Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
11/06/2017	MAM	WFX	pMAM1731030011

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: Northeast Drinkard Unit 702 **API:** 30-025-09911
Pool: Eunice; BLI-TU-DR, North **Pool Code:** 22900

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW WFX-975

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

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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

B. Wood
Signature

11-5-17
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? XXX 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-8541

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.

NORTHEAST DRINKARD UNIT 702

VII. Attach data on the proposed operation, including:

30-025-09911

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).

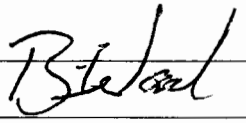
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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: OCT. 23, 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

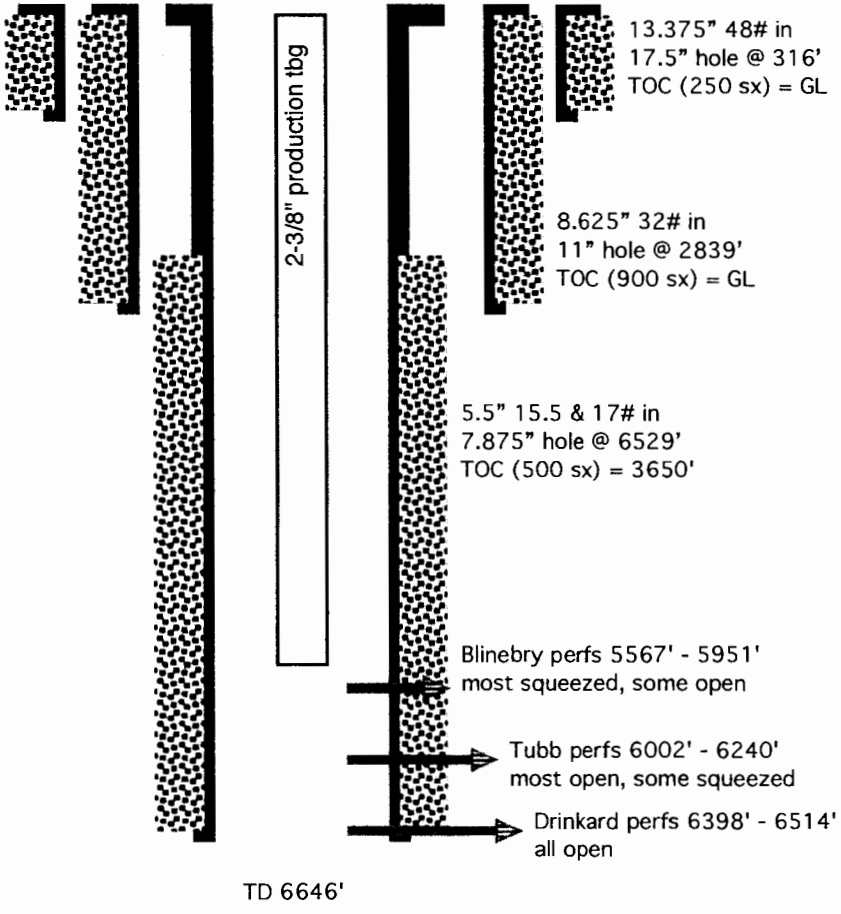
WELL NAME & NUMBER: NORTHEAST DRINKARD UNIT 702

WELL LOCATION:	660' FSL & 660' FWL	M	15	21 S	37 E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

"AS IS"

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 250 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: CIRC.

Intermediate Casing

Hole Size: 11" Casing Size: 8.625"

Cemented with: 900 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: ESTIMATED

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 500 sx. *or* _____ ft³

Top of Cement: 3650' Method Determined: ESTIMATED

Total Depth: 6646'

Injection Interval

5702' feet to 6636'

(Perforated or Open Hole; indicate which)

Side 1

INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

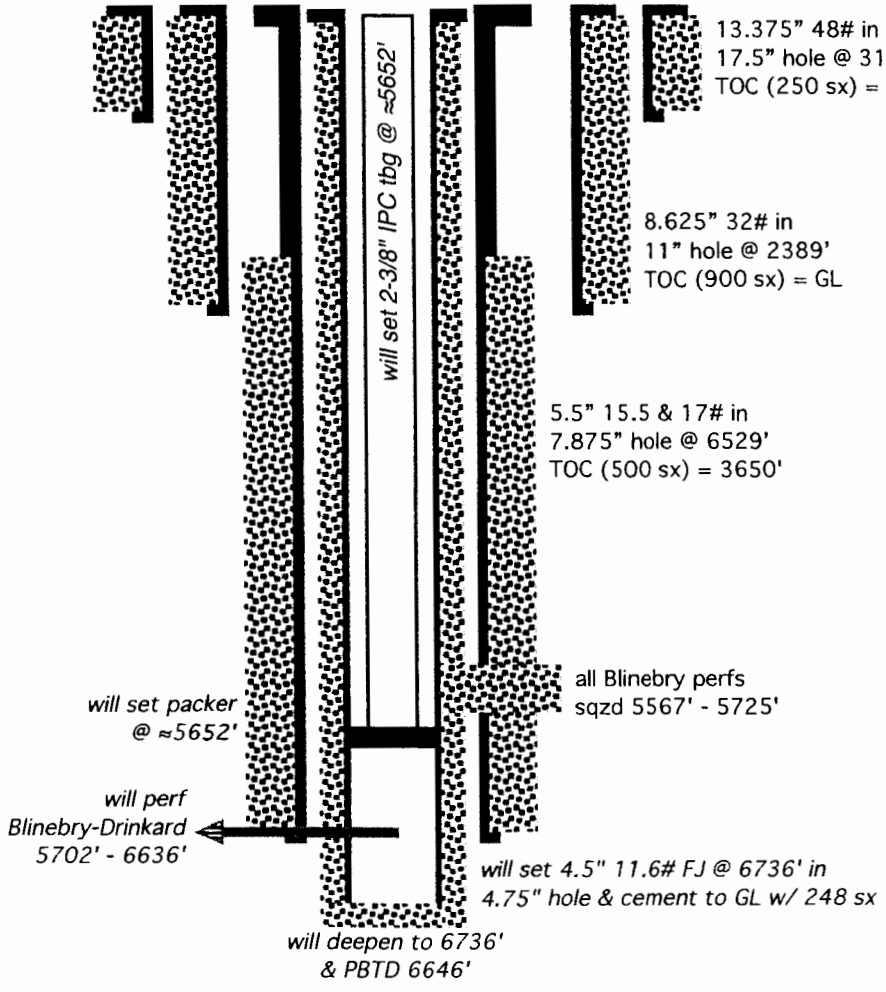
WELL NAME & NUMBER: NORTHEAST DRINKARD UNIT 702

WELL LOCATION:	660' FSL & 660' FWL	M	15	21 S	37 E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

PROPOSED

(not to scale)



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.5" Casing Size: 13.375"

Cemented with: 250 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: CIRC.

Intermediate Casing

Hole Size: 11" Casing Size: 8.625"

Cemented with: 900 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: ESTIMATED

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 500 sx. *or* _____ ft³

Top of Cement: 3650' Method Determined: ESTIMATED

Total Depth: 6646'

Injection Interval

5702' feet to 6636'

(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: ≈5652'

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

Additional Data

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

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

2. Name of the Injection Formation: 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 (3730'), SAN ANDRES (3970')

   UNDER: ABO (6646'), SIMPSON (7300'), McKEE (7600'), ELLENBURGER (8000')

I. Purpose is to deepen (from 6646' to 6736') and convert an oil well to a water injection well. The well will inject (5702' - 6636') 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 Northeast Drinkard Unit (Unit Number 300160, Case Number 9231, Order Number R-8540) that was established in 1987 by Shell. The Unit was subsequently operated by Altura, and now, by Apache. It is an active water flood.

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: Fee "Argo"
Lease Size: 160 acres (see Exhibit A for C-102 and map)
Closest Lease Line: 660'
Lease Area: SW4 of Section 15, T. 21 S., R. 37 E.
Unit Size: 4,938 acres
Closest Unit Line: 660'
Unit Area:

T. 21 S., R. 37 E.
Section 2: all
Section 3: all
Section 4: Lots 1, 8, 9, & 16
Section 10: all
Section 11: SW4
Section 14: NW4
Section 15, 22, & 23: all

A. (2) Surface casing (13.375", 48#, H-40) was set in 1947 at 316' in a 17.5" hole and cemented to GL with 250 sacks.

Intermediate casing (8.625", 32#, H-40) was set at 2839' in an 11" hole and cemented to GL with 900 sacks.

Production casing (5.5", 15.5# & 17#, J-55) was set at 6529' in a 7.875" hole and cemented with 500 sacks to 3650' (estimated).

A 4.75" hole will be drilled to 6736' and 4.5" 11.6" flush joint casing run. Casing will be cemented to GL with 248 sacks.

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

A. (3) Tubing specifications are 2.375", J-55, 4.7#, and internally plastic coated. Setting depth will be ≈5652'. (Top perforation will be 5702'.)

A. (4) A lock set injection packer will be set at ≈5652' (≈50' above the top perforation of 5702').

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

B. (2) Injection interval will be 5702' to 6636'. The well is and will be cased.

B. (3) Well was originally drilled as a Drinkard oil well.

B. (4) Will perforate from 5702' to 6636' with 2 shots per foot at 90°.

B. (5) Next higher oil or gas zone within the area of review is the Grayburg. Its estimated bottom is at ≈3965'. Injection will occur in the Blinebry through Drinkard. Blinebry top is at 5509'. Injection interval will be 5702' to 6636'. Next lower oil or gas zone within the area of review is the Abo. Its estimated top is at 6646'.

IV. This is not a horizontal or vertical expansion of an existing injection project. The case file for the unit approval (R-8540) includes a discussion of the Drinkard water flood. The water flood (R-8541) was approved at the same time in 1987.

Sixteen water flood expansions have been approved since then. Closest unit boundary is 660' west. Eight injection wells are within a half-mile radius (see Exhibit B).

V. Exhibit B shows and tabulates all 64 existing wells (46 producers + 8 injectors + 6 P&A + 2 SWD + 2 water supply) within a half-mile radius, regardless of depth. Exhibit C shows all 831 existing wells (597 oil or gas producing wells + 98 injection or disposal wells + 75 P & A wells + 3 waterflood supply wells + 1 brine supply well + 57 fresh water wells) within a two-mile radius.

Exhibit D shows all leases (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 (T21S, R37E)	Lessor	Lease	Lessee(s) of Record	Blinebry, Tubb, or Drinkard operator
S2NW4 Sec. 15	NMSLO	B0-1481-0018	Oxy USA WTP	Apache
SW Sec. 15	fee	Argo	Apache	Apache
W2SE4 Sec. 15	fee	L G Warlick	Apache	Apache
SENE Sec. 16	NMSLO	B0-1732-0001	Chevron USA	Apache
N2SE4 Sec. 16	NMSLO	B0-0085-0016	Apache	Apache
S2SE4 Sec. 16	NMSLO	B0-8105-0004	Apache	Apache
E2NE4 Sec. 21	BLM	NMLC-032591A	Apache, Elliott Hall, & Elliott Industries	Apache
NWNE Sec. 21	Fee	Weatherly	Stephens & Johnson	Stephens & Johnson
NWNE Sec. 22	Fee	O R Eubank	Apache	Apache
NW4 Sec. 22	fee	Argo A	Apache	Apache

VI. Sixty-four existing wells are within a half-mile. Fifty-four of the wells penetrated the Blinebry (top = 5509'). The penetrators include 36 oil or gas

wells, 8 water injectors, 6 P&A wells, 2 SWD wells, and 2 water supply wells for waterfloods. A table abstracting the well construction details and histories of the Blinebry penetrators is in Exhibit F. Diagrams illustrating the P & A penetrators are in Appendix G.

VII. 1. Average injection rate will be ≈1500 bwpd.
Maximum injection rate will be ≈2000 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. Standard maximum injection pressure would be 1140 psi (= 0.2 psi/foot x 5702' (top perforation)). However, in accordance with IPI-185, Apache requests a maximum injection pressure of 1375 psi.

4. Water source will be water pumped from existing ≈4000' deep San Andres water supply wells plus produced water from the Blinebry, Tubb, and Drinkard zones. The source water and produced water are collected in separate skim tanks. The two water streams (source and produced) are commingled in a storage tank before being piped to injection wells. Commingling began in the 1970s. A comparison of analyses from the discharge pump and San Andres follows. Complete analyses are in Exhibit H.

	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 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°. Core data summary shows:

	Blinebry	Tubb	Drinkard
Porosity (%)	9.79	8.28	11
Permeability (md)	2.45	1.19	2.45
Lithology	dolomite, packstone	sandy dolomite	limestone, packstone, grainstone

Adjacent to the Northeast Drinkard Unit are three other Drinkard water floods (Apache's West Blinebry Drinkard and East Blinebry Drinkard Units and Chevron's Central Drinkard Unit). The Central Drinkard Unit has been under water flood since the 1960s.

Notable depths are:

Quaternary = 0'
Rustler = 1220'
Yates = 2630'
Grayburg = 3730'
San Andres = 3970'
Glorieta = 5118'
Blinebry = 5509'
Injection interval = 5702' - 6636'

Tubb = 6072'
Drinkard = 6400'
Current Total Depth = 6646'
Abo = 6646'
Proposed Total Depth = 6736'

State Engineer (Exhibit I) shows four water wells are ≥6633' deep and within a 2-mile radius. All four were oil wells that were plugged back to produce from the San Andres for water floods. San Andres water had a TDS of 13,273 in NEDU 919S (Exhibit H). Excluding those four wells, then the deepest water well within 2-miles is 154'. NEDU 702 is 2-1/2 miles southwest of the Ogallala aquifer. No existing underground drinking water sources are below the Drinkard within a mile radius. Produced water has been disposed into two zones (Grayburg and San Andres) above the Blinebry within T. 21 S., R. 37 E.

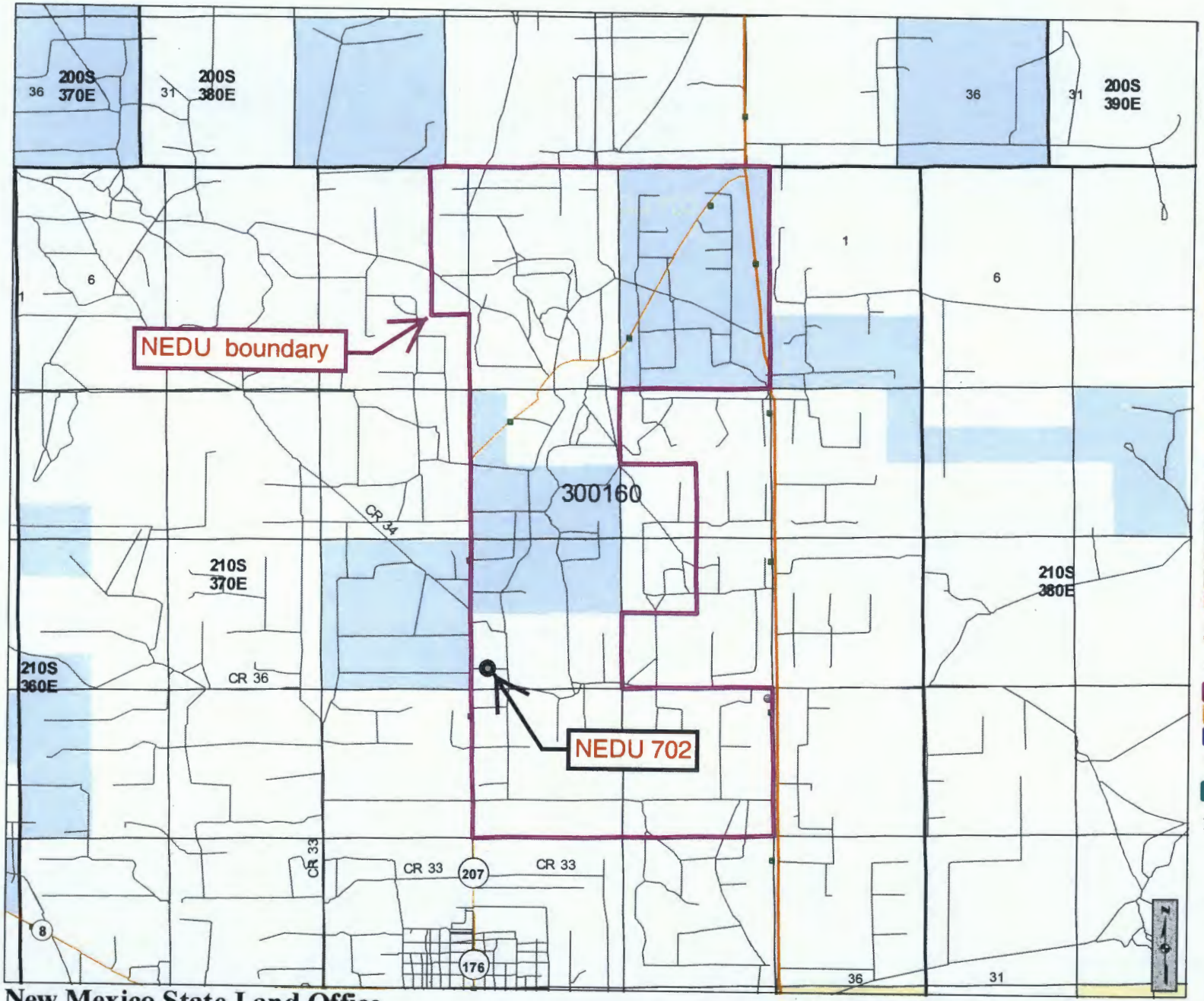
IX. The well will be stimulated with acid to clean out scale or fill.

X. A gamma ray neutron log is on file. GR/CBL/CCL/CNL log suite will be run.

XI. Water sample analyses from two water wells are in Exhibit I. The Section 15 water well, a hundred yards east, is the only water well within a mile that could be found during an October 3, 2017 field inspection. Visits to eight other locations within a mile did not find any water wells.

XII. Apache (Exhibit J) is not aware of any geologic or engineering data that may indicate the Blinebry-Drinkard interval is in hydrologic connection with any underground sources of water. Closest Quaternary fault is 108 miles southwest (Exhibit J). There are 106 Blinebry, 124 Tubb, and 152 Drinkard active or new injectors in the state. Previously approved water flood expansions in the Unit are WFX-583, -674, -722, -740, -752, -759, -774, -784, -881, -882, -896, -906, -907, -910, -911, and -971.

XIII. A legal ad (see Exhibit K) was published on October 4, 2017. Notice (this application) has been sent (Exhibit L) to the lessees of record (Chevron USA Inc., Elliott Hall, Elliott Industries, Oxy USA WTP LP, Stephens & Johnson) with leases in the area of review, government lessors (BLM, NMSLO), all well operators (Chevron, Stephens & Johnson, Vanguard) within the area of review, and the surface owner (Millard Deck Estate 4193).



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 0.125 0.25 0.5 0.75 1 Miles

Universal Transverse Mercator Projection, Zone 13
1983 North American Datum

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

Created On: 11/25/2014 4:51:21 PM

EXHIBIT A

www.nmstatelands.org

TOPO! map printed on 10/01/17 from "Untitled.tpo"

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

TN+MN
6.5°
10/01/17

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OPERATOR		

EW MEXICO OIL CONSERVATI MMISS N

FORM C-128
Revised 5/1/57

WELL LOCATION AND ACREAGE DEDICATION PLAT

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

Operator	Lease	Well No.
Shell Oil Company	Argo	1

Unit Letter	Section	Township	Range	County
M	15	21S	37E	Lea

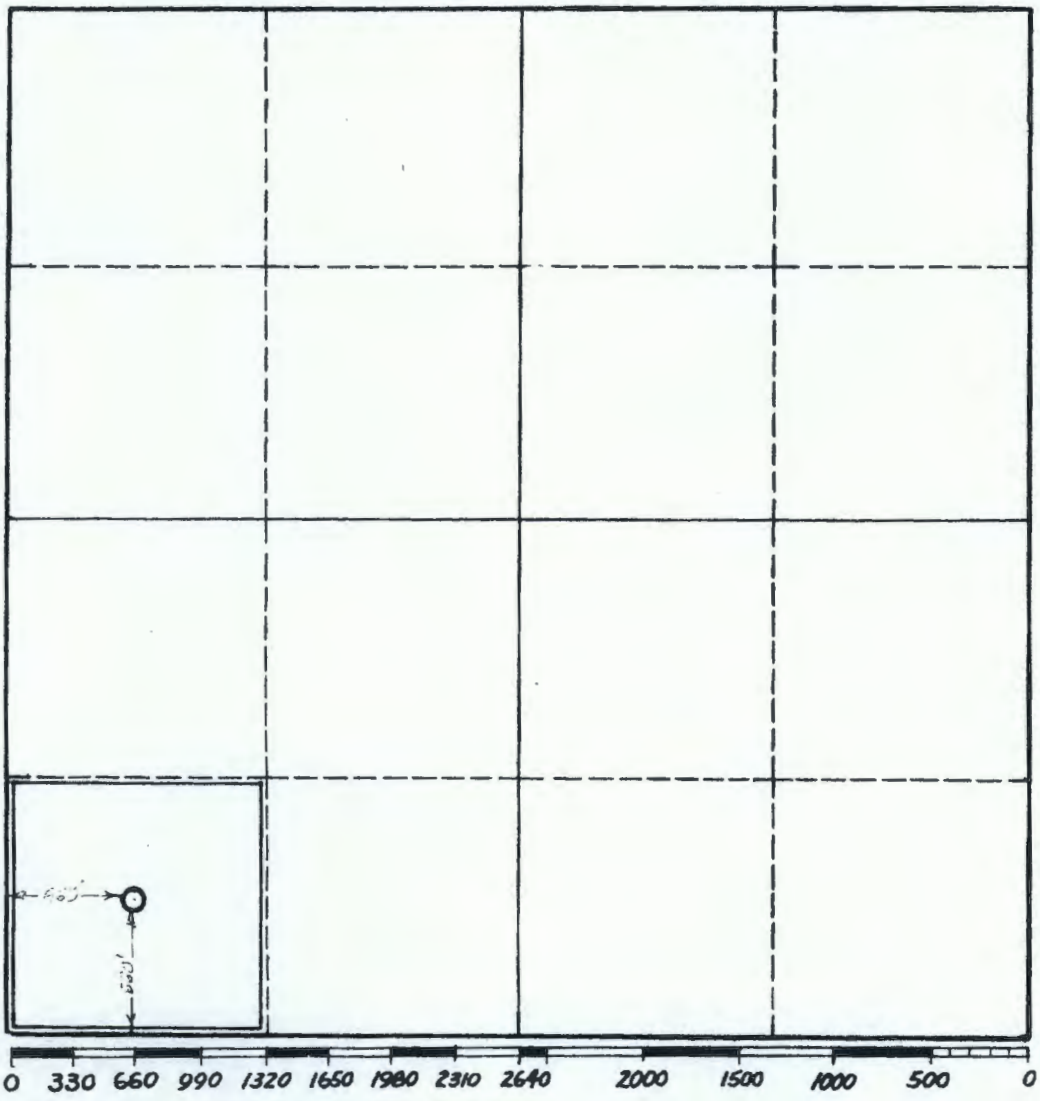
Actual Footage Location of Well:
660 feet from the south line and 660 feet from the west line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3434'	Blinebry	Blinebry (O.L)	40 Acres

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES X NO _____. *("Ouner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)*
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES_____ NO _____. If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B



CERTIFICATION

I hereby certify that the information in *SECTION A* above is true and complete to the best of my knowledge and belief.

Name: R. A. Lowery — ~~Original Signed By~~ R. A. LOWERY

Position: District Exploitation Engineer

Company: Shell Oil Company

Date: June 17, 1963

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

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

EXHIBIT A

Certificate No.

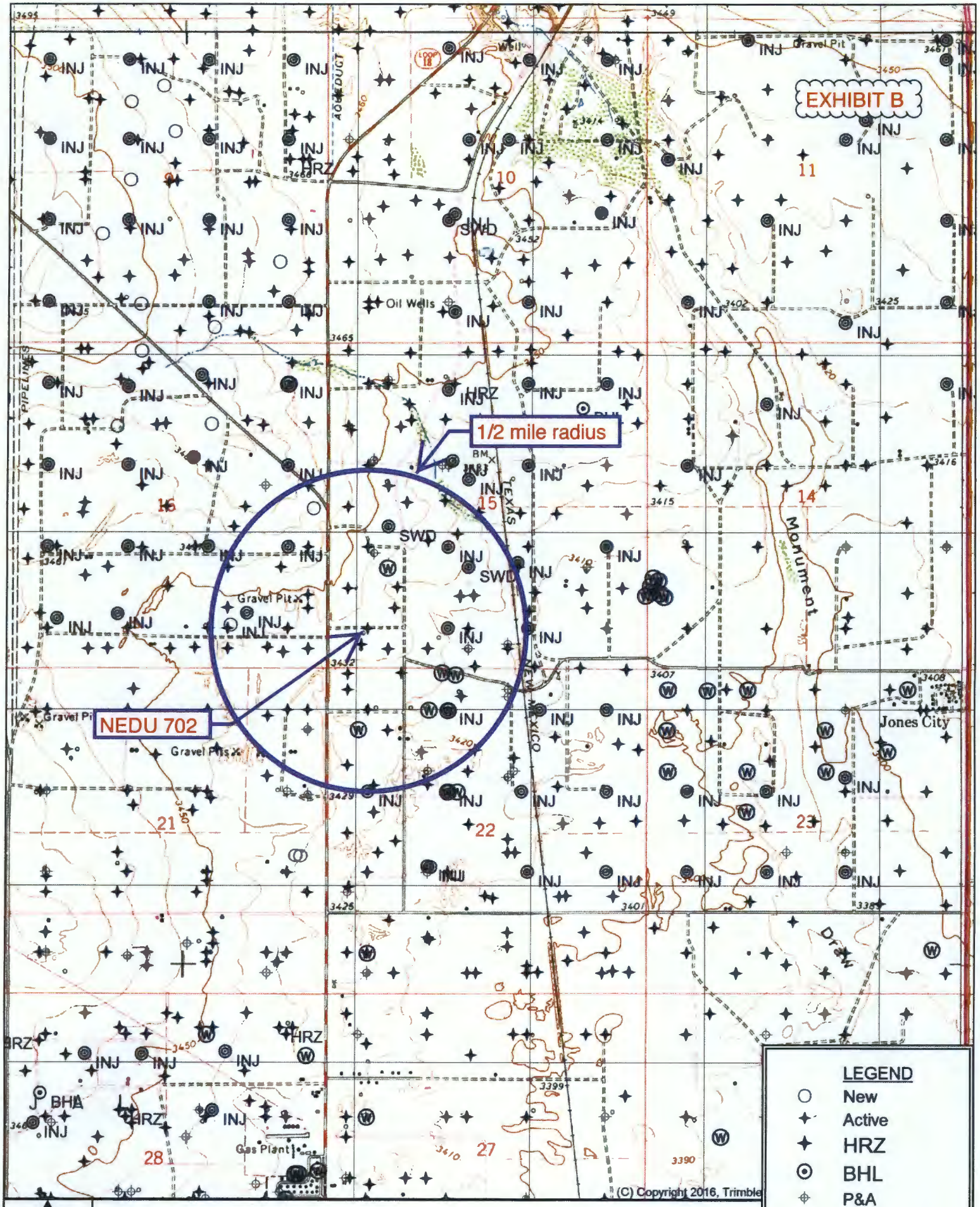


EXHIBIT B
1/2 mile radius
NEDU 702
LEGEND
New
Active
HRZ
BHL
P&A
INJ
SWD
Water
Quad: EUNICE
Scale: 1 inch = 2,000 ft.
N
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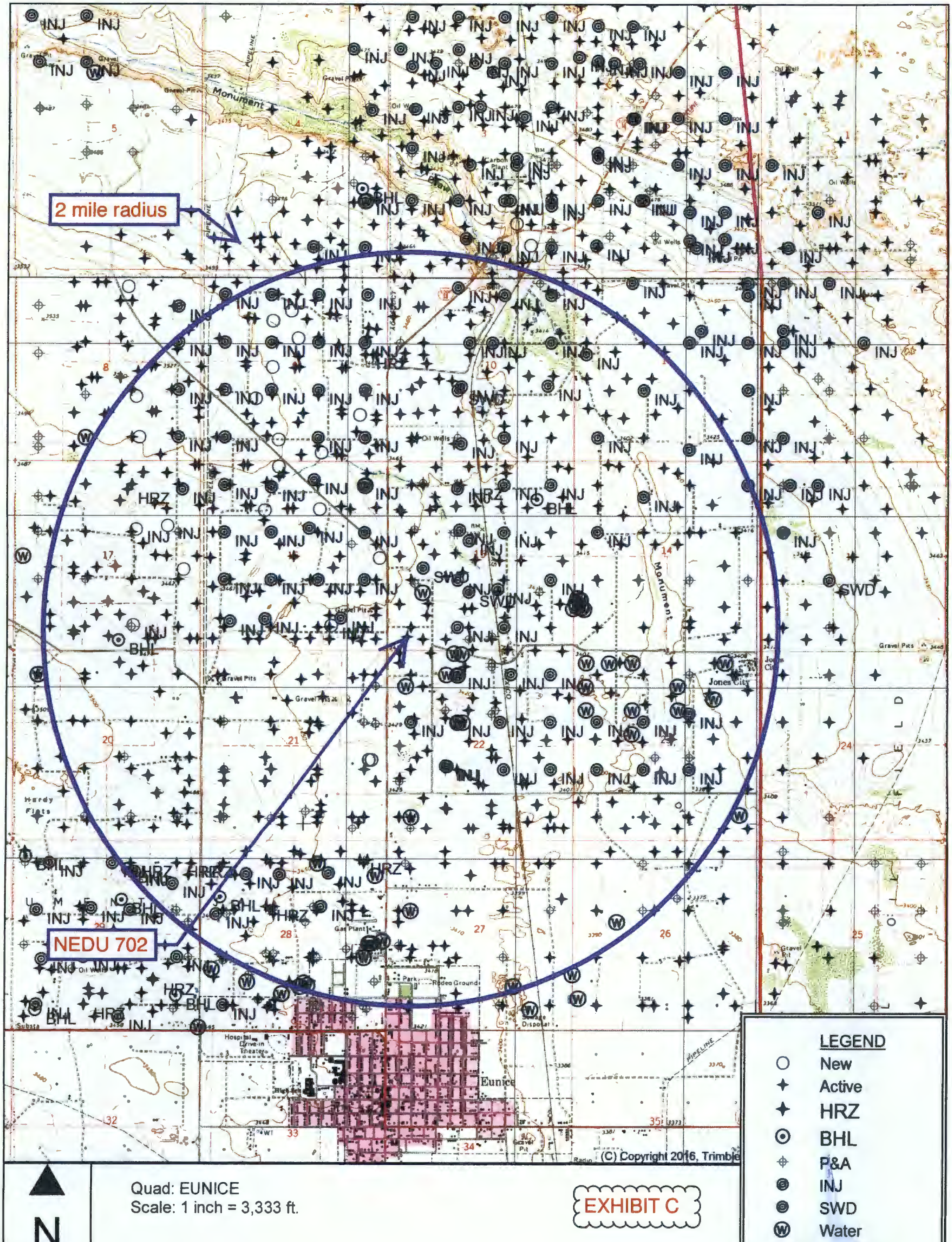
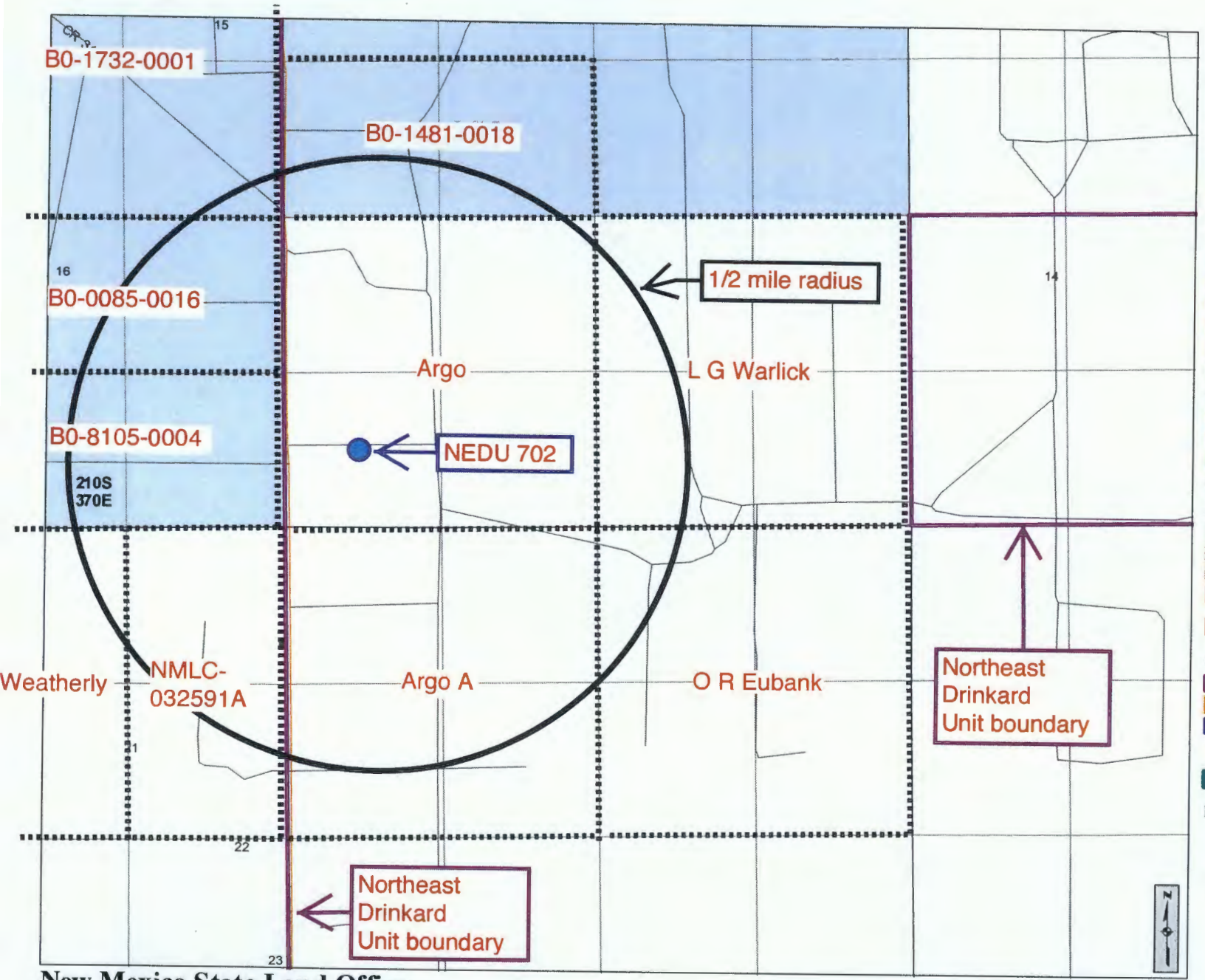
API	OPERATOR	WELL	TYPE	UNIT-SECTION 21S R37E	TVD	ZONE	FEET FROM NEDU 702
3002506608	Apache	Argo 012	O	M-15	8035	Penrose Skelly; Grayburg	283
3002506605	Apache	NEDU 723	O	M-15	8179	Eunice; Bli-Tu-Dr, N	468
3002539557	Apache	Argo 013	O	M-15	4401	Penrose Skelly; Grayburg	566
3002537243	Apache	NEDU 721	O	M-15	6850	Eunice; Bli-Tu-Dr, N	730
3002536806	Apache	NEDU 720	O	D-22	6850	Eunice; Bli-Tu-Dr, N	802
3002534888	Apache	NEDU 713	O	L-15	6790	Eunice; Bli-Tu-Dr, N	827
3002534660	Apache	NEDU 716	O	D-22	6810	Eunice; Bli-Tu-Dr, N	910
3002539686	Apache	Argo A 014	O	D-22	4400	Penrose Skelly; Grayburg	1001
3002539829	Apache	Argo 015	O	N-15	4408	Penrose Skelly; Grayburg	1020
3002506634	Apache	WBDU 090	O	P-16	8261	Eunice; Bli-Tu-Dr, N	1048
3002539449	Apache	State Land 15 017	O	P-16	4415	Penrose Skelly; Grayburg	1084
3002539963	Apache	WBDU 114	O	P-16	6970	Eunice; Bli-Tu-Dr, N	1175
3002506606	Apache	Argo 010	P&A	L-15	8015	Hare; SA (Gas)	1224
3002509916	Apache	NEDU 701	O	L-15	6654	Eunice; Bli-Tu-Dr, N	1320
3002509928	Apache	NEDU 801	O	D-22	6636	Eunice; Bli-Tu-Dr, N	1320
3002509917	Apache	NEDU 704	I	N-15	6630	Eunice; Bli-Tu-Dr, N	1327
3002506633	Apache	WBDU 089	O	P-16	6665	Eunice; Bli-Tu-Dr, N	1327
3002539300	Apache	WBDU 115	O	P-16	7022	Eunice; Bli-Tu-Dr, N	1461
3002541276	Apache	NEDU 726	O	N-15	6860	Eunice; Bli-Tu-Dr, N	1608
3002539151	Apache	Elliott A 010	O	A-21	4410	Penrose Skelly; Grayburg	1621
3002506741	Apache	Argo A 009	W	D-22	8035	Hare; SA (Gas)	1648

EXHIBIT B

3002506617	Apache	State DA 005	O	I-16	8330	Paddock	1654
3002506604	Apache	Argo 008	O	N-15	8002	Paddock	1658
3002506742	Apache	Argo A 010	W	C-22	8130	Hare; SA	1659
3002506740	Apache	Argo A 008	O	D-22	8188	Paddock	1683
3002506602	Apache	NEDU 705	P&A	N-15	8091	Eunice; Bli-Tu-Dr, N	1691
3002537496	Apache	State Land 15 012	G	P-16	4415	Penrose Skelly; Grayburg	1695
3002509915	Apache	Argo 007	S	L-15	8193	Penrose Skelly; Grayburg	1725
3002506607	Apache	Argo 011	O	K-15	7891	Penrose Skelly; Grayburg	1734
3002537916	Apache	State DA 013	O	I-16	4398	Penrose Skelly; Grayburg	1801
3002535272	Apache	NEDU 714	O	N-15	6780	Eunice; Bli-Tu-Dr, N	1827
3002535274	Apache	NEDU 717	O	N-15	6684	Eunice; Bli-Tu-Dr, N	1842
3002506716	Apache	WBDU 095	O	A-21	6630	Eunice; Bli-Tu-Dr, N	1870
3002509918	Apache	NEDU 703W	I	K-15	6645	Eunice; Bli-Tu-Dr, N	1871
3002509929	Apache	NEDU 803	I	C-22	6628	Eunice; Bli-Tu-Dr, N	1871
3002506619	Apache	WBDU 078	I	I-16	6644	Eunice; Bli-Tu-Dr, N	1873
3002506738	Apache	Argo A 006	O	C-22	7907	Paddock	1899
3002506718	Hendrix	Elliott A 003	P&A	A-21	7859	Wantz; Abo	1918
3002506603	Apache	Argo 006	S	K-15	7991	Eunice; Bli-Tu-Dr, N	1931
3002537238	Apache	NEDU 629	O	L-15	6900	Eunice; Bli-Tu-Dr, N	1998
3002537535	Apache	WBDU 092	I	O-16	7284	Eunice; Bli-Tu-Dr, N	2041
3002539828	Apache	Argo 014	O	K-15	4403	Penrose Skelly; Grayburg	2139
3002535271	Apache	NEDU 625	O	E-15	6840	Eunice; Bli-Tu-Dr, N	2139

3002539381	Apache	WBDU 127	O	A-21	6878	Eunice; Bli-Tu-Dr, N	2159
3002535275	Apache	NEDU 822	O	F-22	6780	Eunice; Bli-Tu-Dr, N	2196
3002537244	Apache	NEDU 840	O	E-22	6845	Eunice; Bli-Tu-Dr, N	2240
3002506598	Apache	L G Warlick C 007	P&A	O-15	7690	Penrose Skelly; Grayburg	2301
3002506596	Apache	L G Warlick C 005	G	O-15	7850	Brunson; Ellenburger	2310
3002506591	Apache	NEDU 604	O	E-15	8193	Eunice; Bli-Tu-Dr, N	2334
3002539605	Apache	State Land 15 018	O	O-16	4382	Penrose Skelly; Grayburg	2340
3002520311	Apache	WBDU 091	O	O-16	7300	Eunice; Bli-Tu-Dr, N	2344
3002538378	Apache	State Land 15 016	O	O-16	4135	Penrose Skelly; Grayburg	2371
3002543528	Apache	WBDU 179	I	O-16	6876	Plan: Eunice; Bli-Tu-Dr, N	2435
3002541275	Apache	NEDU 650	O	F-15	6858	Eunice; Bli-Tu-Dr, N	2440
3002506731	Vanguard	Eubank 005	G	B-22	7756	Penrose Skelly; Grayburg	2492
3002506743	Apache	NEDU 804	P&A	F-22	8005	Hare; Simpson	2515
3002506624	Chevron	Harry Leonard NCT	O	H-16	8220	Penrose Skelly; Grayburg	2517
3002537201	Apache	WBDU 079	O	J-16	7310	Eunice; Bli-Tu-Dr, N	2526
3002506739	Apache	Argo A 007	O	E-22	8180	Penrose Skelly; Grayburg	2542
3002506733	Vanguard	Eubank 007	P&A	B-22	7630	Paddock	2546
3002506593	Apache	NEDU 708	I	O-15	6634	Eunice; Bli-Tu-Dr, N	2618
3002534657	Apache	NEDU 623	O	K-15	6840	Eunice; Bli-Tu-Dr, N	2624
3002509914	Apache	NEDU 602	O	E-15	6669	Eunice; Bli-Tu-Dr, N	2640
3002506735	Apache	NEDU 802	I	E-22	6629	Eunice; Bli-Tu-Dr, N	2640
3002534654	*Apache*	*NEDU 823*	*O*	*C-22*	*6800*	*Eunice; Bli-Tu-Dr, N*	*2649*


2 mile radius
NEDU 702
Monument
Jones City
Eunice
(C) Copyright 2016, Trimble
LEGEND
New
Active
HRZ
BHL
P&A
INJ
SWD
Water
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 0.03 0.075 0.15 0.225 0.3 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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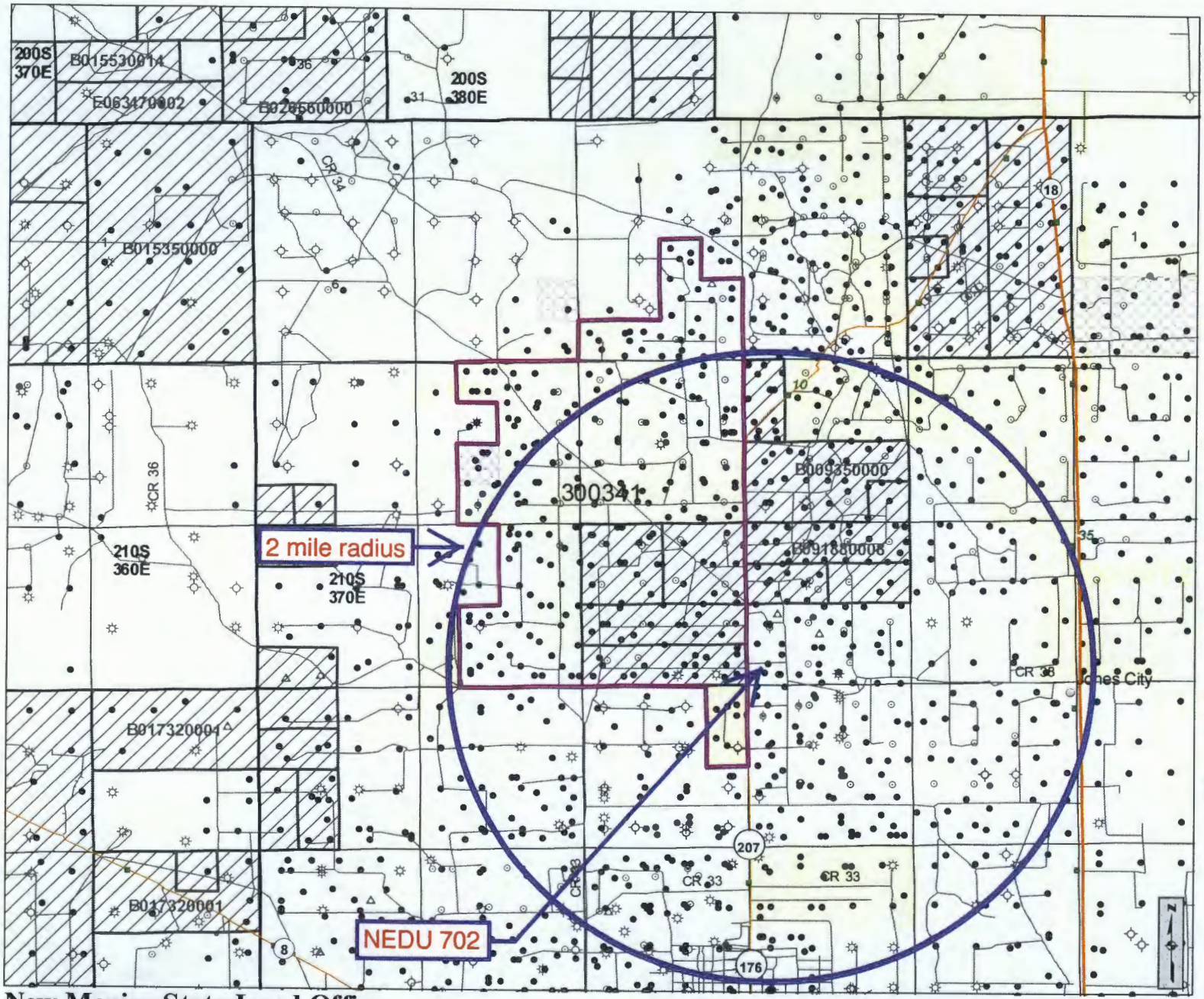
EXHIBIT D

www.nmstatelands.org



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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

Sorted by distance from NEDU 702

WELL	SPUD	TD	POOL	WELL TYPE	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
Argo 012	8/5/86	8035	Penrose Skelly; Grayburg	O	17.5	13.375	227	250 sx	Surface	Circ 60 sx
30-025-06608					11	8.625	2882	1900 sx	Surface	Circ 300 sx
M-15-21S-37E					7.875	5.5	2662-8033	900 sx	3480	CBL
NEDU 723	5/29/51	8179	Eunice; Bli-Tu-Dr, N	O	17.25	13.375	225	250 sx	Surface	Circ
30-025-06605					11	8.625	2917	1700 sx	Surface	Circ
M-15-21S-37E					7.875	5.5	8000	925 sx	2701	CBL
NEDU 721	9/16/05	6850	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1275	575 sx	Surface	Circ 119 sx
30-025-37243					7.875	5.5	6850	1300 sx	408	CBL
M-15-21S-37E										
NEDU 720	10/16/04	6850	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1195	600 sx	Surface	Circ 130 sx
30-025-36806					7.875	5.5	6850	1150 sx	460	No Report
D-22-21S-37E										

EXHIBIT F

Sorted by distance from NEDU 702

NEDU 713	9/25/00	6790	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1245	460 sx	Surface	Circ 121 sx
30-025-34888					7.875	5.5	6790	1525 sx	Surface	Circ 156 sx
L-15-21S-37E										
NEDU 716	8/1/99	6810	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1269	460 sx	Surface	Circ 92 sx
30-025-34660					7.875	5.5	6810	1550 sx	Surface	Circ 20 sx
D-22-21S-37E										
WBDU 090	4/12/52	8261	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	258	250 sx	Surface	Circ
30-025-06634					8.625	8.375	2861	1500 sx	Surface	Circ
P-16-21S-37E					No report	5.5	8259	400 sx	3376	Temp Survey
WBDU 114	12/19/10	6970	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1297	665 sx	Surface	Circ 171 sx
30-025-39963					7.875	5.5	6952	1195 sx	800	CBL
P-16-21S-37E										

EXHIBIT F

Sorted by distance from NEDU 702

Argo 010	7/19/51	8015	Hare; SA (Gas)	P&A	17.25	13.375	241	250 sx	Surface	Circ 50 sx
30-025-06606					11	8.625	2907	1700 sx	Surface	Circ 287 sx
L-15-21S-37E					7.875	5.5	8012	875 sx	2660	TOL
NEDU 701	10/10/47	6654	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	224	210 sx	Surface	Circ 25 sx
30-025-09916					11	8.625	2875	800 sx	Surface	No report
L-15-21S-37E					7.375	5.5	6652	600 sx	3250	Estimate
NEDU 801	8/21/47	6636	Eunice; Bli-Tu-Dr, N	O	17.25	13.375	222	250 sx	Surface	Circ 50 sx
30-025-09928					11	8.625	1233	600 sx	Surface	Circ
D-22-21S-37E					7.875	5.5	6635	800 sx	2734	Calc
NEDU 704	5/27/63	6630	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	210	250 sx	Surface	Circ 15 sx
30-025-09917					12.25	9.625	2883	1500 sx	Surface	Circ 460 sx
N-15-21S-37E					8.75	7	6560	1000 sx	2500	Calc

Sorted by distance from NEDU 702

WBDU 089	11/24/47	6665	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	219	250 sx	No report	No report
30-025-06633					11	8.625	2864	1700 sx	No report	No report
P-16-21S-37E					7.875	5.5	6664	400 sx	No report	No report
WBDU 115	5/8/10	7225	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1273	650 sx	Surface	Circ
30-025-39300					7.875	5.5	7225	1300 sx	Surface	Circ
P-16-21S-37E										
NEDU 726	10/16/13	6860	Eunice; Bli-Tu-Dr, N	O	11	8.625	1300	469 sx	Surface	Circ 112 sx
30-025-41276					7.875	5.5	6879	1320 sx	Surface	Circ 126 sx
N-15-21S-37E										
Argo A 009	9/9/51	8035	WSW; San Andres	W	17.25	13.375	218	250 sx	Surface	Circ
30-025-06741					11	8.625	2900	1775 sx	80	Temp Surv
D-22-21S-37E					7.875	5.5	8025	1125 sx	2712	No report

Sorted by distance from NEDU 702

State DA 005	8/8/96	8225	Paddock	O	17.5	13.375	258	200 sx	Surface	Circ
30-025-06617					11	8.625	2820	1500 sx	565	No report
I-16-21S-37E					7.875	5.5	8225	500 sx	3448	No report
Argo 008	5/11/51	8002	Paddock	O	17.5	13.375	226	300 sx	Surface	Circ
30-025-06604					11	8.625	2915	1800 sx	Surface	Circ
N-15-21S-37E					7.875	5.5	8002	1220 sx	50	CBL
Argo A 010	9/29/51	8130	WSW; San Andres	W	17.25	13.375	216	250 sx	Surface	Circ
30-025-06742					11	8.625	2874	1900 sx	Surface	Circ
C-22-21S-37E					7.875	5.5	8058	800 sx	2890	Temp Survey
Argo A 008	3/9/51	8188	Wantz; Abo	O	17.5	13.375	226	300 sx	Surface	Circ
30-025-06740					11	8.625	2928	1700 sx	Surface	Circ
D-22-21S-37E					7.875	5.5	8011	1400 sx	3838	CBL

Sorted by distance from NEDU 702

NEDU 705	7/27/50	8091	Eunice; Bli-Tu-Dr, N	P&A	17.25	13.375	225	300 sx	Surface	Circ
30-025-06602					11	8.625	2903	2000 sx	Surface	Circ
N-15-21S-37E					7.875	5.5	7773	500 sx	4412	No report
Argo 007	4/13/51	8193	Penrose Skelly; Grayburg	S	17.25	13.375	223	250 sx	Surface	Circ
30-025-09915					11	8.625	2907	1900 sx	Surface	Circ
L-15-21S-37E					7.875	5.5	8016	779 sx	3280	CBL
Argo 011	7/14/51	7891	Penrose Skelly; Grayburg	O	17.5	13.375	228	250 sx	Surface	Circ
30-025-06607					11	8.625	2902	1950 sx	Surface	Circ
K-15-21S-37E					7.875	5.5	2680-7890	800 sx	3025	CBL
NEDU 714	5/15/01	6780	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1214	460 sx	Surface	Circ 40 sx
30-025-35272					7.875	5.5	6780	1175 sx	Surface	Circ 102 sx
N-15-21S-37E										

Sorted by distance from NEDU 702

NEDU 717	4/29/01	6684	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1265	460 sx	Surface	Circ 49 sx
30-025-35274					7.875	5.5	6780	1075 sx	150	CBL
N-15-21S-37E										
WBDU 095	8/9/47	6630	Eunice; Bli-Tu-Dr, N	O	No report	13.375	318	300 sx	Surface	Circ
30-025-06716					No report	9.625	2848	1000 sx	No report	No report
A-21-21S-37E					No report	7	6525	500 sx	No report	No report
NEDU 703	2/29/48	6645	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	208	250 sx	Surface	Circ 15 sx
30-025-09918					11	8.625	2891	1500 sx	Surface	Circ 200 sx
K-15-21S-37E					7.875	5.5	6495	600 sx	2280	CBL
NEDU 803	7/1/48	6628	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	226	250 sx	Surface	Circ
30-025-09929					11	8.625	2918	1500 sx	Surface	Circ 240 sx
C-22-21S-37E					7.375	5.5	6559	750 sx	2800	Free Point

Sorted by distance from NEDU 702

WBDU 078	8/12/47	6644	Eunice; Bli-Tu-Dr, N	I	17.25	13.375	213	200 sx	Surface	Circ
30-025-06619					11	8.625	2807	1550 sx	Surface	Circ
I-16-21S-37E					7.375	5.5	6644	500 sx	Surface	Circ
Argo A 006	5/26/50	7907	Paddock	O	17.5	13.375	227	300 sx	Surface	Circ
30-025-06738					11	8.625	2883	2000 sx	Surface	Circ
C-22-21S-37E					7.875	5.5	7770	850 sx	3290	CBL
Elliott A 003	1/26/52	7859	Wantz; Abo	P&A	17.25	13.375	240	300 sx	Surface	Circ
30-025-06718					12.25	9.625	2938	1650 sx	No Report	No Report
A-21-21S-37E					7.875	5.5	7840	395 sx	5840	Temp Survey
Argo 006	2/27/51	7991	Eunice; Bli-Tu-Dr, N	S	17.5	13.375	225	250 sx	Surface	Circ
30-025-06603					11	8.625	3100	200 sx	Surface	Circ
K-15-21S-37E					7.875	5.5	7790	500 sx	5070	CBL

Sorted by distance from NEDU 702

NEDU 629	6/25/05	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1200	575 sx	Surface	Circ
30-025-37238					7.875	5.5	6900	1300 sx	130	CBL
L-15-21S-37E										
WBDU 092	12/1/05	7284	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1197	575 sx	Surface	Circ 171 sx
30-025-37535					7.875	5.5	7284	1150 sx	650	CBL
O-16-21S-37E										
NEDU 625	6/5/01	6840	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1219	460 sx	Surface	Circ 81 sx
30-025-35271					7.875	5.5	6840	1450 sx	Surface	Circ 117 sx
E-15-21S-37E										
WBDU 127	9/6/09	6878	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1254	650 sx	Surface	Circ
30-025-39381					7.875	5.5	6878	1250 sx	190	CBL
A-21-21S-37E										

Sorted by distance from NEDU 702

NEDU 822	3/9/01	6780	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1233	460 sx	Surface	Circ 96 sx
30-025-35275					7.875	5.5	6780	1200 sx	Surface	Circ 33 sx
F-22-21S-37E										
NEDU 840	9/30/05	6845	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1268	575 sx	Surface	Circ 98 sx
30-025-37244					7.875	5.5	6845	1380 sx	1660	CBL
E-22-21S-37E										
L G Warlick C 007	2/1/51	7690	Penrose Skelly; Grayburg	P&A	17.5	13.375	305	300 sx	Surface	Circ
30-025-06598					11	8.625	2802	1300 sx	Surface	Circ
O-15-21S-37E					7.875	5.5	7688	1000 sx	2940	Temp Survey
L G Warlick C 005	5/31/50	7850	Brunson; Ellenburger	G	17	13.375	287	300 sx	Surface	Circ
30-025-06596					11	8.625	2809	1300 sx	Surface	Circ
O-15-21S-37E					8	5.5	7655	1100 sx	55	Temp Survey

Sorted by distance from NEDU 702

NEDU 604	8/28/51	8193	Eunice; Bli-Tu-Dr, N	O	17.25	13.375	336	350 sx	Surface	Circ
30-025-06591					11.25	8.625	2835	500 sx	No report	No report
E-15-21S-37E					7.875	5.5	8042	400 sx	4650	CBL
WBDU 091	9/19/63	7300	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	252	300 sx	Surface	Circ 25 sx
30-025-20311					11	8.625	2990	660 sx	Surface	Circ 100 sx
O-16-21S-37E					7.875	5.5	7298	895 sx	1120	Temp Survey
WBDU 179	3/27/17	6876	Eunice; Bli-Tu-Dr, N	I	11	8.625	1281	575 sx	Surface	Circ 166 sx
30-025-43528					7.875	5.5	6876	1350 sx	Surface	Circ 238 sx
O-16-21S-37E										
NEDU 650	11/7/13	6858	Eunice; Bli-Tu-Dr, N	O	11	8.625	1309	465 sx	Surface	Circ 96 sx
30-025-41275					7.875	5.5	6858	1300 sx	Surface	Circ 100 sx
F-15-21S-37E										

Sorted by distance from NEDU 702

Eubank 005	2/22/50	7756	Penrose Skelly; Grayburg	G	17.25	13.375	294	300 sx	Surface	Circ
30-025-06731					12.25	9.625	2800	1300 sx	1335	Temp Survey
B-22-21S-37E					8.75	7	7644	700 sx	2950	Temp Survey
NEDU 804	11/16/51	8005	Eunice; Bli-Tu-Dr, N	P&A	17.25	13.375	225	250 sx	Surface	Circ 70 sx
30-025-06743					11	8.625	2903	1900 sx	Surface	Circ 40 sx
F-22-21S-37E					7.875	5.5	7843	870 sx	2717	Circ 5 sx
Harry Leonard NCT E 005	6/22/52	8220	Penrose Skelly; Grayburg	O	17.25	12.75	268	325 sx	Surface	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 079	6/24/05	7310	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1289	600 sx	Surface	Circ 92 sx
30-025-37201					7.875	5.5	7310	1600 sx	270	CBL
J-16-21S-37E										

Sorted by distance from NEDU 702

Argo A 007	10/7/50	8180	Penrose Skelly; Grayburg	O	17.5	13.375	226	300 sx	Surface	Circ
30-025-06739					11	8.625	2913	1700 sx	Surface	Circ
E-22-21S-37E					7.875	5.5	8080	750 sx	3630	CBL
Eubank 007	7/24/51	7630	Paddock	P&A	17.25	13.375	306	300 sx	Surface	Circ
30-025-06733					12.25	9.625	2799	1400 sx	445	Temp Survey
B-22-21S-37E					8.75	7	7629	750 sx	3400	Temp Survey
NEDU 708	7/30/48	6634	Eunice; Bli-Tu-Dr, N	I	17	13.375	288	250 sx	Surface	Circ
30-025-06593					11	8.625	2787	1200 sx	Surface	Circ
O-15-21S-37E					8	5.5	6580	750 sx	3750	Calc
NEDU 623	8/29/99	6840	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1283	460 sx	Surface	Circ 48 sx
30-025-34657					7.875	5.5	6840	1650 sx	Surface	Circ 102 sx
K-15-21S-37E										

Sorted by distance from NEDU 702

NEDU 602	4/11/48	6669	Eunice; Bli-Tu-Dr, N	O	17.25	13.375	297	300 sx	No report	No report
30-025-09914					11.25	8.625	2799	800 sx	No report	No report
E-15-21S-37E					7.875	5.5	6625	350 sx	4250	Temp Survey
NEDU 802	10/25/47	6629	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	255	200 sx	Surface	Circ 115 sx
30-025-06735					11	8.625	2913	1400 sx	Surface	Circ 115 sx
E-22-21S-37E					7.875	5.5	6627	500 sx	4400	Estimated
NEDU 823	8/8/99	6800	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1218	460 sx	Surface	Circ 106 sx
30-025-34654					7.875	5.5	6800	1250 sx	Surface	Circ 145 sx
C-22-21S-37E										
L G Warlick C 006	10/29/50	7847	Hare; Simpson	O	17	13.375	303	300 sx	Surface	Circ
30-025-06597					11	8.625	2797	1200 sx	275	No Report
J-15-21S-37E					8	5.5	7700	575 sx	3230	Temp Survey

Sorted by distance from NEDU 702

WBDU 088	5/13/47	6660	Eunice; Bli-Tu-Dr, N	O	17	13.375	215	250 sx	No report	No report
30-025-06632					11	8.625	2866	1600 sx	No report	No report
O-16-21S-37E					7.75	5.5	6659	500 sx	No report	No report
NEDU 707	5/5/52	7670	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	325	250 sx	Surface	Circ
30-025-06601					11	8.625	2852	1200 sx	Surface	Circ
J-15-21S-37E					7.875	5.5	7665	1155 sx	Surface	Circ

Apache

WELL BORE INFO.

LEASE NAME	L. G. Warlick "C"
WELL #	7
API #	30-025-06598
COUNTY	Lea

O-15-21s-37e
spud 2-1-51
P&A 4-10-12

13 3/8" 48# @ 305'
w/300 sx CIRC to surf

perf @ 355'
sqz 100 sx
GL - 355'

perf @ 1235'
sqz 35 sx
1140' - 1235'

perf @ 2852'
sqz 130 sx
2344' - 2852'

8 5/8" 32# @ 2802'
w/1300 sx CIRC to surf

TOC @ 2940'

set CIBP @ 3680'
25 sx
3431' - 3680'

Grayburg perfs @ 3730'-3827'

CIBP @ 4218' w/ no cmt

55 sx
3827' - 4218'

CIBP @ 6009' w/ 4 sx cmt
Tubb perfs @ 6033'- 6225'

CIBP @ 6365' w/ 2 sx cmt
Drinkard perfs @ 6412'-6490'

CIBP @ 6745' w/ 1.5 sx cmt

McKee perfs @ 7430'- 7640'

5 1/2" 17# @ 7688'
w/1000 sx TOC @ 2940'

PBTD @ 4218'
TD @ 7690'

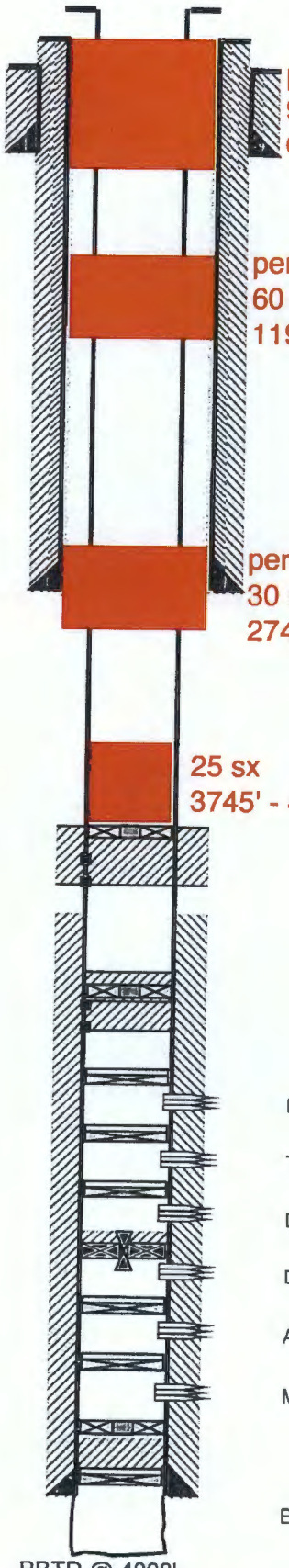
EXHIBIT G

Apache

WELL BORE INFO.

LEASE NAME	Northeast Drinkard Unit
WELL #	705
API #	30-025-06602
COUNTY	Lea

N-15-21s-37e
spud 7-27-50
P&A 10-7-11



13 3/8" 32.4# @ 225'
w/300 sx circ to surf

perf @ 275'
90 sx
GL -275'

perf @ 1350'
60 sx
1195' - 1350'

8 5/8" 32# @ 2912'
w/200 sx circ to surf

perf @ 2962'
30 sx
2745' - 3012'

25 sx
3745' - 4008'

CICR @ 4008'
Csg lk @ 4100' sqzd w/400 sx

TOC @ 4412'

CICR @ 5020' w/ 10' cmt on top
Csg lk @ 5238' sqzd w/ 132 sx

CIBP @ 5530' w/ 20' cmt

CIBP @ 6070' w/ 20' cmt

CIBP @ 6385' w/20' cmt

Baker model FA pkr & plug @ 6450' w/1 sx cmt

CIBP @ 6800' w/ 1 sx cmt

CIBP @ 7400 w/1 sx cmt

CICR @ 7625'
sqzd w/ 75 sx cmt
CIBP @ 7775'

5 1/2" 15.5/17# @ 7785'
w/500 sx cal TOC @ 4412'

PBTD @ 4008'
TD @ 8091'

Blinebry perfs @ 5550'-5680'

Tubb perfs @ 6086'-6278'

Drinkard perfs @ 6420'-6430'

Drinkard perfs @ 6513'-6675'

Abo perfs @ 6836'-7388'

McKee perfs @ 7544'-7613'

Ellenburger OH

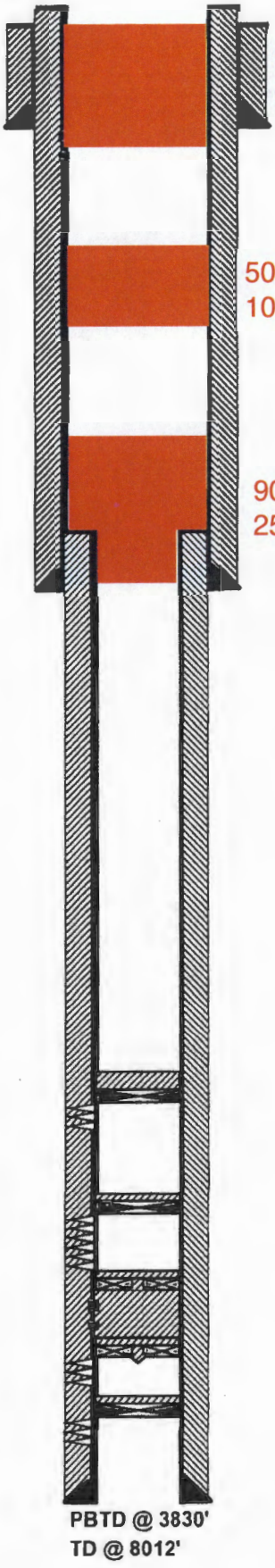
EXHIBIT G

Apache

WELL BORE INFO.

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

L-15-21s-37e
spud 7-19-51
P&A 11-1-11



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

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

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

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

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

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

PBTD @ 3830'
TD @ 8012'

EXHIBIT G

WELL DATA SHEET

spud 1-26-52

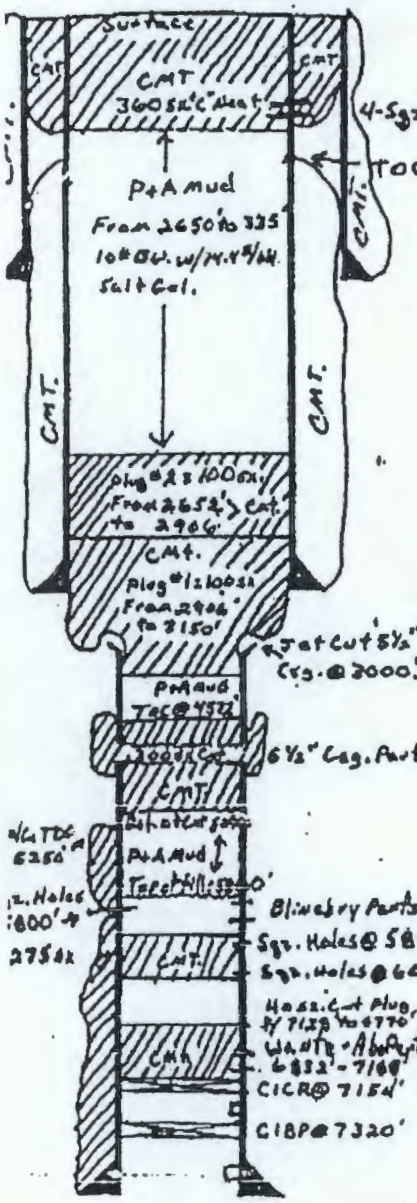
LEASE Elliott A WELL NO. 3 FIELD Blinebry DATE 2-5-95

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 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. ST+C Thd Gr H-40 + J-55 Csg set at 2942' w/ 1850 sx Cmt. Circ? No TOC at None' by TS

Blinebry Perfs 5804' to 5846'

5½" OD Gr N-80 + J55, 16.5+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, End 2-5-95
2-3-95 - 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 M.L.W. w/ 14.4 #/BH Salt Gel.
Test 9 5/8" Csg. to 500 psi - ok. - Perf 9 5/8" Csg. w/ 4 Sqz Holes @ 335'.
2-5-95 - Cmt. dn 9 5/8" Csg. Thru Sqz. Holes @ 335', 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 335' to Surface

Subsequent Workover or Reconditioning:

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

Remarks or Additional Data:

EXHIBIT G

Well Name:	Eubank #7			Unit:	B	Lease Type:	Fee
Location:	450' FNL & 2306' FEL	Sec:	22	Township:	21S	Range:	37E
County:	Lea	State:	NM	API:	30-025-06733	Formation:	

B-22-21s-37e
spud 7-24-51
P&A 2-21-14

Surface Csg

Size:	13 3/8"
Wt.&Thrd:	48#
Grade:	
Set @:	306'
Sxs cmt:	300
Circ:	Yes
TOC:	Surface
Hole Size:	17 1/4"

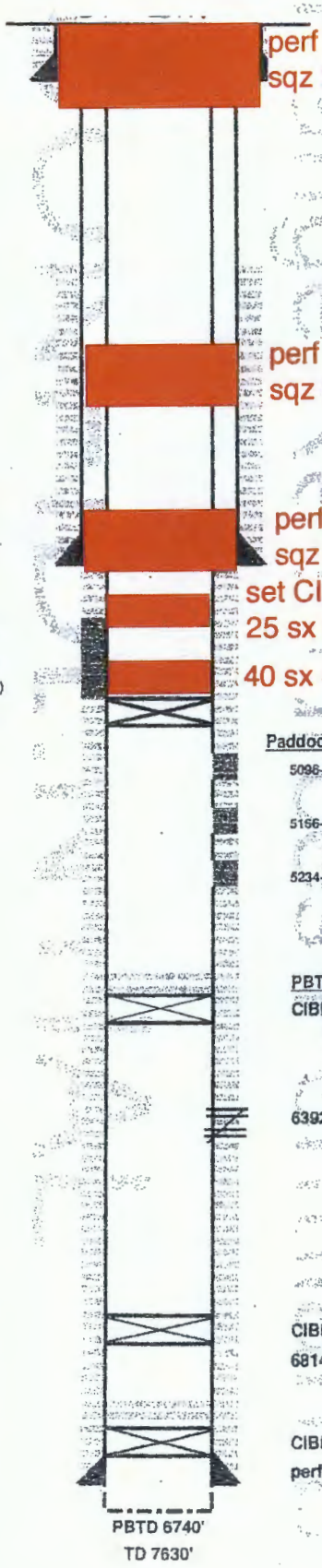
Intermediate Csg

Size:	9 5/8"
Wt.&Thrd:	36#
Grade:	
Set @:	2799'
Sxs Cmt:	1400
Circ:	
TOC:	445'
Hole Size:	12 1/4"

San Andres
3920-26' (16 holes)
3956-82' (26 holes)
3998-4026 (26 holes)
CIBP @ 5000

Production Csg

Size:	7"
Wt.&Thrd:	23#
Grade:	
Set @:	7629'
Sxs Cmt:	625
Circ:	
TOC:	3400'
Hole Size:	8 3/4"



perf @ 160' & 356'
sqz 210 sx GL - 356'

perf @ 1350'
sqz 80 sx 1050' - 1350'

perf @ 2850'
sqz 80 sx 2518' - 2850'

set CIBP @ 3870'
25 sx 3664' - 3870'

40 sx 4675' - 5000'

PBTD 6740'
TD 7630'

KB:	3438
DF:	
GL:	3424
Spud Date:	
Log Date:	2/26/1958

Paddock/Glorietta
5096-5108' (3 spf, 36 holes)
5156-80' (3 spf, 42 holes)
5234-60' & 80-5312' (2 spf, 116 holes)

PBTD @ 5402' (WLM)
CIBP @ 5400' w/ 35' cmt

6392-6618' Drinkard

CIBP @ 6750 w/2 sxs above perfs
6814-7046'

CIBP @ 7375' w/2 sxs cmt Above perfs 7535-7584'

EXHIBIT G

Northeast Drinkard Unit #804 **30-025-06743**

Sec. 22, T-21S, R-37E

1650' FNL & 1650' FWL

Lea County, New Mexico

F-22-21s-37e
spud 11-16-51
P&A 2-19-04

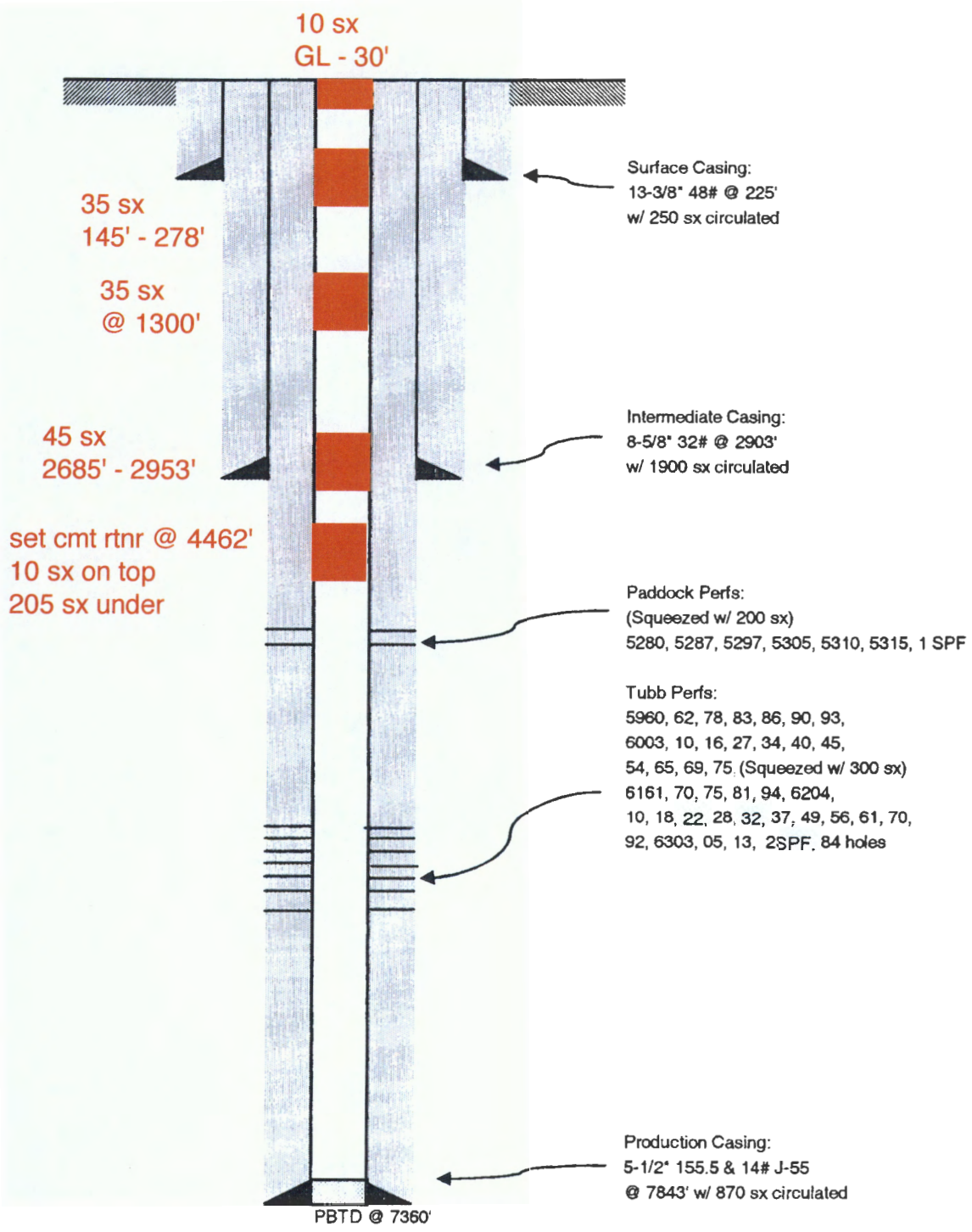


EXHIBIT G

Baker Petrolite

from WFX-784

South Permian Basin Region
10520 West I-20 East
Odessa, TX 79765
(915) 498-9191
Lab Team Leader - Sheila Hernandez
(915) 495-7240

Water Analysis Report by Baker Petrolite

Company:	APACHE CORPORATION	Sales RDT:	33102
Region:	PERMIAN BASIN	Account Manager:	MIKE EDWARDS (505) 910-9517
Area:	EUNICE, NM	Sample #:	223099
Lease/Platform:	NORTHEAST DRINKARD UNIT	Analysis ID #:	28971
Entity (or well #):	WATER INJECTION STATION	Analysis Cost	$40.00
Formation:	UNKNOWN		
Sample Point:	INJECTION PUMP DISCHARGE		

Summary	
Sampling Date:	10/3/02
Analysis Date:	10/4/02
Analyst:	SHEILA HERNANDE
TDS (mg/l or g/m3):	20702.9
Density (g/cm3, tonne/m3):	1.015
Anion/Cation Ratio:	1.000000
Carbon Dioxide:	80 PPM
Oxygen:	
Comments:	

Analysis of Sample 223099 @ 75 °F

Anions	mg/l	meq/l
Chloride:	10086.0	284.49
Bicarbonate:	671.0	11.
Carbonate:	0.0	0.
Sulfate	2465.0	51.32
Phosphate:		
Borate:		
Silicate:		
Hydrogen Sulfide:		90 PPM
pH at time of sampling:		7.5
pH at time of analysis:		
pH used in Calculation:		7.5

Cations	mg/l	meq/l
Sodium:	5799.5	252.26
Magnesium:	439.0	36.11
Calcium:	1098.0	54.84
Strontium:	28.0	0.64
Barium:	0.1	0.
Iron:	0.3	0.01
Potassium:	115.0	2.94
Aluminum:		
Chromium:		
Copper:		
Lead:		
Manganese:		
Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite $CaCO_3$		Gypsum $CaSO_4 \cdot 2H_2O$		Anhydrite $CaSO_4$		Celestite $SrSO_4$		Barite $BaSO_4$		CO_2 Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.18	75.54	-0.08	0.00	-0.14	0.00	0.07	2.75	0.75	0.00	0.21
100	0	1.25	85.15	-0.09	0.00	-0.09	0.00	0.07	3.09	0.60	0.00	0.3
120	0	1.33	95.11	-0.10	0.00	-0.02	0.00	0.09	3.78	0.47	0.00	0.42
140	0	1.41	105.41	-0.10	0.00	0.08	128.07	0.11	4.46	0.36	0.00	0.56

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

EXHIBIT H

UNICHEM

A Division of BJ Services Company

Lab Test No . 23748

Apache

Sample Date : 3/10/99

Water Analysis

Listed below please find water analysis report from : NEDU #919-S

Specific Gravity :	1.009
Total Dissolved Solids :	13273
pH :	6.49
Conductivity (µmhos):	
Ionic Strength :	0.265

WFX-774 application indicates this is San Andres source water

Cations:		mg/l
Calcium	(Ca++):	608
Magnesium	(Mg++):	244
Sodium	(Na+):	3909
Iron	(Fe++):	0.00
Dissolved Iron	(Fe++):	
Barium	(Ba++):	0.38
Strontium	(Sr):	19
Manganese	(Mn++):	0.01
Resistivity :		
Anions:		
Bicarbonate	(HCO3-):	562
Carbonate	(CO3--):	
Hydroxide	(OH-):	0
Sulfate	(SO4--):	1750
Chloride	(Cl-):	6200

Gases:		ppm		
Carbon Dioxide	(CO2):	80.00	Oxygen	(O2):
Hydrogen Sulfide	(H2S):	408.00		

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature		CaCO3 SI	CaSO4 SI
86F	30.0C	-0.14	-17.28
104F	40.0C	0.09	-17.28
122F	50.0C	0.35	-17.28
140F	60.0C	0.57	-16.80
168F	70.0C	0.87	-15.02
176F	80.0C	1.20	-15.51

Comments :

cc: Jerry White
Jay Brown

P.O. Box 61427 • Midland, TX 79711 • 4312 S. County Rd. 1298, Midland, TX 79765
Office: (915) 563-0241 • Fax: (915) 563 0243

TOPO! map printed on 10/01/17 from "Untitled.tpo"

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°

10/01/17

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*	315	8015		
CP 01141 POD3		CP	LE				15	21S	37E	673520	3594272	377	40		
CP 01141 POD2		CP	LE				15	21S	37E	673543	3594250	407	40		
CP 01141 POD4		CP	LE				15	21S	37E	673556	3594239	423	45		
CP 01575 POD1		CP	LE	1	2	1	22	21S	37E	673544	3594204	428	40	35	5
CP 01575 POD2		CP	LE	2	2	1	22	21S	37E	673615	3594181	501	35	35	0
CP 00731 POD1		CP	LE		2	1	22	21S	37E	673577	3594015*	567	8130		
CP 00732 POD1		CP	LE		4	1	22	21S	37E	673584	3593613*	898	6633		
CP 00554		CP	LE		2	2	16	21S	37E	672744	3595610*	1273	80	70	10
CP 01574 POD1		CP	LE	2	4	4	15	21S	37E	674559	3594598	1403	68	57	11
CP 01110 POD1		CP	LE		1	3	14	21S	37E	674586	3594648	1437	70		
CP 01110 POD2		CP	LE		1	3	14	21S	37E	674586	3594648	1437	70		
CP 01110 POD3		CP	LE		1	3	14	21S	37E	674586	3594648	1437	70		
CP 01110 POD4		CP	LE		1	3	14	21S	37E	674586	3594648	1437	20		
CP 01110 POD5		CP	LE		1	3	14	21S	37E	674586	3594648	1437	20		
CP 01185 POD3		CP	LE		1	3	14	21S	37E	674592	3594620	1439	70		
CP 01185 POD1		CP	LE		1	3	14	21S	37E	674598	3594689	1457	70		
CP 01185 POD4		CP	LE		1	3	14	21S	37E	674633	3594610	1478	70		
CP 01185 POD2		CP	LE		1	3	14	21S	37E	674623	3594674	1479	70		
CP 01574 POD2		CP	LE	1	3	3	14	21S	37E	674666	3594578	1507	68	57	11
CP 00235 POD3		CP	LE	1	1	1	23	21S	37E	674681	3594137*	1537	90	61	29
CP 00235 POD7		CP	LE	3	1	1	23	21S	37E	674681	3593937*	1584	85	65	20
CP 00733 POD1		CP	LE		3	3	22	21S	37E	673196	3592801*	1608	7864		
CP 00235 POD4		CP	LE	1	3	1	23	21S	37E	674688	3593735*	1662	100	80	20
CP 00235 POD6		CP	LE	2	1	1	23	21S	37E	674881	3594137*	1734	85	65	20
CP 00251 POD1		CP	LE	2	3	4	22	21S	37E	674099	3592915*	1760	103		
CP 00252 POD1		CP	LE	4	2	4	22	21S	37E	674493	3593125*	1845	106	78	28
CP 00235 POD2		CP	LE	1	2	1	23	21S	37E	675083	3594144*	1933	96	65	31

1 mile = 1610 m

CP 00881		CP	LE		4	4	22	21S	37E	674402	3592824*		2008	95	53	42
CP 00235 POD5		CP	LE	1	4	1	23	21S	37E	675090	3593742*		2034	90	70	20
CP 00235 POD9		CP	LE	3	4	1	23	21S	37E	675090	3593542*		2108	94	58	36
CP 00017 POD1		CP	LE	2	1	2	27	21S	37E	674106	3592513*		2115	101		
CP 00235 POD1		CP	LE	2	2	1	23	21S	37E	675283	3594144*		2131	81		
CP 00711		CP	LE	4	2	2	28	21S	37E	672900	3592291*		2134	100	65	35
CP 00240 POD1		CP	LE	4	2	1	23	21S	37E	675283	3593944*		2165			
CP 00241 POD1		CP	LE	4	2	1	23	21S	37E	675283	3593944*		2165	79		
CP 00285 POD1		CP	LE	3	1	2	27	21S	37E	673906	3592313*		2222	80		
CP 00294 POD1		CP	LE	1	3	1	27	21S	37E	673110	3592096*		2313			
CP 00239 POD1		CP	LE	1	1	2	23	21S	37E	675485	3594152*		2331	89	61	28
CP 00235 POD8		CP	LE	3	1	2	23	21S	37E	675485	3593952*		2361	94	58	36
CP 00236 POD1		CP	LE	3	1	2	23	21S	37E	675485	3593952*		2361	83		
CP 00293 POD1		CP	LE	2	4	1	27	21S	37E	673711	3592104*		2368	80		
CP 00736		CP	LE		3	1	27	21S	37E	673211	3591997*		2412	120	76	44
CP 00235 POD10		CP	LE	1	3	2	23	21S	37E	675492	3593749*		2415	92	60	32
CP 00235 POD11		CP	LE	1	3	2	23	21S	37E	675492	3593749*		2415	97	60	37
CP 00237 POD1		CP	LE	1	3	2	23	21S	37E	675492	3593749*		2415	84		
CP 00238 POD1		CP	LE	3	3	2	23	21S	37E	675492	3593549*		2478	81		
CP 00249 POD1		CP	LE	2	3	2	27	21S	37E	674113	3592111*		2484	102		
CP 00250 POD1		CP	LE	2	3	2	27	21S	37E	674113	3592111*		2484	101		
CP 00242 POD1		CP	LE	3	4	2	28	21S	37E	672708	3591889*		2561			
CP 01096 POD2		CP	LE	2	2	4	28	21S	37E	672976	3591731		2683	98	48	50
CP 00700		CP	LE			2	23	21S	37E	675794	3593851*		2684	75	65	10
CP 01095 POD2		CP	LE	2	2	4	28	21S	37E	672876	3591714		2710	109	48	61
CP 01095 POD1		CP	LE	2	2	4	28	21S	37E	672859	3591714		2711	108	48	60
CP 01096 POD1		CP	LE	2	2	4	28	21S	37E	672861	3591708		2718	108	48	60
CP 00562		CP	LE	1	2	2	23	21S	37E	675887	3594159*		2730	136	65	71
CP 00253 POD1		CP	LE	3	4	2	27	21S	37E	674315	3591918*		2742	101		
CP 00735		CP	LE		2	4	28	21S	37E	672816	3591588*		2842	105		
CP 00286 POD1		CP	LE	2	1	2	10	21S	37E	674019	3597338*		3050	70		
CP 01274 POD1		CP	LE		2	1	26	21S	37E	674992	3591934		3073	60		
CP 01274 POD2		CP	LE		2	1	26	21S	37E	674992	3591934		3073	60		
CP 00134 POD1		CP	LE	1	1	1	24	21S	37E	676289	3594166*		3130	85		
CP 00966 POD1		CP	LE	1	3	4	28	21S	37E	672306	3591367		3161	154		
CP 00965 POD1	R	CP	LE	1	3	4	28	21S	37E	672333	3591346		3174	123	60	63

EXHIBIT I

CP 01001 POD1	CP	LE	2	3	4	27	21S	37E	674108	3591371	3180	72	40	32
CP 00965 POD2	CP	LE	1	3	4	28	21S	37E	672273	3591336	3200	135		

Average Depth to Water: **58 feet**

Minimum Depth: **35 feet**

Maximum Depth: **80 feet**

Record Count: 66

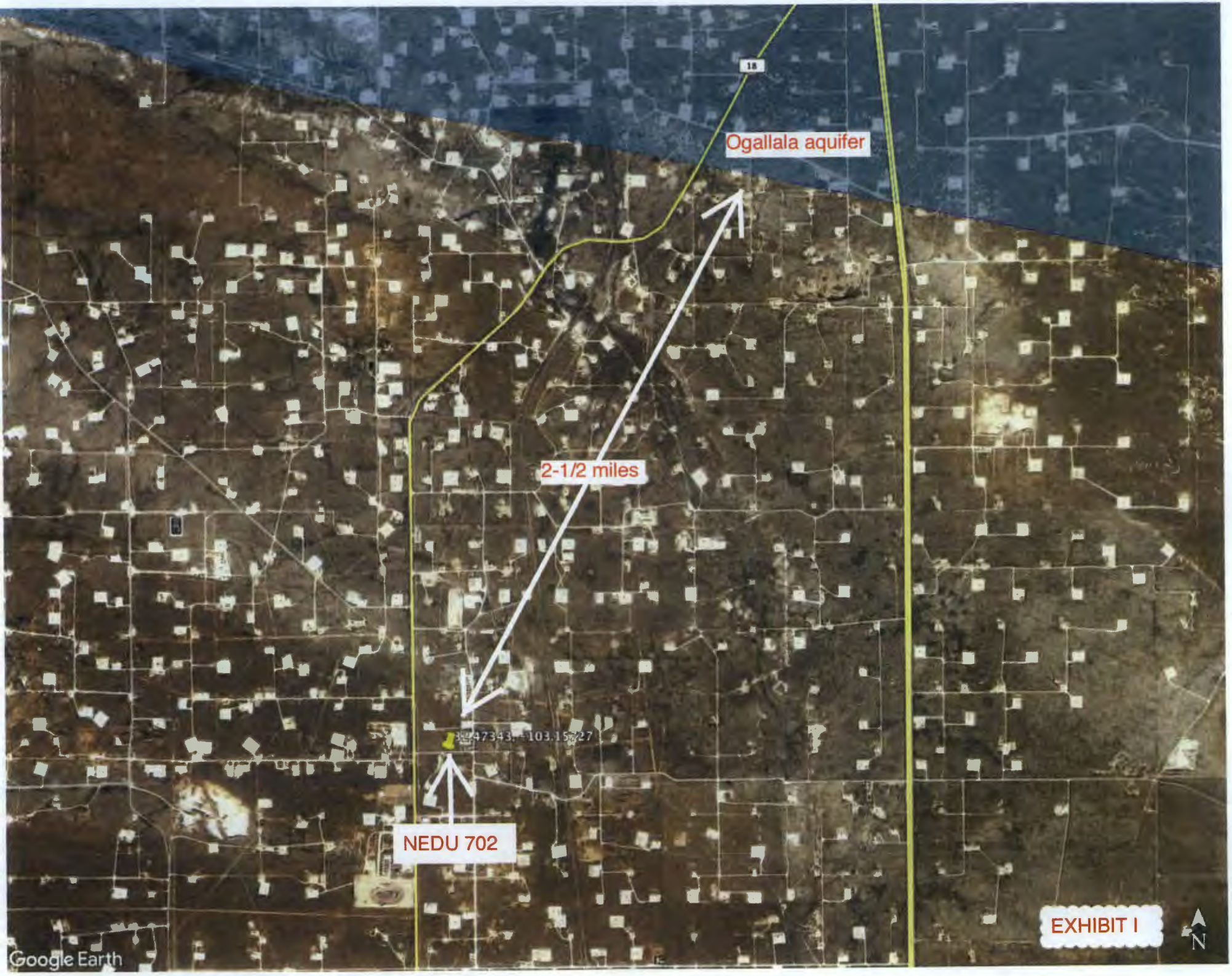
UTMNAD83 Radius Search (in meters):

Easting (X): 673168 **Northing (Y):** 3594409 **Radius:** 3220

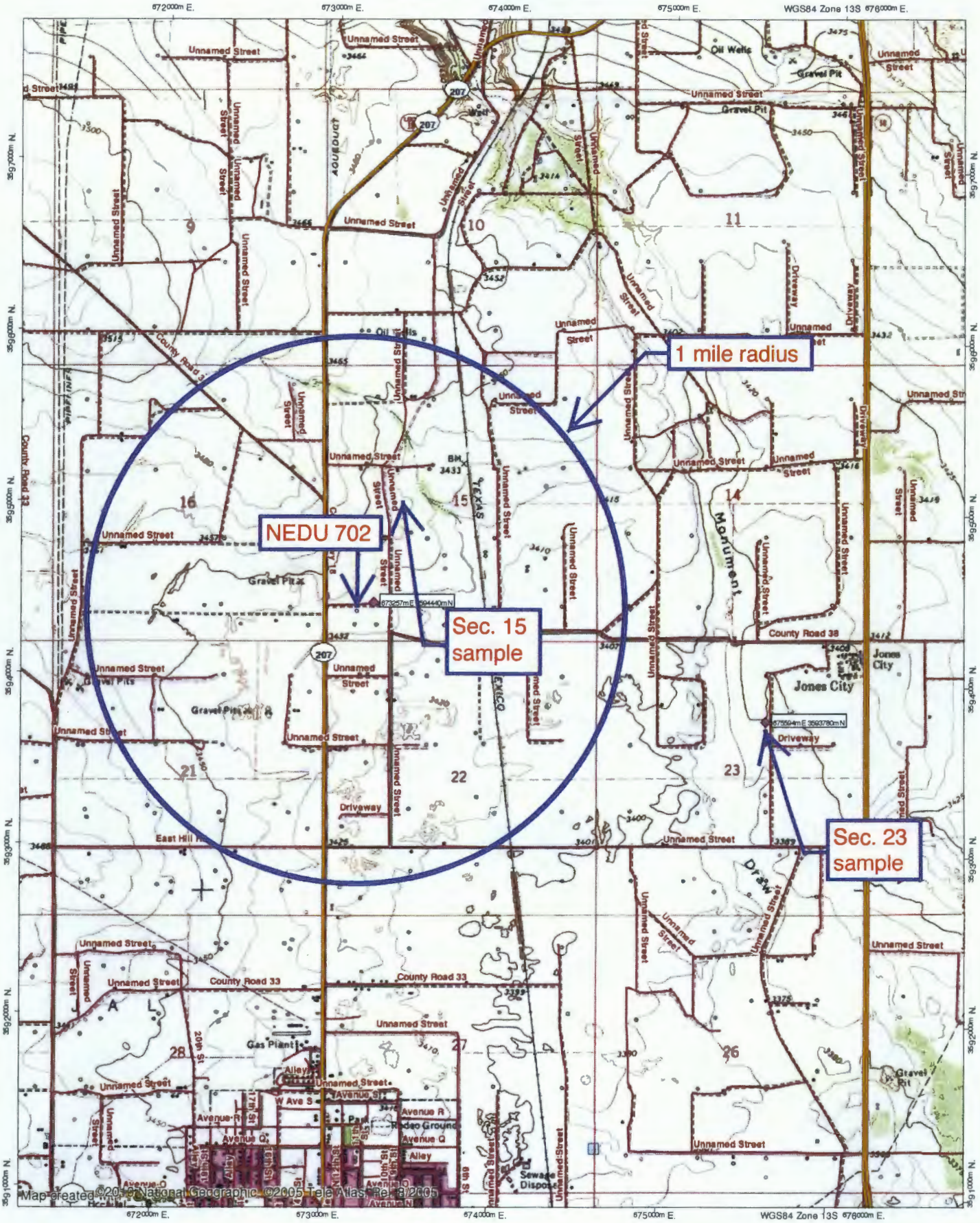
***UTM location was derived from PLSS - see Help**

10/1/17 1:29 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER


18
Ogallala aquifer
2-1/2 miles
NEDU 702
EXHIBIT I
N
Google Earth

TOPO! map printed on 10/22/17 from "Untitled.tpo"



NATIONAL GEOGRAPHIC

0 5 1 MILES
1000 0 1000 2000 3000 4000 5000 FEET
1 5 0 1 KILOMETERS
1000 0 1000 METERS

EXHIBIT I

TN MN
6.5°
10/22/17

Analytical Report
Lab Order **1710483**
Date Reported: **10/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West
Project: Apache NEDU 702
Lab ID: 1710483-001 **Matrix:** AQUEOUS

Client Sample ID: Decky Sec 15
Collection Date: 10/3/2017 2:17:00 PM
Received Date: 10/9/2017 2:43:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	480	50	*	mg/L	100	10/10/2017 2:21:28 AM
EPA METHOD 1664B						Analyst: **dbf**
N-Hexane Extractable Material	ND	10.6		mg/L	1	10/11/2017 2:00:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	1400	20.0	*	mg/L	1	10/11/2017 5:50:00 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
PQL	Practical Quanitative Limit	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 **1710483**
Date Reported: **10/17/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West
Project: Apache NEDU 702
Lab ID: 1710483-002 **Matrix:** AQUEOUS

Client Sample ID: Section 23 Tank
Collection Date: 10/3/2017 3:31:00 PM
Received Date: 10/9/2017 2:43:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **MRA**
Chloride	310	50	*	mg/L	100	10/10/2017 2:46:18 AM
EPA METHOD 1664B						Analyst: **dbf**
N-Hexane Extractable Material	ND	10.2		mg/L	1	10/11/2017 2:00:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	1090	20.0	*	mg/L	1	10/11/2017 5:50:00 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
PQL	Practical Quanitative Limit	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#: **1710483**

17-Oct-17

Client: Permits West

Project: Apache NEDU 702

Sample ID	**MB-34355**	SampType:	**MBLK**		TestCode:	**EPA Method 1664B**				
Client ID:	**PBW**	Batch ID:	**34355**		RunNo:	**46269**				
Prep Date:	**10/11/2017**	Analysis Date:	**10/11/2017**		SeqNo:	**1473638**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	ND	10.0								

Sample ID	**LCS-34355**	SampType:	**LCS**		TestCode:	**EPA Method 1664B**				
Client ID:	**LCSW**	Batch ID:	**34355**		RunNo:	**46269**				
Prep Date:	**10/11/2017**	Analysis Date:	**10/11/2017**		SeqNo:	**1473639**	Units:	**mg/L**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	36.8	10.0	40.00	0	92.0	78	114			

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
PQL	Practical Quanitative Limit	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#: **1710483**

17-Oct-17

Client: Permits West

Project: Apache NEDU 702

Sample ID **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R46225**	RunNo: **46225**
Prep Date:	Analysis Date: **10/9/2017**	SeqNo: **1471804** 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: **R46225**	RunNo: **46225**
Prep Date:	Analysis Date: **10/9/2017**	SeqNo: **1471805** 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	92.9	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
PQL	Practical Quanitative Limit	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#: **1710483**

17-Oct-17

Client: Permits West

Project: Apache NEDU 702

Sample ID **MB-34332**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **34332**	RunNo: **46275**
Prep Date: **10/10/2017**	Analysis Date: **10/11/2017**	SeqNo: **1473730** 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-34332**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **34332**	RunNo: **46275**
Prep Date: **10/10/2017**	Analysis Date: **10/11/2017**	SeqNo: **1473731** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	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
PQL	Practical Quanitative Limit	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

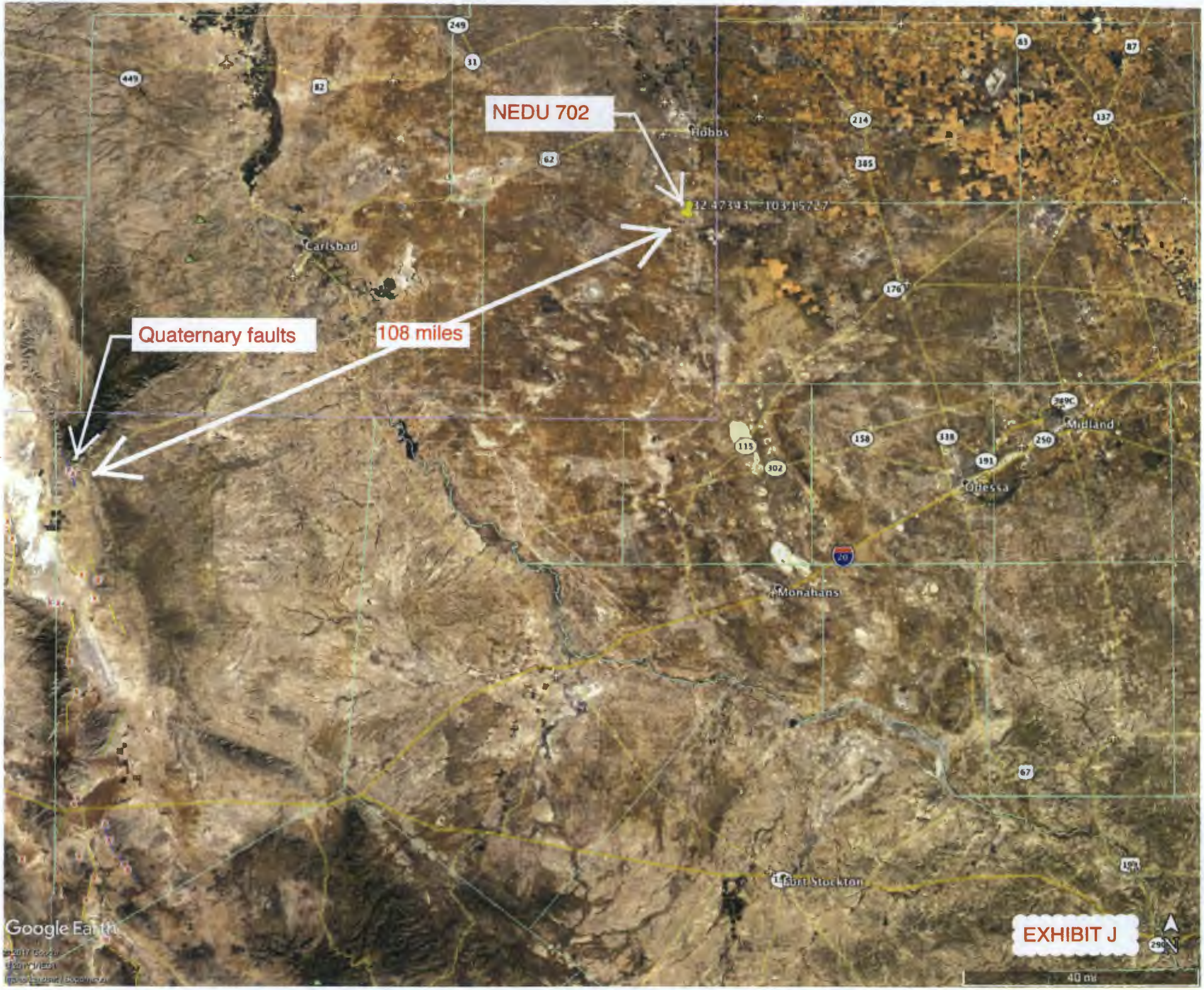
Form C-108
Affirmative Statement
Apache Corporation
Northeast Drinkard Unit
Section 15, T-21-S, R-37-E
Lea County, New Mexico

The extractions from the seismic data show no evidence of faulting at (or above) the Glorieta in this area and surface mapping from the USGS confirms that no faults are known at the surface. In addition, we have no empirical evidence that our injection operations at NEDU are affected by faulting at the Glorieta level, the evaporites, or the surface. Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.

Justin Wagner
Geologist I

8/14/2017
Date

EXHIBIT J


NEDU 702
Quaternary faults
108 miles
Hobbs
Carlsbad
Midland
Odessa
Monahans
Fort Stockton
Google Earth
EXHIBIT J

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

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

Beginning with the issue dated
October 04, 2017
and ending with the issue dated
October 04, 2017.

LEGAL NOTICE
October 4, 2017

Apache Corporation is applying to convert the Northeast Drinkard Unit 702 well to a water injection well. The well is at 660 FSL & 660 FWL, Sec. 15, T. 21 S., R. 37 E., Lea County, NM. This is 3 miles NNE of Eunice, NM. It will inject water into the Blinebry, Tubb, and Drinkard (maximum injection pressure = 1,375 psi) from 5,702' to 6,636'. Injection will be at a maximum rate of 2,000 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.
#32129

Daniel Russell
Publisher

Sworn and subscribed to before me this
4th day of October 2017.

Gussie Black
Business Manager

My commission expires
January 29, 2019
(Seal)

OFFICIAL SEAL
GUSSIE 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

00200515

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

October 23, 2017

Millard Deck Estate 4193
1235 North Loop West, Suite 205
Houston TX 77008

Apache Corporation is planning (see attached application) to deepen and convert its Northeast Drinkard Unit 702 oil well to a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: Northeast Drinkard Unit 702 (fee lease) TD: from 6646' to 6736
Proposed Injection Zones: Blinebry, Tubb, & Drinkard from 5702' to 6636'
Where: 660' FSL & 660' FWL Sec. 15, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 3 air miles NNE of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1167
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,

B. Wood

Brian Wood

7017 1450 0000 8558 9176

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OCT 23 2017
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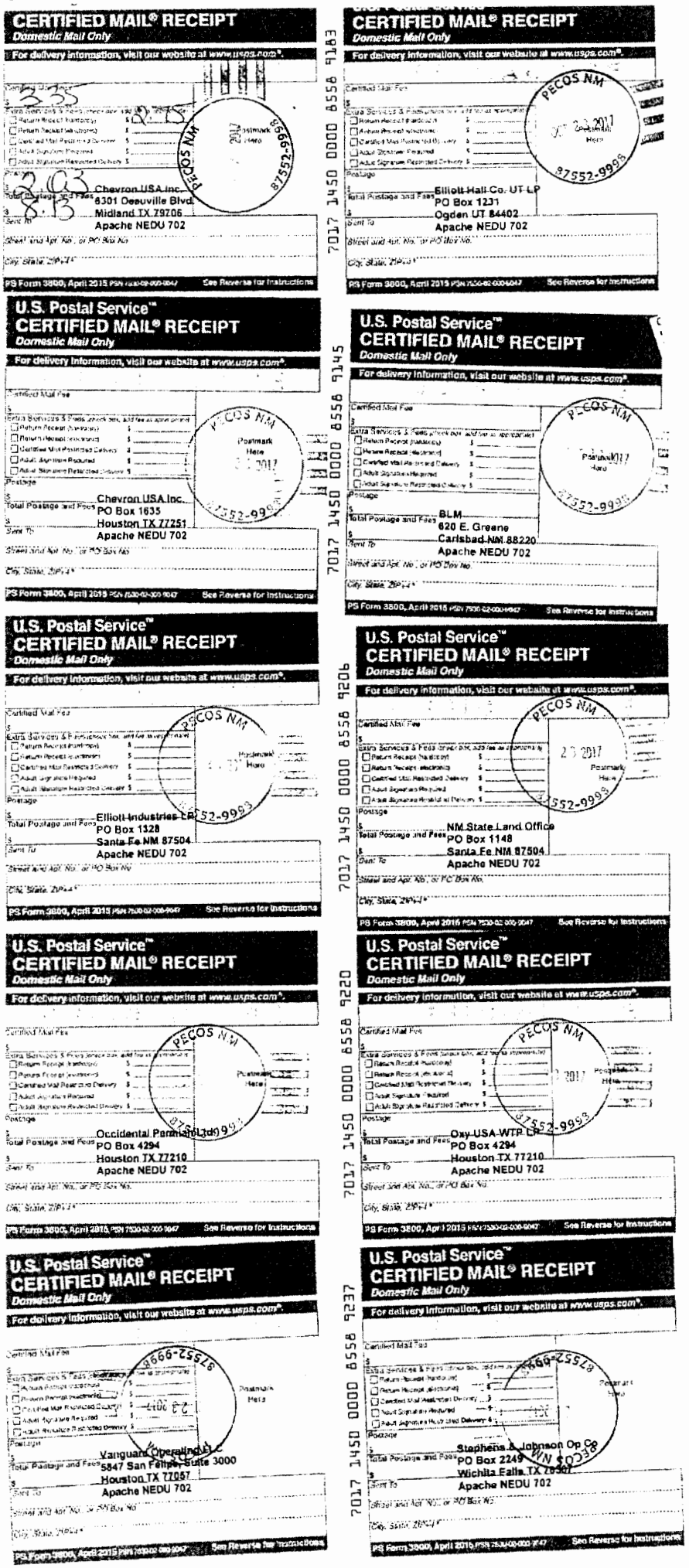
Millard Deck Estate 4193
1235 North Loop West, Suite 235
Houston TX 77008
Apache NEDU 702

EXHIBIT L



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

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620 E. Greene
Carlsbad NM 88220
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PECOS NM 87552-9998
Elliott-Industries LP
PO Box 1328
Santa Fe NM 87504
Apache NEDU 702

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Santa Fe NM 87504
Apache NEDU 702

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Occidental Permian Ltd.
PO Box 4294
Houston TX 77210
Apache NEDU 702

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Houston TX 77210
Apache NEDU 702

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PECOS NM 87552-9998
Vanguard Operating LLC
5847 San Felipe Suite 3000
Houston TX 77057
Apache NEDU 702

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Stephens & Johnson Op Co
PO Box 2249
Wichita Falls TX 76307
Apache NEDU 702

EXHIBIT L

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:

Millard Deck Estate 4193
1235 North Loop West, Suite 235
Houston TX 77008

Apache NEDU 702

9590 9402 2353 6225 9369 41

Article Number (Transfer from service label)
7017 1450 0000 8558 9176

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X A. Reyes ☑ Agent ☐ Addressee

B. Received by (Printed Name) Alyssa Dempsey C. Date of Delivery 10/26/17

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

3. Service Type
☐ Adult Signature ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
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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:

NM State Land Office
PO Box 1148
Santa Fe NM 87504

Apache NEDU 702

9590 9402 2353 6225 9369 10

2. Article Number (Transfer from service label)
7017 1450 0000 8558 9206

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ 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

OCT 26 2017
SANTA FE, NM

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

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

Article Addressed to:

BLM
620 E. Greene
Carlsbad NM 88220

Apache NEDU 702

9590 9402 2353 6225 9370 09

Article Number (Transfer from service label)
7017 1450 0000 8558 9145

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
10/27/17

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

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

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- 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 NEDU 702

9590 9402 2353 6225 9369 03

2. Article Number (Transfer from service label)
7017 1450 0000 8558 9213

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ 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
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☐ Adult Signature Restricted Delivery ☐ Registered Mail™
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Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Chevron USA Inc.
PO Box 1635
Houston TX 77251

Apache NEDU 702

9590 9402 2353 6225 9369 89

Article Number (Transfer from service label)
7017 1450 0000 8558 9169

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ 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 ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☑ Certified Mail® ☐ Registered Mail Restricted Delivery
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☐ Restricted Delivery

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

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1. Article Addressed to:

Oxy USA WTP LP
PO Box 4294
Houston TX 77210

Apache NEDU 702

9590 9402 2353 6225 9368 97

2. Article Number (Transfer from service label)
7017 1450 0000 8558 9220

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ 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 ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☑ Certified Mail® ☐ Registered Mail Restricted Delivery
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Article Addressed to:

Elliott Hall Co. UT LP
PO Box 1231
Ogden UT 84402

Apache NEDU 702

9590 9402 2353 6225 9369 34

Article Number (Transfer from service label)
7017 1450 0000 85.. 9183

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
10/27/17

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

3. Service Type
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Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

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1. Article Addressed to:

Stephens & Johnson Op Co
PO Box 2249
Wichita Falls TX 76307

Apache NEDU 702

9590 9402 2353 6225 9370 76

2. Article Number (Transfer from service label)
7017 1450 0000 8558 9237

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ 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 ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☑ Certified Mail® ☐ Registered Mail Restricted Delivery
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Complete items 1, 2, and 3.
Print your name and address on the reverse so that we can return the card to you.
Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Elliott Industries LP
PO Box 1328
Santa Fe NM 87504

Apache NEDU 702

9590 9402 2353 6225 9369 27

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
11.2.17

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

3. Service Type
☐ Adult Signature ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☑ Certified Mail® ☐ Registered Mail Restricted Delivery
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☐ Collect on Delivery

EXHIBIT L

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	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00235 POD1		CP	LE	2	2	1	23	21S	37E	675283	3594144*	81		
CP 00235 POD10		CP	LE	1	3	2	23	21S	37E	675492	3593749*	92	60	32
CP 00235 POD11		CP	LE	1	3	2	23	21S	37E	675492	3593749*	97	60	37
CP 00235 POD2		CP	LE	1	2	1	23	21S	37E	675083	3594144*	96	65	31
CP 00235 POD3		CP	LE	1	1	1	23	21S	37E	674681	3594137*	90	61	29
CP 00235 POD4		CP	LE	1	3	1	23	21S	37E	674688	3593735*	100	80	20
CP 00235 POD5		CP	LE	1	4	1	23	21S	37E	675090	3593742*	90	70	20
CP 00235 POD6		CP	LE	2	1	1	23	21S	37E	674881	3594137*	85	65	20
CP 00235 POD7		CP	LE	3	1	1	23	21S	37E	674681	3593937*	85	65	20
CP 00235 POD8		CP	LE	3	1	2	23	21S	37E	675485	3593952*	94	58	36
CP 00235 POD9		CP	LE	3	4	1	23	21S	37E	675090	3593542*	94	58	36
CP 00236 POD1		CP	LE	3	1	2	23	21S	37E	675485	3593952*	83		
CP 00237 POD1		CP	LE	1	3	2	23	21S	37E	675492	3593749*	84		
CP 00238 POD1		CP	LE	3	3	2	23	21S	37E	675492	3593549*	81		
CP 00239 POD1		CP	LE	1	1	2	23	21S	37E	675485	3594152*	89	61	28
CP 00240 POD1		CP	LE	4	2	1	23	21S	37E	675283	3593944*			
CP 00241 POD1		CP	LE	4	2	1	23	21S	37E	675283	3593944*	79		
CP 00251 POD1		CP	LE	2	3	4	22	21S	37E	674099	3592915*	103		
CP 00252 POD1		CP	LE	4	2	4	22	21S	37E	674493	3593125*	106	78	28

CP 00554	CP	LE		2	2	16	21S	37E	672744	3595610*	80	70	10
CP 00562	CP	LE	1	2	2	23	21S	37E	675887	3594159*	136	65	71
CP 00700	CP	LE			2	23	21S	37E	675794	3593851*	75	65	10
CP 00729 POD1	CP	LE	4	1	3	15	21S	37E	673259	3594711*	8015		
CP 00731 POD1	CP	LE		2	1	22	21S	37E	673577	3594015*	8130		
CP 00732 POD1	CP	LE		4	1	22	21S	37E	673584	3593613*	6633		
CP 00733 POD1	CP	LE		3	3	22	21S	37E	673196	3592801*	7864		
CP 00881	CP	LE		4	4	22	21S	37E	674402	3592824*	95	53	42
CP 01110 POD1	CP	LE		1	3	14	21S	37E	674586	3594648	70		
CP 01110 POD2	CP	LE		1	3	14	21S	37E	674586	3594648	70		
CP 01110 POD3	CP	LE		1	3	14	21S	37E	674586	3594648	70		
CP 01110 POD4	CP	LE		1	3	14	21S	37E	674586	3594648	20		
CP 01110 POD5	CP	LE		1	3	14	21S	37E	674586	3594648	20		
CP 01141 POD2	CP	LE				15	21S	37E	673543	3594250	40		
CP 01141 POD3	CP	LE				15	21S	37E	673520	3594272	40		
CP 01141 POD4	CP	LE				15	21S	37E	673556	3594239	45		
CP 01185 POD1	CP	LE		1	3	14	21S	37E	674598	3594689	70		
CP 01185 POD2	CP	LE		1	3	14	21S	37E	674623	3594674	70		
CP 01185 POD3	CP	LE		1	3	14	21S	37E	674592	3594620	70		
CP 01185 POD4	CP	LE		1	3	14	21S	37E	674633	3594610	70		
CP 01222 POD3	CP	LE	2	4	4	23	21S	37E	676036	3592871	60	48	12
CP 01574 POD1	CP	LE	2	4	4	15	21S	37E	674559	3594598	68	57	11
CP 01574 POD2	CP	LE	1	3	3	14	21S	37E	674666	3594578	68	57	11
CP 01575 POD1	CP	LE	1	2	1	22	21S	37E	673544	3594204	40	35	5
CP 01575 POD2	CP	LE	2	2	1	22	21S	37E	673615	3594181	35	35	0

Average Depth to Water: **60 feet**

Minimum Depth: **35 feet**

Maximum Depth: **80 feet**

Record Count: 44

PLSS Search:

Section(s): 14-16, 21-23 **Township:** 21S **Range:** 37E

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

11/20/17 10:29 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

C-108 Review Checklist: Received ________ Add. Request: ________ Reply Date: ________ Suspended: ________ *[Ver 15]*

ORDER TYPE: WFX / PMX / SWD Number: ________ Order Date: ________ Legacy Permits/Orders: R-8541-

IPI 183

Well No. 702 Well Name(s): NED 4 8-08-1947

API : 30-0 25-09911 Spud Date: ________ New or Old: ____ (*UIC Class II Primacy 03/07/1982*)

Footages 660FSL 660FWL Lot____ or Unit M Sec 15 Tsp 21S Rge 37E County Lea

General Location: 2 miles N/Eunice Pool: Eunice; BLi-Tu-Dr Pool No.: 2250

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

COMPLIANCE RULE 5.9: Total Wells: 2943 Inactive: 1 Fincl Assur: OK Compl. Order? NA **IS 5.9 OK?** Y **Date:** 11-22-2017

WELL FILE REVIEWED ○ Current Status: Active

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

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	17 1/2"/13 3/8"	316'	Stage Tool	250	Surface/Visual
Planned__or Existing __ Interm/Prod	11"/8 5/8"	2835'		800	Surface/Visual
Planned__or Existing __Interm/Prod	7 7/8/5 1/2	6529'		500	3650/CALC
Planned__or Existing __ Prod/Liner	4 3/4/4 1/2'				
Planned__or Existing __ Liner					
Planned__or Existing __ OH / PERF	5702/		Inj Length		

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		Drinkard	5118
Confining Unit: Litho. Struc. Por.		Bl-Simp Fb	6045
Proposed Inj Interval TOP:			
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 6646 PBTD ________

NEW TD 6736 NEW PBTD 6646

NEW Open Hole ✓ or NEW Perfs ○

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

Proposed Packer Depth 5652 ft

Min. Packer Depth ________ (100-ft limit)

Proposed Max. Surface Press. 1374 psi

Admin. Inj. Press. 1140 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P N/A *Noticed?* ____ **BLM Sec Ord** ○ **WIPP** ○ *Noticed?* ____ **Salt/Salado** T: 1320 B: 2446 **NW: Cliff House fm** ____

FRESH WATER: Aquifer Quaternary Max Depth 80 **HYDRO AFFIRM STATEMENT** **By Qualified Person** ✓

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

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

Disposal Int: Inject Rate (Avg/Max BWPD): 1.5K/2K Protectable Waters? N/A 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? ____ Total No. Wells Penetrating Interval: 44 Horizontals? ____

Penetrating Wells: No. Active Wells 34 Num Repairs? ____ on which well(s)? ________ Diagrams? ____

Penetrating Wells: No. P&A Wells ____ Num Repairs? ____ on which well(s)? ________ Diagrams? ____

NOTICE: Newspaper Date October 2017 Mineral Owner Mining BLM Surface Owner Millard Deck Estate N. Date October 2017

RULE 26.7(A): Identified Tracts? Y Affected Persons: Chevron, Elliott Hall, Elliott Industries N. Date October 2017

Order Conditions: Issues: Cement Liner to Surface

Add Order Cond: ________