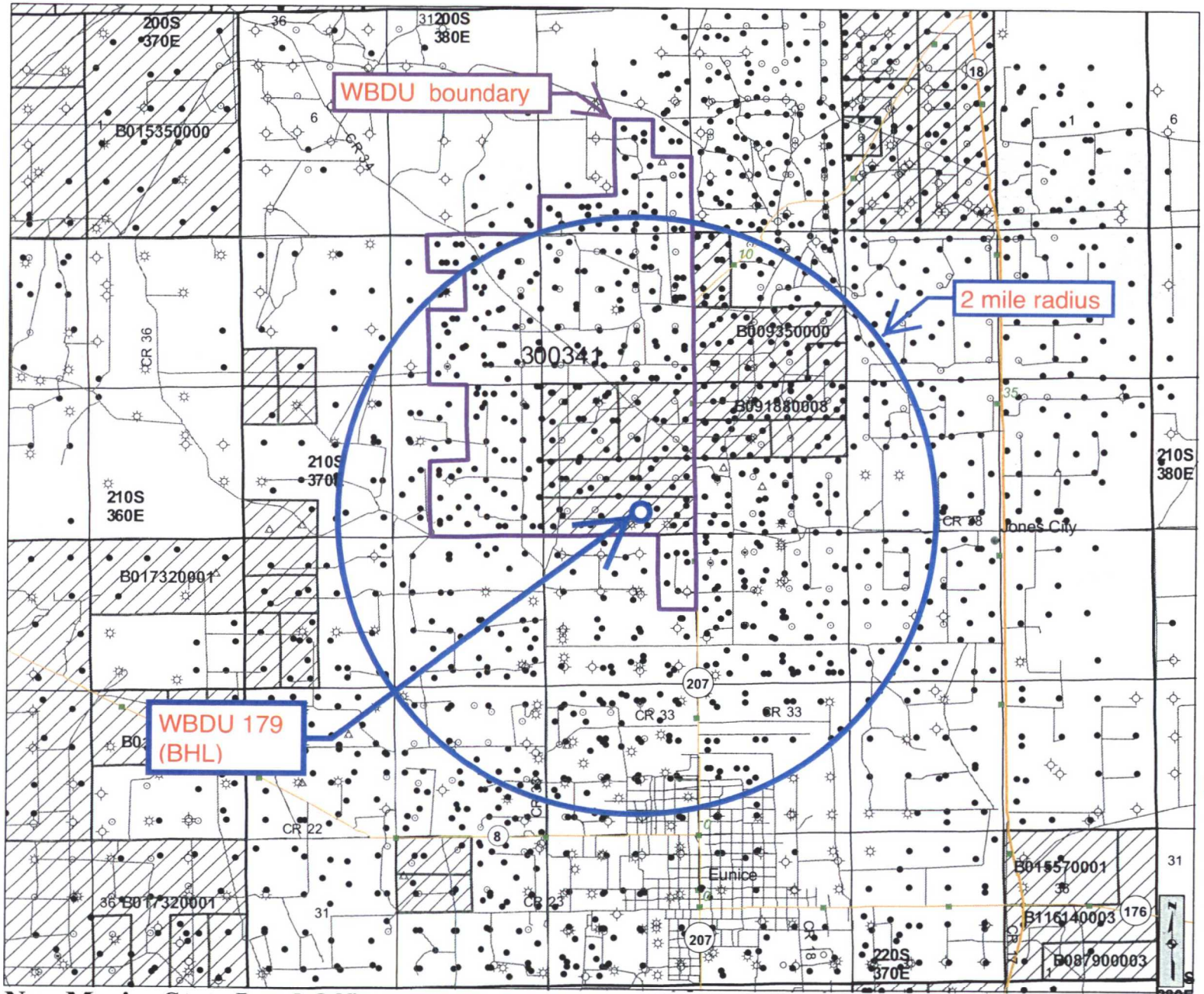
EXHIBIT D

www.nmstatelands.org

Aliquot Parts in Area of Review (T21S, R37E)	Lessor	Lease	Lessee(s) of Record	Blinebry, Tubb, &/or Drinkard Operator
W2SW4 Sec. 15	fee	NEDU	Apache	Apache
S2NE4 Sec. 16	NMSLO	B0-1732-0001	Chevron USA	Apache
S2NW4 Sec. 16	NMSLO	B0-1557-0001	Occidental Permian	Apache
S2NW4 Sec. 16	NMSLO	B0-1557-0002	Apache	Apache
N2S2 Sec. 16	NMSLO	B0-0085-0016	Apache	Apache
S2S2 Sec. 16	NMSLO	B0-8105-0004	Apache	Apaches
E2NE4 Sec. 21	BLM	NMLC-032591A	Apache, Elliott Hall Co, & Elliott Industries	Apache
W2NE4, N2NW4, & SENW Sec. 21	fee	Weatherly & Weatherly E	Stephens & Johnson	Stephens & Johnson
NWNW Sec. 22	fee	NEDU	Apache	Apache

EXHIBIT D



New Mexico State Land Office

Oil, Gas and Minerals

0 0.2 0.4 0.8 1.2 1.6 Miles

Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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

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EXHIBIT E

www.nmstatelands.org

WELLS WITHIN 1/2 MILE OF WBDU 179, REGARDLESS OF DEPTH

API	OPERATOR	WELL	TYPE	UNIT-SECTION-T21S-R37E	TVD	ZONE	FEET FROM WBDU 179
3002539605	Apache	State Land 15 018	O	O-16	4382	Penrose Skelly; Grayburg	142
3002538378	Apache	State Land 15 016	O	O-16	4135	Penrose Skelly; Grayburg	238
3002506632	Apache	WBDU 088	O	O-16	6660	Eunice; Bli-Tu-Dr, N	268
3002537535	Apache	WBDU 092	I	O-16	7284	Eunice; Bli-Tu-Dr, N	435
3002520311	Apache	WBDU 091	O	O-16	7300	Eunice; Bli-Tu-Dr, N	492
3002537482	Apache	State Land 15 013	G	O-16	4392	Penrose Skelly; Grayburg	624
3002537201	Apache	WBDU 079	O	J-16	7310	Eunice; Bli-Tu-Dr, N	848
3002537496	Apache	State Land 15 012	G	P-16	4415	Penrose Skelly; Grayburg	863
3002537536	Apache	WBDU 093	O	O-16	7102	Eunice; Bli-Tu-Dr, N	978
3002538415	Apache	WBDU 084	O	K-16	6835	Eunice; Bli-Tu-Dr, N	1050
3002506633	Apache	WBDU 089	O	P-16	6665	Eunice; Bli-Tu-Dr, N	1114
3002539300	Apache	WBDU 115	O	P-16	7022	Eunice; Bli-Tu-Dr, N	1119
3002506618	Apache	WBDU 077	I	J-16	6701	Eunice; Bli-Tu-Dr, N	1192
3002535765	Apache	State DA 008	O	J-16	4200	Penrose Skelly; Grayburg	1253
3002537916	Apache	State DA 013	O	I-16	4398	Penrose Skelly; Grayburg	1305
3002539449	Apache	State Land 15 017	O	P-16	4415	Penrose Skelly; Grayburg	1434
3002539963	Apache	WBDU 114	O	P-16	6970	Eunice; Bli-Tu-Dr, N	1480
3002506722	Stephens & Johnson	Weatherly 004	O	B-21	6612	Blinebry (Oil)	1486
3002506634	Apache	WBDU 090	O	P-16	8261	Eunice; Bli-Tu-Dr, N	1515
3002536786	Apache	State DA 010	O	J-16	4345	Penrose Skelly; Grayburg	1515

WELLS WITHIN 1/2 MILE OF WBDU 179, REGARDLESS OF DEPTH

3002506631	Apache	State Land 15 002	O	N-16	6700	Penrose Skelly; Grayburg	1528
3002506619	Apache	WBDU 078	I	I-16	6644	Eunice; Bli-Tu-Dr, N	1607
3002539381	Apache	WBDU 127	O	A-21	6878	Eunice; Bli-Tu-Dr, N	1701
3002541549	Apache	WBDU 154	I	N-16	6952	Eunice; Bli-Tu-Dr, N	1716
3002535516	Apache	State DA 007	O	K-16	4200	Penrose Skelly; Grayburg	1729
3002535523	Apache	Weatherly 21 002	O	B-21	7152	Penrose Skelly; Grayburg	1751
3002536646	Apache	Weatherly 21 005	O	C-21	4250	Penrose Skelly; Grayburg	1819
3002506716	Apache	WBDU 095	O	A-21	6630	Eunice; Bli-Tu-Dr, N	1840
3002506617	Apache	State DA 005	O	I-16	8330	Paddock	1850
3002538231	Apache	WBDU 082	O	J-16	6875	Eunice; Bli-Tu-Dr, N	1899
3002506616	Apache	WBDU 076	I	K-16	6654	Eunice; Bli-Tu-Dr, N	1922
3002537365	Apache	State Land 15 008	O	N-16	4435	Penrose Skelly; Grayburg	1922
3002539151	Apache	Elliott A 010	O	A-21	4410	Penrose Skelly; Grayburg	2013
3002536787	Apache	State DA 011	O	K-16	4350	Penrose Skelly; Grayburg	2037
3002538802	Stephens & Johnson	Weatherly 009	O	B-21	6696	Eunice; Bli-Tu-Dr, N	2053
3002538230	Apache	WBDU 081	O	K-16	6793	Eunice; Bli-Tu-Dr, N	2072
3002506721	Stephens & Johnson	Weatherly 003	O	C-21	6624	Blinebry (Oil)	2113
3002537243	Apache	NEDU 721	O	M-15	6850	Eunice; Bli-Tu-Dr, N	2157
3002537537	Apache	WBDU 094	O	N-16	7290	Eunice; Bli-Tu-Dr, N	2237
3002536806	Apache	NEDU 720	O	D-22	6850	Eunice; Bli-Tu-Dr, N	2278
3002537834	Chevron	Harry Leonard NCT E 008	P&A	H-16	4300	Penrose Skelly; Grayburg	2291
3002506718	John H Hendrix	Elliott A 003	P&A	A-21	7859	Blinebry (Oil)	2297

WELLS WITHIN 1/2 MILE OF WBDU 179, REGARDLESS OF DEPTH

3002539686	Apache	Argo A 014	O	D-22	4400	Penrose Skelly; Grayburg	2355
3002506608	Apache	Argo 012	O	M-15	8035	Penrose Skelly; Grayburg	2357
3002542537	Apache	WBDU 164	O	H-16	Plan: 7000	Plan: Eunice; Bli-Tu-Dr, N	2363
3002538414	Apache	WBDU 083	O	L-16	6850	Eunice; Bli-Tu-Dr, N	2365
3002538801	Stephens & Johnson	Weatherly 010	O	F-21	6730	Eunice; Bli-Tu-Dr, N	2417
3002509911	Apache	NEDU 702	O	M-15	6646	Eunice; Bli-Tu-Dr, N	2435
3002506620	Chevron	Harry Leonard NCT E 001	O	G-16	6670	Penrose Skelly; Grayburg	2502
3002536725	Apache	State C Tract 12 019	O	F-16	4350	Penrose Skelly; Grayburg	2521
3002506624	Chevron	Harry Leonard NCT E 005	O	H-16	8220	Penrose Skelly; Grayburg	2591
3002539152	Apache	Elliott A 011	O	H-21	5656	Penrose Skelly; Grayburg	2611
3002541548	*Apache*	*WBDU 168*	*I*	*G-16*	*6982*	*Eunice; Bli-Tu-Dr, N*	*2687*

EXHIBIT F

Sorted by distance from WBDU 179

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 088	5/13/47	6660	Eunice; Bli-Tu-Dr, N	O	17	13.375	215	250 sx	no report	N/A
30-025-06632					11	8.625	2866	1600 sx	no report	N/A
O-16-21S-37E					7.75	5.5	6659	500 sx	no report	N/A
WBDU 092	12/1/05	7284	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1197	575 sx	GL	Circ 171 sx
30-025-37535					7.875	5.5	7284	1150 sx	650	CBL
O-16-21S-37E										
WBDU 091	9/19/63	7300	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	252	300 sx	GL	Circ 25 sx
30-025-20311					11	8.625	2990	660 sx	GL	Circ 100 sx
O-16-21S-37E					7.875	5.5	7298	895 sx	1120	Temp Survey
WBDU 079	6/24/05	7310	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1289	600 sx	GL	Circ 92 sx
30-025-37201					7.875	5.5	7310	1600 sx	270	CBL
J-16-21S-37E										

EXHIBIT G

Sorted by distance from WBDU 179

WBDU 093	12/14/05	7102	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1225	550 sx	GL	Circ 129 sx
30-025-37536					7.875	5.5	7102	1250 sx	1940	CBL
O-16-21S-37E										
WBDU 084	7/3/07	6835	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1265	650 sx	GL	Circ
30-025-38415					7.875	5.5	6835	1400 sx	890	CBL
K-16-21S-37E										
WBDU 089	11/24/47	6665	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	219	250 sx	no report	N/A
30-025-06633					11	8.625	2864	1700 sx	no report	N/A
P-16-21S-37E					7.875	5.5	6664	400 sx	no report	N/A
WBDU 115	5/8/10	7225	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1273	650 sx	GL	Circ
30-025-39300					7.875	5.5	7225	1300 sx	GL	Circ
P-16-21S-37E										

EXHIBIT G

Sorted by distance from WBDU 179

WBDU 077	7/4/47	6250	Eunice; Bli-Tu-Dr, N	O	17.25	13.375	213	200 sx	GL	Circ
30-025-06618					11	8.625	2607	1550 sx	580	Temp Survey
J-16-21S-37E					7.375	5.5	6630	500 sx	2845	Temp Survey
WBDU 114	12/19/10	6970	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1297	665 sx	GL	Circ 171 sx
30-025-39963					7.875	5.5	6952	1195 sx	800	CBL
P-16-21S-37E										
Weatherly 004	8/7/81	6612	Blinebry (Oil)	O	17.25	13.375	210	218 sx	GL	Circ
30-025-06722					11	8.625	285	1200 sx	GL	Circ
B-21-21S-37E					7.75	5.5	6610	700 sx	2300	Calc
WBDU 090	4/12/52	8261	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	258	250 sx	GL	Circ
30-025-06634					8.625	8.375	2861	1500 sx	GL	Circ
P-16-21S-37E					7.75	5.5	8259	400 sx	3376	Temp Survey

Sorted by distance from WBDU 179

State Land 15 002	3/17/47	6700	Penrose Skelly; Grayburg	O	17	13.375	334	300 sx	no report	N/A
30-025-06631					11	8.625	2864	1600 sx	no report	N/A
N-16-21S-37E					7.75	5.5	6699	500 sx	4670	Calc
WBDU 078	8/12/47	6644	Eunice; Bli-Tu-Dr, N	I	17.25	13.375	213	200 sx	GL	Circ
30-025-06619					11	8.625	2807	1550 sx	GL	Circ
I-16-21S-37E					7.375	5.5	6644	500 sx	GL	Circ
WBDU 127	9/6/09	6878	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1254	650 sx	GL	Circ
30-025-39381					7.875	5.5	6878	1250 sx	190	CBL
A-21-21S-37E										
WBDU 154	11/6/14	6952	Eunice; Bli-Tu-Dr, N	I	11	8.625	1276	575 sx	GL	Circ 182 sx
30-025-41549					7.875	5.5	6955	1060 sx	GL	Circ 250 sx
N-16-21S-37E										

EXHIBIT G

Sorted by distance from WBDU 179

Weatherly 21 002	4/27/02	7152	Penrose Skelly; Grayburg	O	14.75	11.75	395	305 sx	GL	Circ 25 sx to pit
30-025-35523					11	8.625	3003	850 sx	GL	Circ 50 sx to pit
B-21-21S-37E					7.875	5.5	7152	750 sx	2690	Temp survey
WBDU 095	8/9/47	6630	Eunice; Bli-Tu-Dr, N	O	No repor	13.375	318	300 sx	GL	Circ
30-025-06716					No repor	9.625	2848	1000 sx	no report	No report
A-21-21S-37E					No repor	7	6525	500 sx	no report	No report
State DA 005	8/8/96	8225	Paddock	O	17.5	13.375	258	200 sx	GL	Circ
30-025-06617					11	8.625	2820	1500 sx	565	Temp survey
I-16-21S-37E					7.875	5.5	8225	500 sx	3448	Temp survey
WBDU 082	4/8/07	6875	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1285	650 sx	GL	Circ
30-025-38231					7.875	5.5	6875	1250 sx	320	CBL
J-16-21S-37E										

EXHIBIT G

Sorted by distance from WBDU 179

WBDU 076	5/14/47	6654	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	214	200 sx	<0	Did Not Circ
30-025-06616					11	8.625	2815	1200 sx	1325	Temp survey
K-16-21S-37E					7.875	5.5	6654	500 sx	2850	Temp survey
Weatherly 009	7/18/08	6696	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1222	550	GL	Circ 42 sx to pit
30-025-38802					7.875	5.5	6694	1200	2000	No report
B-21-21S-37E										
WBDU 081	2/28/07	6793	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1255	600 sx	GL	Circ
30-025-38230					7.875	5.5	6793	1200 sx	GL	CBL & Circ
K-16-21S-37E										
Weatherly 003	9/3/47	6624	Blinebry Oil & Gas (Oil)	O	17	12.75	225	175 sx	no report	N/A
30-025-06721					11	8.625	2850	1200 sx	no report	N/A
C-21-21S-37E					7.75	5.5	6623	500 sx	no report	N/A

EXHIBIT G

Sorted by distance from WBDU 179

NEDU 721	9/16/05	6850	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1275	575 sx	GL	Circ 119 sx
30-025-37243					7.875	5.5	6850	1300 sx	408	CBL
M-15-21S-37E										
WBDU 094	5/25/06	7290	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1207	500 sx	GL	Circ 29 sx
30-025-37537					7.875	5.5	7290	1050 sx	280	CBL
N-16-21S-37E										
NEDU 720	10/16/04	6850	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1195	600 sx	GL	Circ 130 sx
30-025-36806					7.875	5.5	6850	1150 sx	460	no report
D-22-21S-37E										
Elliott A 003	1/26/52	7859	Blinebry (Oil)	P & A	17.5	13.375	760	300 sx	GL	Circ
30-025-06718					12.25	9.625	2942	1850 sx	Unknown	Unknown
A-21-21S-37E					7.875	5.5	7841	395 sx	5840	Temp survey

EXHIBIT G

Sorted by distance from WBDU 179

Argo 012	8/5/86	8035	Penrose Skelly; Grayburg	O	17.5	13.375	227	250 sx	GL	Circ 60 sx
30-025-06608					11	8.625	2882	1900 sx	GL	Circ 300 sx
M-15-21S-37E					7.875	5.5	2662-8033	900 sx	3480	CBL
WBDU 164	Plan	7000	Eunice; Bli-Tu-Dr, N	O	11	8.625	1300	715 sx	GL	N/A
30-025-42537					7.875	5.5	7000	950 sx	GL	N/A
H-16-21S-37E										
WBDU 083	6/23/07	6850	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1273	575 sx	GL	Circ
30-025-38414					7.875	5.5	6850	1300 sx	186	CBL
L-16-21S-37E										
Weatherly 010	8/18/08	6730	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1235	550 sx	GL	Circ
30-025-38801					7.875	5.5	6730	1200 sx	1848	No report
F-21-21S-37E										

EXHIBIT G

Sorted by distance from WBDU 179

NEDU 702	8/8/47	6646	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	316	250 sx	GL	Circ
30-025-09911					11	8.625	2839	800 sx	GL	Circ
M-15-21S-37E					7.875	5.5	6529	500 sx	3650	Est
Harry Leonard NCT E 001	10/4/05	6670	Penrose Skelly; Grayburg	O	17.25	13.325	294	300 sx	GL	Circ
30-025-06620					12.25	9.625	2950	1300 sx	1345	Temp Survey
G-16-21S-37E					8.75	7	6610	700 sx	1360	Temp Survey
Harry Leonard NCT E 005	6/22/52	8220	Penrose Skelly; Grayburg	O	17.25	12.75	268	325 sx	GL	Circ
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
WBDU 168	11/14/14	6982	Eunice; Bli-Tu-Dr, N	I	11	8.625	1293	575 sx	GL	Circ 168 sx
30-025-41548					7.875	5.5	6945	1921 sx	GL	Circ 270 sx
G-16-21S-37E										

EXHIBIT G

spud: 1-26-52

WELL DATA SHEET

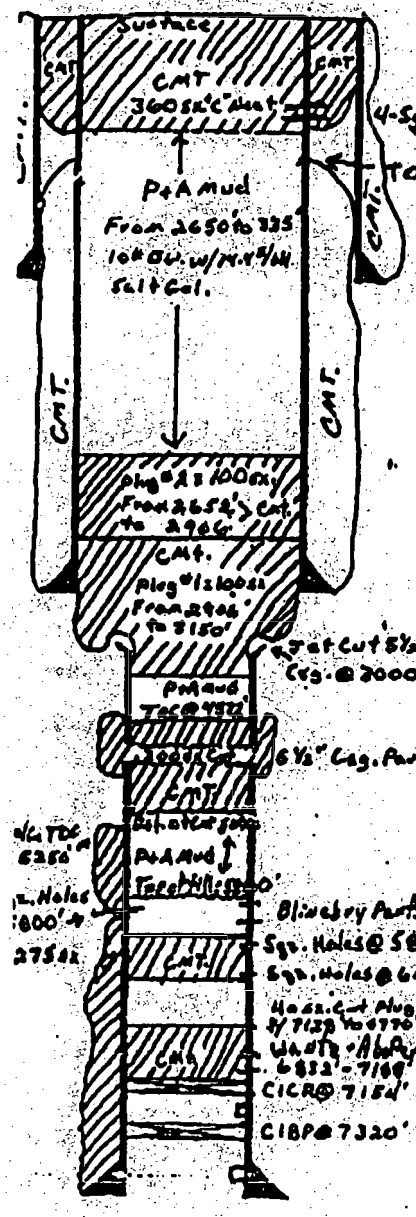
LEASE Elliott A. WELL NO. 3 FIELD Blinebry DATE 2-5-95

LOCATION 980 FEET FROM North LINE AND 330 FEET FROM East LINE

SECTION 21 TOWNSHIP 21-S RANGE 37-E COUNTY Lea STATE N.M.

API Well # 30-025-06718 0051 Lease Designation + Serial # NMLC032691A

*WH conn: NONE



GE: 3434'
KDB to GE 13'
DF to GE 12'

13 3/8" OD 36 lbs. Surf. Pipe set @ 260' w/ 300 sx cmt. Circ? Yes

9 5/8" OD 32-36 lbs. STHC Thd Gr H-40 & J-55 Csg set at 2942' w/ 1850 sx Cmt. Circ? No TOC at None' by TS

5½" OD Gr N-80 & J55, 15.5 & 17# Csg set @ 7841' w/ 395 sx Cmt. Circ? No TOC @ 5840 by TS

PBD Surface'

Date Completed

Initial Formation

FROM: TO:

Initial Production ___ BOPD ___ BWPD ___ MCFPD ___ GOR

Completion Data:

Plug + Abandon. Start 2-1-95, Fnd 2-5-95
2-2-95 - Spot 300 sx. Class "C" Cmt. w/ 2% CaCl2. from 5096' up to 4572' - Plug Tagged.
2-3-95 - Cut 5½" Csg @ 3000' + Pull 5½" Csg.
2-4-95 - Spot 40 bbls P+A Mud from 4571' to 3000'. Spot 100 sx. Class "C" Cmt. w/ 2% CaCl2 from 3150' to 2902' - Spot 100 sx. "C" Cmt. w/ 2% CaCl2 from 2902' to 2652' (All Plugs Tagged)
Circ P+A Mud from 2650' to Surface w/ 208 bbls 10#/gal B.W. w/ 14.4 #/bbl Salt Gel.
Test 9 5/8" Csg. to 500 psi - Ok. - Perf. 9 5/8" Csg. w/ 4 Sqz. Holes @ 735'
2-5-95 - Cmt. dn 9 5/8" Csg. Thru Sqz. Holes @ 735', Up 9 5/8" X 13 3/8" Annulus w/ 360 sx. Class "C" Neat Cmt. - Leave 9 5/8 Csg + 13 3/8" X 9 5/8" Annuls Full of Cmt. from 735' to Surface

Subsequent Workover or Reconditioning:

Present Prod. ___ BOPD ___ BWPD ___ MCFPD ___ GOR ___ Date

Remarks or Additional Data:

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00729 POD1		CP	LE	4	1	3	15	21S	37E	673259	3594711*	831	8015		
CP 01575 POD1		CP	LE	1	2	1	22	21S	37E	673543	3594200	1086	40	35	5
CP 01575 POD2		CP	LE	2	2	1	22	21S	37E	673610	3594192	1154	35	35	0
CP 00731 POD1		CP	LE		2	1	22	21S	37E	673577	3594015*	1171	8130		
CP 00554			LE		2	2	16	21S	37E	672744	3595610*	1217	80	70	10
CP 00732 POD1		CP	LE		4	1	22	21S	37E	673584	3593613*	1369	6633		
CP 00733 POD1		CP	LE		3	3	22	21S	37E	673196	3592801*	1772	7864	175	7689
CP 01574 POD1		CP	LE	2	4	4	15	21S	37E	674563	3594599	2091	68	57	11
CP 01110 POD1		CP	LE		1	3	14	21S	37E	674586	3594648	2118	70		
CP 01110 POD2		CP	LE		1	3	14	21S	37E	674586	3594648	2118	70		
CP 01110 POD3		CP	LE		1	3	14	21S	37E	674586	3594648	2118	70		
CP 01110 POD4		CP	LE		1	3	14	21S	37E	674586	3594648	2118	20		
CP 01110 POD5		CP	LE		1	3	14	21S	37E	674586	3594648	2118	20		
CP 01185 POD3		CP	LE		1	3	14	21S	37E	674592	3594620	2122	70		
CP 01185 POD1		CP	LE		1	3	14	21S	37E	674598	3594689	2136	70		
CP 01185 POD2		CP	LE		1	3	14	21S	37E	674623	3594674	2159	70		
CP 01185 POD4		CP	LE		1	3	14	21S	37E	674633	3594610	2162	70		
CP 00711			LE	4	2	2	28	21S	37E	672900	3592291*	2172	100	65	35
CP 01574 POD2		CP	LE	1	3	3	14	21S	37E	674654	3594594	2181	68	57	11
CP 00251 POD1		CP	LE	2	3	4	22	21S	37E	674099	3592915*	2212	103		
CP 00235 POD3		CP	LE	1	1	1	23	21S	37E	674681	3594137*	2220	90	61	29
CP 00235 POD7		CP	LE	3	1	1	23	21S	37E	674681	3593937*	2254	85	65	20
CP 00235 POD4		CP	LE	1	3	1	23	21S	37E	674688	3593735*	2313	100	80	20
CP 00252 POD1		CP	LE	4	2	4	22	21S	37E	674493	3593125*	2395	106	78	28
CP 00294 POD1		CP	LE	1	3	1	27	21S	37E	673110	3592096*	2410			
CP 00235 POD6		CP	LE	2	1	1	23	21S	37E	674881	3594137*	2418	85	65	20
CP 00881			LE		4	4	22	21S	37E	674402	3592824*	2500	95	53	42
CP 00017 POD1		CP	LE	2	1	2	27	21S	37E	674106	3592513*	2508	101		

1 mile = 1610 meters

CP 00736			LE		3	1	27	21S	37E	673211	3591997*		2533	120	76	44
CP 00242 POD1		CP	LE	3	4	2	28	21S	37E	672708	3591889*		2543			
CP 00895			LE		1	1	20	21S	37E	669957	3593956*		2564	163		
CP 00235 POD2		CP	LE	1	2	1	23	21S	37E	675083	3594144*		2618	96	65	31
CP 00293 POD1			LE	2	4	1	27	21S	37E	673711	3592104*		2625	80		
CP 00235 POD5		CP	LE	1	4	1	23	21S	37E	675090	3593742*		2698	90	70	20
CP 01026 POD1			LE	1	1	3	17	21S	37E	669809	3594958		2723	167	95	72
CP 01095 POD1		CP	LE	2	2	4	28	21S	37E	672859	3591714		2733	108	48	60
CP 01096 POD2		CP	LE	2	2	4	28	21S	37E	672976	3591731		2735	98	48	50
CP 01095 POD2		CP	LE	2	2	4	28	21S	37E	672876	3591714		2736	109	48	61
CP 01096 POD1		CP	LE	2	2	4	28	21S	37E	672861	3591708		2740	108	48	60
CP 00235 POD9		CP	LE	3	4	1	23	21S	37E	675090	3593542*		2755	94	58	36
CP 00235 POD1		CP	LE	2	2	1	23	21S	37E	675283	3594144*		2817	81		
CP 00249 POD1		CP	LE	2	3	2	27	21S	37E	674113	3592111*		2830	102		
CP 00250 POD1		CP	LE	2	3	2	27	21S	37E	674113	3592111*		2830	101		
CP 00447 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*		2832	95		
CP 00448 POD1		CP	LE	2	4	4	18	21S	37E	669647	3594451*		2832	100		
CC 01999 POD1			CU	3	3	2	29	03N	36E	670385	3592502		2841	415	372	43
CP 00240 POD1		CP	LE	4	2	1	23	21S	37E	675283	3593944*		2844			
CP 00241 POD1		CP	LE	4	2	1	23	21S	37E	675283	3593944*		2844	79		
CP 00735			LE		2	4	28	21S	37E	672816	3591588*		2853	105		
CP 00676			LE		4	4	18	21S	37E	669548	3594352*		2931	140	106	34
CP 00239 POD1		CP	LE	1	1	2	23	21S	37E	675485	3594152*		3018	89	61	28
CP 00985 POD1			LE	4	4	2	19	21S	37E	669595	3593453		3041	160		
CP 00235 POD8		CP	LE	3	1	2	23	21S	37E	675485	3593952*		3042	94	58	36
CP 00236 POD1		CP	LE	3	1	2	23	21S	37E	675485	3593952*		3042	83		
CP 00966 POD1			LE	1	3	4	28	21S	37E	672306	3591367		3059	154		
CP 00965 POD1	R		LE	1	3	4	28	21S	37E	672333	3591346		3078	123	60	63
CP 00235 POD10		CP	LE	1	3	2	23	21S	37E	675492	3593749*		3087	92	60	32
CP 00235 POD11		CP	LE	1	3	2	23	21S	37E	675492	3593749*		3087	97	60	37
CP 00237 POD1		CP	LE	1	3	2	23	21S	37E	675492	3593749*		3087	84		
CP 00965 POD2			LE	1	3	4	28	21S	37E	672273	3591336		3092	135		
CP 00253 POD1		CP	LE	3	4	2	27	21S	37E	674315	3591918*		3104	101		
CP 00513 POD1		CP	LE	3	1	3	28	21S	37E	671508	3591467*		3110	5000	4374	626
CP 00322			LE			3	28	21S	37E	671818	3591366*		3126	138	73	65
CP 00238 POD1		CP	LE	3	3	2	23	21S	37E	675492	3593549*		3136	81		

EXHIBIT H

CP 00749		LE	2	4	3	28	21S	37E	672118	3591271*		3171	123	75	48

Average Depth to Water: **210 feet**

Minimum Depth: **35 feet**

Maximum Depth: **4374 feet**

Record Count: 65

UTMNAD83 Radius Search (in meters):

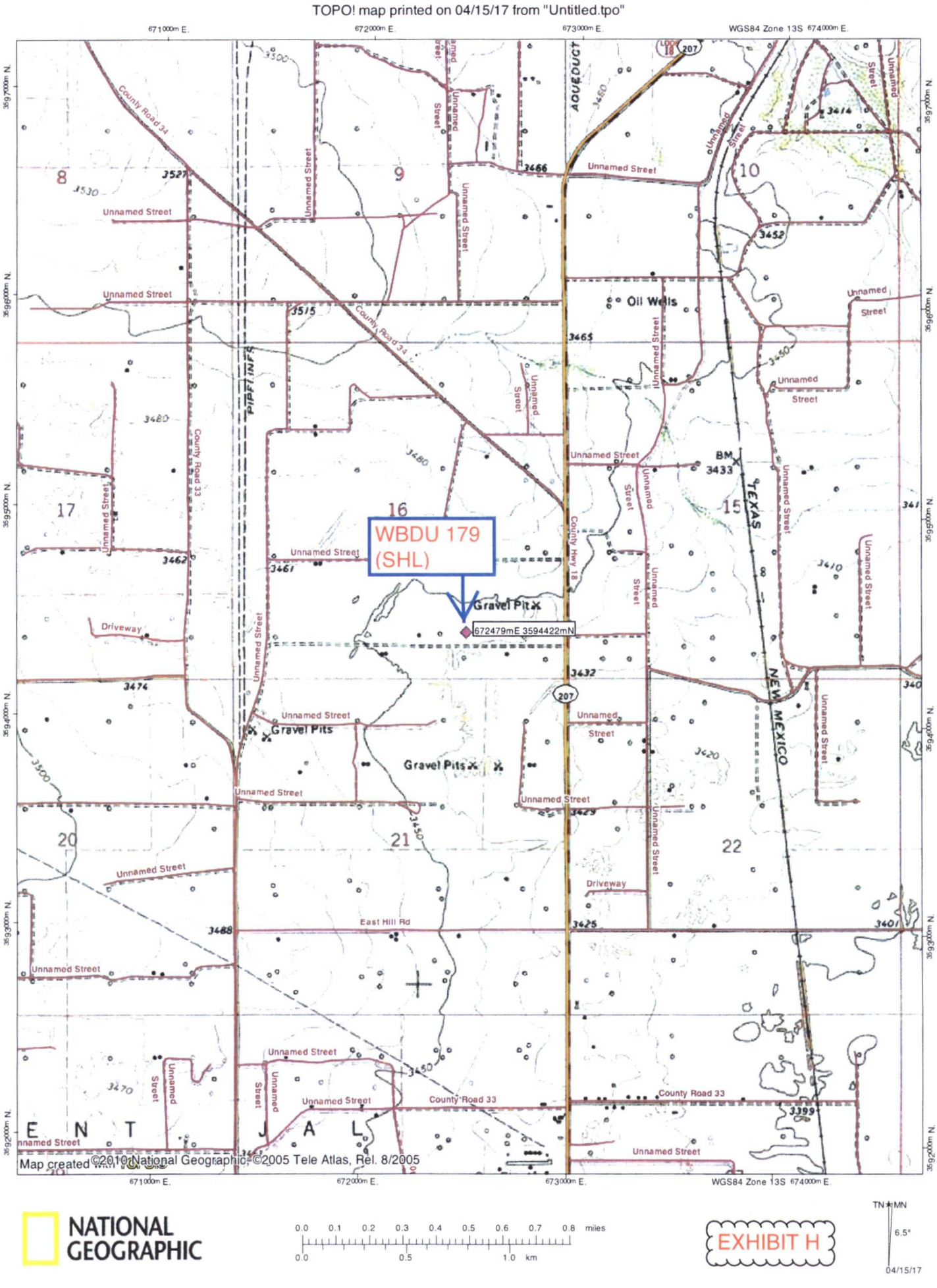
Easting (X): 672479 **Northing (Y):** 3594422 **Radius:** 3220

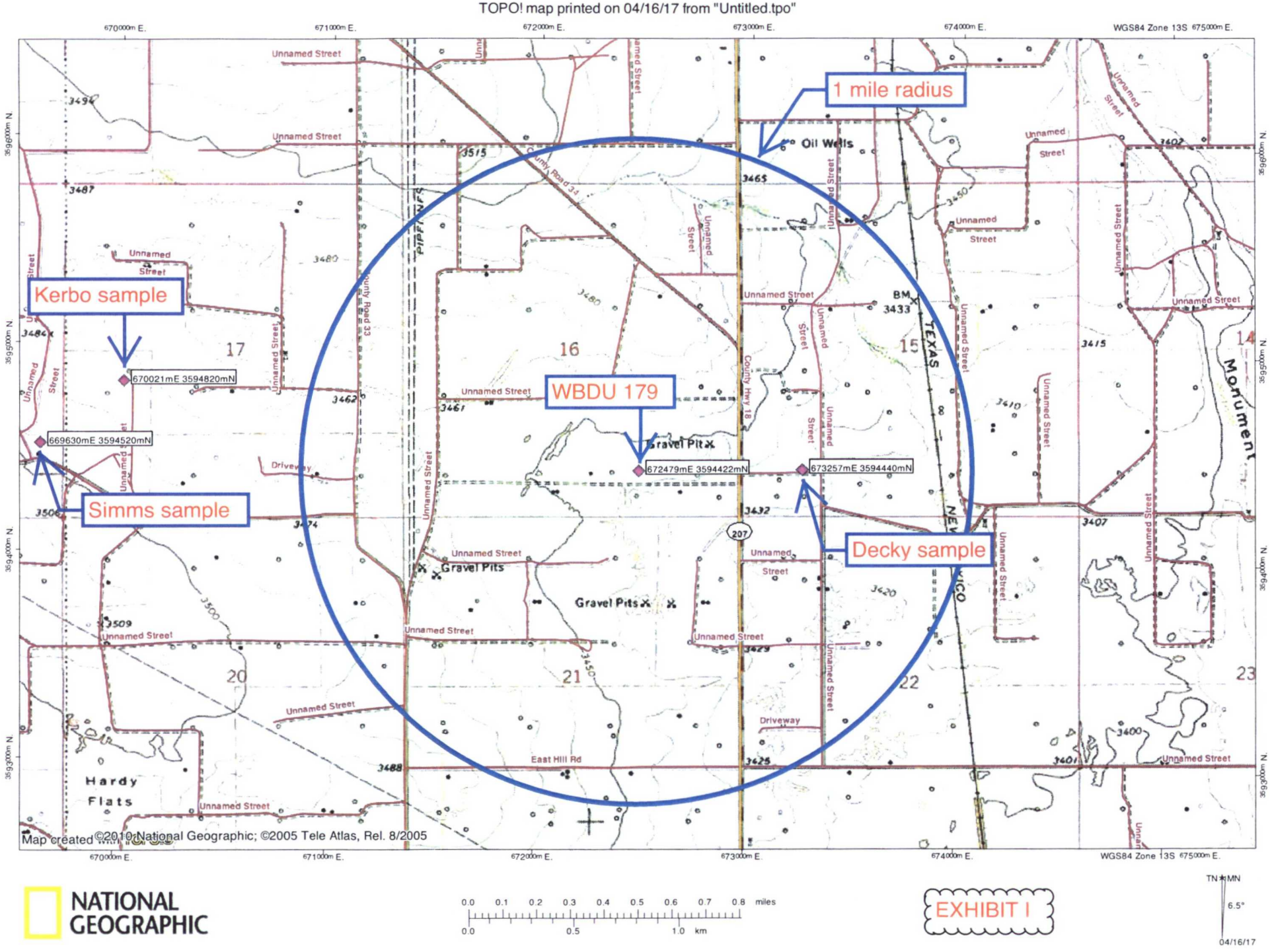
***UTM location was derived from PLSS - see Help**

3/27/17 8:43 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

EXHIBIT H


TOPO! map printed on 04/15/17 from "Untitled.tpo"
671000m E.
672000m E.
673000m E.
WGS84 Zone 13S 674000m E.
WBDU 179
(SHL)
672479mE 3594422mN
Gravel Pit
Gravel Pits
Oil Wells
Unnamed Street
County Road 34
County Road 33
County Hwy 18
East Hill Rd
Driveway
AQUEDUCT
PIPELINES
TEXAS
NEW MEXICO
BM 3433
Map created ©2010 National Geographic. ©2005 Tele Atlas, Rel. 8/2005
NATIONAL GEOGRAPHIC
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 miles
0.0 0.5 1.0 km
EXHIBIT H
TN MN
6.5°
04/15/17


TOPO! map printed on 04/16/17 from "Untitled.tpo"
1 mile radius
Kerbo sample
WBDU 179
Simms sample
Decky sample
670021mE 3594820mN
669630mE 3594520mN
672479mE 3594422mN
673257mE 3594440mN
Oil Wells
Gravel Pit
Gravel Pits
Hardy Flats
East Hill Rd
Unnamed Street
Driveway
Map created ©2010 National Geographic; ©2005 Tele Atlas, Rel. 8/2005
NATIONAL GEOGRAPHIC
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 miles
0.0 0.5 1.0 km
EXHIBIT I
TN MN
6.5°
04/16/17

Analytical Report
Lab Order **1704042**
Date Reported: **4/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West
Project: Apache WBDU 179
Lab ID: 1704042-001 **Matrix:** AQUEOUS

Client Sample ID: Sec 15 Decky Well
Collection Date: 3/31/2017 9:15:00 AM
Received Date: 4/3/2017 2:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	600	25	*	mg/L	50	4/7/2017 2:49:28 AM
EPA METHOD 1664B						Analyst: **tnc**
N-Hexane Extractable Material	ND	9.90		mg/L	1	4/3/2017 5:00:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	1600	20.0	*	mg/L	1	4/9/2017 7:07:00 PM

EXHIBIT I

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West
Project: Apache WBDU 179
Lab ID: 1704042-002 **Matrix:** AQUEOUS

Client Sample ID: Kerbo Tank
Collection Date: 3/31/2017 10:12:00 AM
Received Date: 4/3/2017 2:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	48	10		mg/L	20	4/4/2017 3:08:21 AM
EPA METHOD 1664B						Analyst: **tnc**
N-Hexane Extractable Material	ND	11.1		mg/L	1	4/3/2017 5:00:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	466	20.0		mg/L	1	4/9/2017 7:07:00 PM

EXHIBIT I

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West
Client Sample ID: Simms Pond
Project: Apache WBDU 179
Collection Date: 3/31/2017 10:26:00 AM
Lab ID: 1704042-003
Matrix: AQUEOUS
Received Date: 4/3/2017 2:30:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	180	10		mg/L	20	4/4/2017 3:57:59 AM
EPA METHOD 1664B						Analyst: **tnc**
N-Hexane Extractable Material	ND	12.7		mg/L	1	4/3/2017 5:00:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	760	40.0	*D	mg/L	1	4/9/2017 7:07:00 PM

EXHIBIT I

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1704042**
17-Apr-17

Client: Permits West
Project: Apache WBDU 179

Sample ID: **MB-31041**	SampType: **MBLK**	TestCode: **EPA Method 1664B**
Client ID: **PBW**	Batch ID: **31041**	RunNo: **41880**
Prep Date: **4/3/2017**	Analysis Date: **4/3/2017**	SeqNo: **1314872** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10.0								
Silica Gel Treated N-Hexane Extrac	ND	10.0								

Sample ID: **LCS-31041**	SampType: **LCS**	TestCode: **EPA Method 1664B**
Client ID: **LCSW**	Batch ID: **31041**	RunNo: **41880**
Prep Date: **4/3/2017**	Analysis Date: **4/3/2017**	SeqNo: **1314873** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	38.0	10.0	40.00	0	95.0	78	114			
Silica Gel Treated N-Hexane Extrac	17.8	10.0	20.00	0	89.0	64	132			

Qualifiers:

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

EXHIBIT I

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1704042**

17-Apr-17

Client: Permits West

Project: Apache WBDU 179

Sample ID **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R41837**	RunNo: **41837**							
Prep Date:	Analysis Date: **4/3/2017**	SeqNo: **1314544**	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: **R41837**	RunNo: **41837**							
Prep Date:	Analysis Date: **4/3/2017**	SeqNo: **1314545**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.8	90	110			

Sample ID **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **A41955**	RunNo: **41955**							
Prep Date:	Analysis Date: **4/6/2017**	SeqNo: **1317699**	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: **A41955**	RunNo: **41955**							
Prep Date:	Analysis Date: **4/6/2017**	SeqNo: **1317700**	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	98.9	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	W	Sample container temperature is out of limit as specified

EXHIBIT I

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704042

17-Apr-17

Client: Permits West

Project: Apache WBDU 179

Sample ID: MB-31133	SampType: MBLK	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: PBW	Batch ID: 31133	RunNo: 41980
Prep Date: 4/7/2017	Analysis Date: 4/9/2017	SeqNo: 1318255 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-31133	SampType: LCS	TestCode: SM2540C MOD: Total Dissolved Solids
Client ID: LCSW	Batch ID: 31133	RunNo: 41980
Prep Date: 4/7/2017	Analysis Date: 4/9/2017	SeqNo: 1318256 Units: mg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

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

EXHIBIT I

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

Brian,

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

Regards,

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

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

Martin:

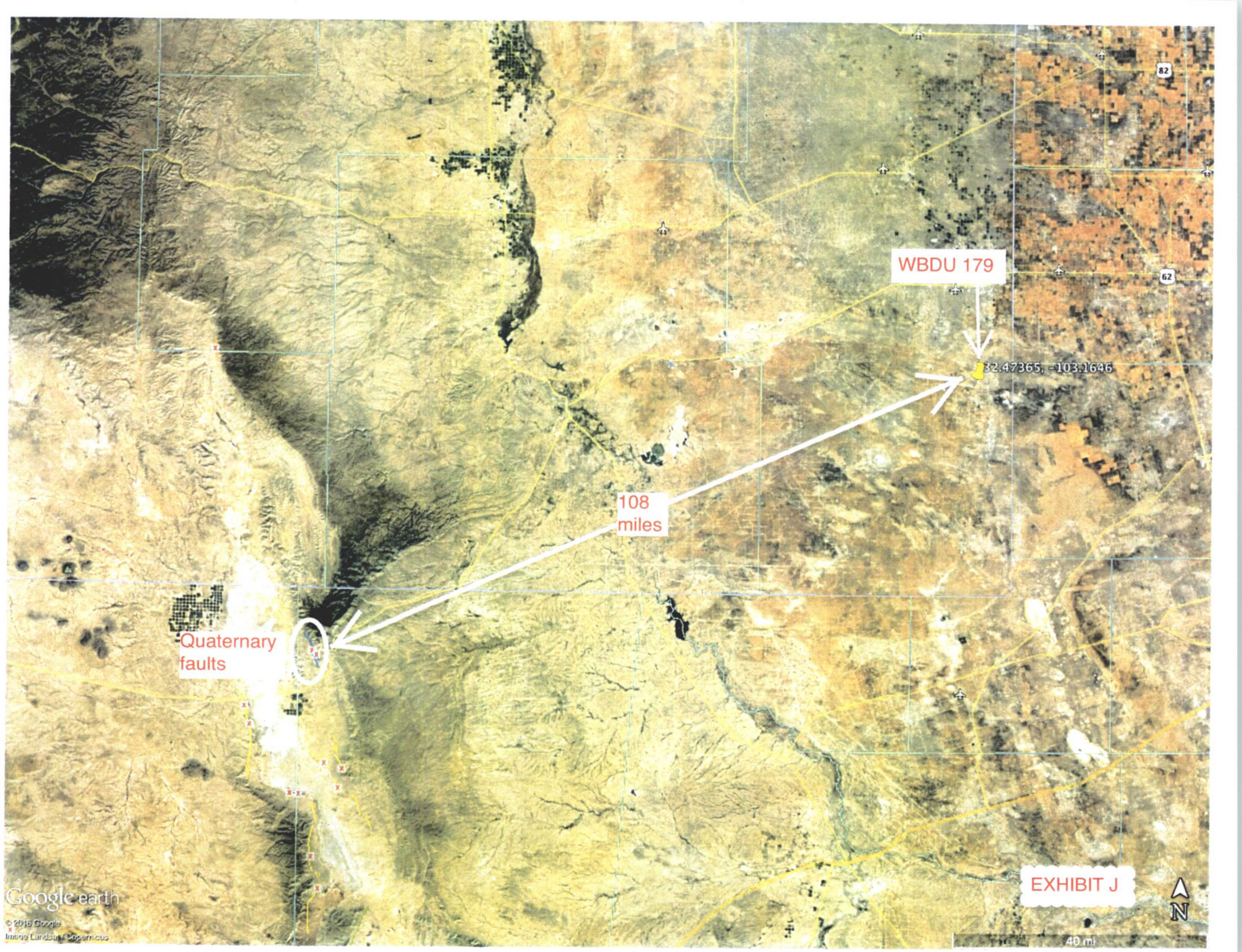
In reference to the meeting this morning where we discussed the possibility of shallow faulting in the WBDU area and its potential impact on the permitting of the injection well(s) into the Drinkard, I submit to you the attached slide set from me and Justin. You will see that we have done several extractions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

Please contact me or Justin if you have further questions.

Sincerely,

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

EXHIBIT J


WBDU 179
32.47365, -103.1646
108
miles
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faults
EXHIBIT J
82
62
Google earth
© 2016 Google
Image Landsat / Copernicus
40 mi
N

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

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

Beginning with the issue dated
April 05, 2017
and ending with the issue dated
April 05, 2017.

LEGALS

LEGAL NOTICE
April 5, 2017

Apache Corporation is applying to drill the West Blinebry Drinkard Unit 179 as a water injection well. The well is at 770 FSL & 1740 FEL, Sec. 16, T. 21 S., R. 37 E., Lea County, NM. This is 2 miles north of Eunice, NM. It will inject water into the Blinebry through Drinkard (maximum injection pressure = 1,120 psi) from 5,588' to 6,643'. Injection will be at a maximum rate of 3,000 bwpd. Interested parties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days. Additional information can be obtained by contacting: Brian Wood, Permits West, Inc., 37 Verano Loop, Santa Fe, NM 87508. Phone number is (505) 466-8120. #31696

Daniel Russell
Publisher

Sworn and subscribed to before me this
5th day of April 2017.

Jessie Black
Business Manager

My commission expires
January 29, 2019
(Seal)

OFFICIAL SEAL
JESSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-19

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

00191176

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

EXHIBIT K

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

April 21, 2017

NM State Land Office
PO Box 1148
Santa Fe NM 87504

Apache Corporation is applying (see attached application) to use its West Blinebry Drinkard Unit 179 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 179 (state lease) TD = 6,876'
Proposed Injection Zone: Blinebry, Tubb, & Drinkard from 5,590' to 6,643'
Where: SHL 770' FSL & 1740' FEL Sec. 16, T. 21 S., R. 37 E., Lea County, NM
BHL 870' FSL & 2050' 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

EXHIBIT L

PERMITS WEST INC.

PROVIDING PERMITS for LAND USERS

April 21, 2017

Chevron USA
6301 Deauville Blvd.
Midland TX 79706

Apache Corporation is applying (see attached application) to use its West Blinebry Drinkard Unit 179 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.

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Please call me if you have any questions.

Sincerely,

Brian Wood

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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Certified Mail Fee $
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) $
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Postage $
Total Postage and Fees $
Sent To: Chevron
Street and Apt. No., or PO Box No.
City, State, ZIP+4®

Postmark Here: APR 22 2017

EXHIBIT L

PERMITS WEST INC.

PROVIDING PERMITS for LAND USERS

April 21, 2017

Occidental Permian LTD
PO Box 4294
Houston TX 77210

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Please call me if you have any questions.

Sincerely,

Brian Wood

7016 1370 0000 0859 7055

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PERMITS WEST INC.

PROVIDING PERMITS for LAND USERS

April 21, 2017

Elliott Hall Co UT LP
PO Box 1231
Ogden UT 84402

Apache Corporation is applying (see attached application) to use its West Blinebry Drinkard Unit 179 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.

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Please call me if you have any questions.

Sincerely,

Brian Wood

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Total Postage and Fees
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EXHIBIT L

PERMITS WEST INC.

PROVIDING PERMITS for LAND USERS

April 21, 2017

Elliott Industries LP
PO Box 1328
Santa Fe NM 87504

Apache Corporation is applying (see attached application) to use its West Blinebry Drinkard Unit 179 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.

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Please call me if you have any questions.

Sincerely,

Brian Wood

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Postage
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Total Postage and Fees
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City, State, ZIP+4®

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PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS

April 21, 2017

Stephens & Johnson
PO Box 2249
Wichita Falls TX 76307

Apache Corporation is applying (see attached application) to use its West Blinebry Drinkard Unit 179 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.

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Please call me if you have any questions.

Sincerely,

Brian Wood

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☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage
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Total Postage and Fees
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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

EXHIBIT 1

PECOS NM 87552-9998
Postmark Here

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PERMITS WEST, INC.
PROVIDING PERMITS for LAND USERS

April 21, 2017

BLM
620 E. Greene
Carlsbad NM 88220

Apache Corporation is applying (see attached application) to use its West Blinebry Drinkard Unit 179 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.

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Please call me if you have any questions.

Sincerely,

Brian Wood

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☐ Certified Mail Restricted Delivery $
☐ Adult Signature Required $
☐ Adult Signature Restricted Delivery $
Postage
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Total Postage and Fees
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City, State, ZIP+4®

PECOS NM APR 2 87552-9998
Postmark Here

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1. Article Addressed to:

BLM
620 E. Greene
Carlsbad NM 88220

Apache – WBDU 179 9590 9402 1840 6104 1555 28

2. Article Number (Transfer from service label)
7016 1370 0000 0859 7093

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

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A. Signature
X [signature] ☐ Agent ☑ Addressee

B. Received by (Printed Name) Ian Parmc C. Date of Delivery 4/27/17

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

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

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1. Article Addressed to:

NM State Land Office
PO Box 1148
Santa Fe NM 87504

Apache – WBDU 179 9590 9402 1840 6104 1555 97

2. Article Number (Transfer from service label)
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A. Signature
X [signature] ☐ Agent ☐ Addressee

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

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

SANTA FE NM APR 27 2017 MAIL POST OFFICE

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
☐ Insured Mail Restricted Delivery ($500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

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:

Chevron USA
5301 Beauville Blvd.
Midland TX 79706

Apache – WBDU 179 9590 9402 1840 6104 1555 73

2. Article Number (Transfer from service label)
7016 1370 0000 0859 7048

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 4/27/17

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

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Occidental Permian LTD
PO Box 4294
Houston TX 77210

Apache – WBDU 179 9590 9402 1840 6104 1555 80

2. Article Number (Transfer from service label)
7016

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

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

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

APR 27 2017 HOUSTON TX

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
firmation™
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ivery

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.

Article Addressed to:

Elliott Hall Co UT LP
PO Box 1231
Ogden UT 84402

Apache – WBDU 179 9590 9402 1840 6104 1555 59

Article Number (Transfer from service label)
7016 1370 0000 0859 7062

S Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

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

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

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

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:

Stephens & Johnson
PO Box 2249
Wichita Falls TX 76307

Apache – WBDU 179 9590 9402 1840 6104 1555 66

2. Article Number (Transfer from service label)
7016 1370 0000 0859 7086

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Diena Walker ☐ Agent ☐ Addressee

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

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

WICHITA FALLS TX 76307 APR 28 2017

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

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

1. Article Addressed to:

Elliott Industries LP
PO Box 1328
Santa Fe NM 87504

Apache – WBDU 179 9590 9402 1840 6104 1555 42

2. Article Number (Transfer from service label)
7016 1370 0000 0859 7079

S Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Kathy Elliott ☑ Agent ☐ Addressee

B. Received by (Printed Name) Kathy Elliott C. Date of Delivery 04/27/17

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

SANTA FE NM APR 27 2017

3. Service Type
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☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Addin

C-108 Review Checklist: Received 4/03/2017 Add. Request: _____ Reply Date: _____ Suspended: _____ [Ver 15]

ORDER TYPE: WFX / PMX / SWD Number: _____ Order Date: _____ Legacy Permits/Orders: R-12581

Well No. 179 Well Name(s): GJU 304

API : 30-0 25-43528 Spud Date: 3/27/07 New or Old: N (UIC Class II Primacy 03/07/1982)

Footages (SHL) 770 FSL, 1770 FEL (BHL) 870 FSL, 2050 FEL Lot ___ or Unit O Sec 16 Tsp 21S Rge 37E County Lea

General Location: 2½ miles N Eunice Pool: Eunice; Bli-T-Dre Pool No.: 22900

BLM 100K Map: JAL Operator: Apache Corporation OGRID: 873 Contact: Brian Wood, Agent

COMPLIANCE RULE 5.9: Total Wells: 248 Inactive: 3 Fincl Assur: OK Compl. Order? NA **IS 5.9 OK?** Y **Date:** 5-15-2017

WELL FILE REVIEWED ○ Current Status: Completed injection well

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

Planned Rehab Work to Well: ~~NA~~ Unique WC Tubing

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __ or Existing __ Surface	11 & 5/8	1281		575	Surface / Visual
Planned __ or Existing __ Interm/Prod	7 5/8 / 5½	6876		1350	Surface / Visual
Planned __ or Existing __ Interm/Prod					
Planned __ or Existing __ Prod/Liner					
Planned __ or Existing __ Liner					
Planned __ or Existing __ OH / PERF	5540 / 6643		Inj Length 1059		

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		Paddock	5187
Confining Unit: Litho. Struc. Por.		Blinebry	5590
Proposed Inj Interval TOP:		Tubb	~~5540~~
Proposed Inj Interval BOTTOM:			5648
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 6876 PBTD ___

NEW TD ___ NEW PBTD ___

NEW Open Hole ○ or NEW Perfs ○

Tubing Size 2 3/8 in. Inter Coated? Y

Proposed Packer Depth 5540 ft

Min. Packer Depth 3490 (100-ft limit)

Proposed Max. Surface Press. 1118 psi

Admin. Inj. Press. 1118 (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 ft HYDRO AFFIRM STATEMENT By Qualified Person A

NMOSE Basin: Capitan **CAPITAN REEF:** thru adj NA **No. Wells within 1-Mile Radius?** 6 FW Analysis Y

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

Disposal Int: Inject Rate (Avg/Max BWPD): 25K / 3K Protectable Waters? ___ 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? Y Well List? Y Total No. Wells Penetrating Interval: 36 Horizontals? N/A

Penetrating Wells: No. Active Wells 35 Num Repairs? ___ on which well(s)? ___ Diagrams? ___

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

NOTICE: Newspaper Date April 5th Mineral Owner BLM Surface Owner NMSLO N. Date April 27, 2017

RULE 26.7(A): Identified Tracts? Y Affected Persons: Chevron, Elliott, OXY N. Date April 28

Order Conditions: Issues: ___

Add Order Cond: ___