Initial Application Part I

Received 11/1/21

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

H935Q-211030-C-1080 11/1/21 pBL2130553631

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.

WFX-1044

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 604
30-025-06591

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: OCT. 29, 2021

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

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.

I. Purpose is to convert an oil well to a water injection well. The well will inject (6420' - 6650') into the 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) 818-1062
Operator address: 303 Veterans Airpark Lane, Suite 3000
Midland, TX 79705
Contact for Application: Brian Wood (Permits West, Inc.)
Phone: (505) 466-8120

III. A. (1) Lease: NMSLO B0-1481-0018, aka, "State S"
Lease Size: 2,508.19 acres (see Exhibit A for C-102 and map)
Closest Lease Line: 330'
Lease Area: S2NW4 Section 15, T. 21 S., R. 37 E.
Unit Size: 4,938 acres
Closest Unit Line: 990'
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 1951 at 334' in a 17.5" hole and cemented to GL with 350 sacks. Cement circulated.

Intermediate casing (8.625", 24# & 32#, J-55) was set at 2835' in a 12.25" hole and cemented to GL with 500 sacks.

Production casing (5.5", 15.5#, J-55) was set at 8042' in a 7.875" hole and cemented with 400 sacks to 4550' (CBL). Well was completed open hole from 8022' to 8193' in the Ellenburger.

Well was plugged back (CIBP at 7990') and completed in the Blinebry (5793' - 5908') in 1963. Well was plugged back (CIBP at 6800' + 135' cement) and completed in the Blinebry, Tubb, and Drinkard (5746' - 6673') in 1989. A squeeze job was conducted in 2002. CBL found TOC at 2920'.

A 4.5", 11.6#, J-55 flush joint liner will be run to 6750' and cemented to GL. Liner will be perforated from 6420' to 6650' in the Tubb and Drinkard. 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 ≈6390'. (Top perforation will be 6420'.)

A. (4) A lock set injection packer will be set at 6390' (≈30' above the top perforation of 6420').

B. (1) Injection zone will be the Tubb - 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 6420' to 6650'. The well is cased.

B. (3) Well was originally drilled as an Ellenburger oil well.

B. (4) Will perforate from 6420' to 6650'.

B. (5) Next higher oil or gas zone within the area of review is the Blinebry at 5616' - 6091'. Injection interval will be 6420' - 6650'. Blinebry is unitized with the Tubb and Drinkard. Next lower oil or gas zone within the area of review is the Abo. Its top is at 6662'.

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. een 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 62 existing wells (39 producers + 12 injectors + 8 P&A + 2 SWD + 1 BSW) within a half-mile radius, regardless of depth. Exhibit C shows all 841 existing wells (594 oil or gas producing wells + 126 injection or disposal wells + 67 P & A wells + 3 waterflood supply wells + 1 brine supply well + 50 fresh water wells) within a two-mile radius.

Exhibit D shows and tabulates 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.

VI. Sixty-two existing wells are within a half-mile. Fifty-three of the wells penetrated the Tubb (top = 6092'). The 53 penetrators include 35 oil or gas wells, 9 water injectors, 7 P&A wells, and 2 SWD wells. Diagrams illustrating the 7 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 1284 psi (= 0.2 psi/foot x 6420' (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 Southwest Royalties' Central Drinkard Unit).

Notable depths are:

Quaternary = 0'
Rustler = 1290'
Yates = 2590'
Queen = 3421'
Penrose = 3680'
Grayburg = 3749'
San Andres = 3932'
Glorieta = 5132'
Paddock = 5196'
Blinebry = 5616'
Tubb = 6092'
injection interval = 6420' - 6650'
Drinkard = 6422'
Abo = 6662'
McKee = 7670'
Ellenburger = 8040'
Total Depth = 8193'

State Engineer records (Exhibit I) show four water wells are ≥6633' deep and within 0.71 to 2.00 mile radii. 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 136'. NEDU 604 is 2 miles south of the Ogallala aquifer and 9 miles northeast of the Capitan Reef. 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. via 8 SWD wells.

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

X. An electric log (SP-resistivity) log is on file with NMOCD.

XI. Water sample analyses from two water wells are in Exhibit J. Neither well is in the State Engineer's records. One is 1.15 miles northwest in Section 9. The other is 1.75 miles southwest in Section 21. They were the only active water wells within 2 miles that could be found and during October 6 and 21, 2021 field inspections. Two other water wells were found, but both were dry. One was 1.32 miles NNE in Section 10. It was equipped with an electric pump, but the power had been disconnected. The other is a defunct windmill 1.27 miles ENE in Section 14. Both may have produced from the red beds, 100' to 1000' deep.

XII. Apache (Exhibit K) 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. There are 116 Tubb and 144 Drinkard active 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, -971, and -975.

XIII. A legal ad (see Exhibit L) was published on September 23, 2021. Notice (this application) has been sent (Exhibit L) to the surface owner (NMSLO), lessees of record (Chevron USA, Occidental Permian, Oxy USA WTP, XTO Holdings), government lessors (BLM, NMSLO), operating rights holders (ConocoPhillips,

Penroc, Chevron USA Production, OXY USA WTP, & John Hendrix Corp.) all well operators (Chevron USA, Empire NM, Key, Southwest Royalties, XTO) within the ½ mile area of review.

EXHIBIT A

Supersedes C-1
Effective 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

Operator	Lease	Well No.
SHELL WESTERN E&P INC.	NORTHEAST DRINKARD UNIT	604

Unit Letter	Section	Township	Range	County
E	15	21S	37E	LEA

Actual Footage Location of Well:
2310 feet from the North line and 990 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3446		NORTH EUNICE BLINEBRY-TUBB-DRINKARD OIL & GAS	40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

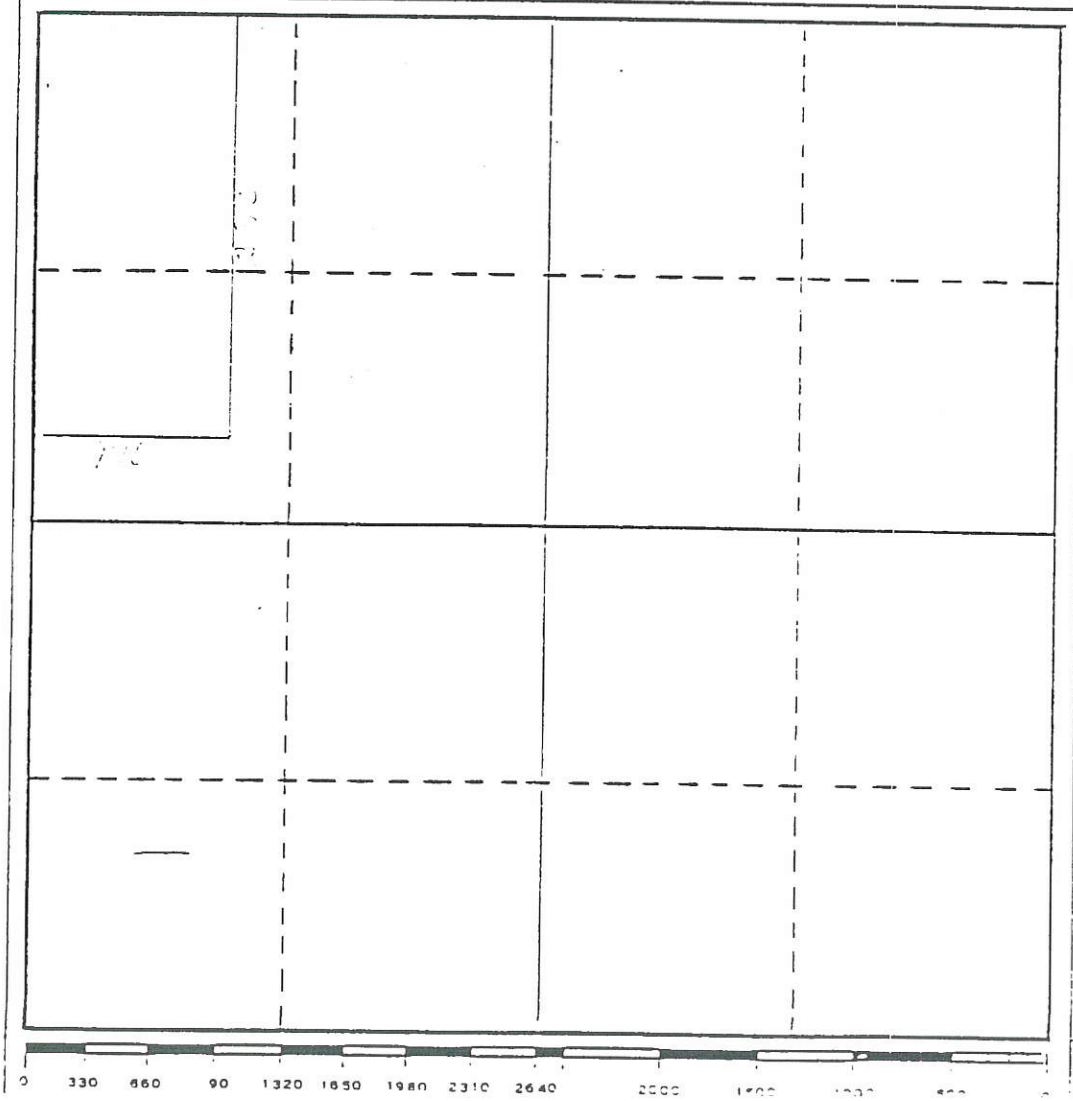
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

[X] Yes [ ] No If answer is "yes," type of consolidation UNITIZATION

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name A. J. FORE

Position SUPV. REG. & PERMITTING

Company SHELL WESTERN E&P INC.

Date DEC 1 1987

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 knowledge and belief.

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

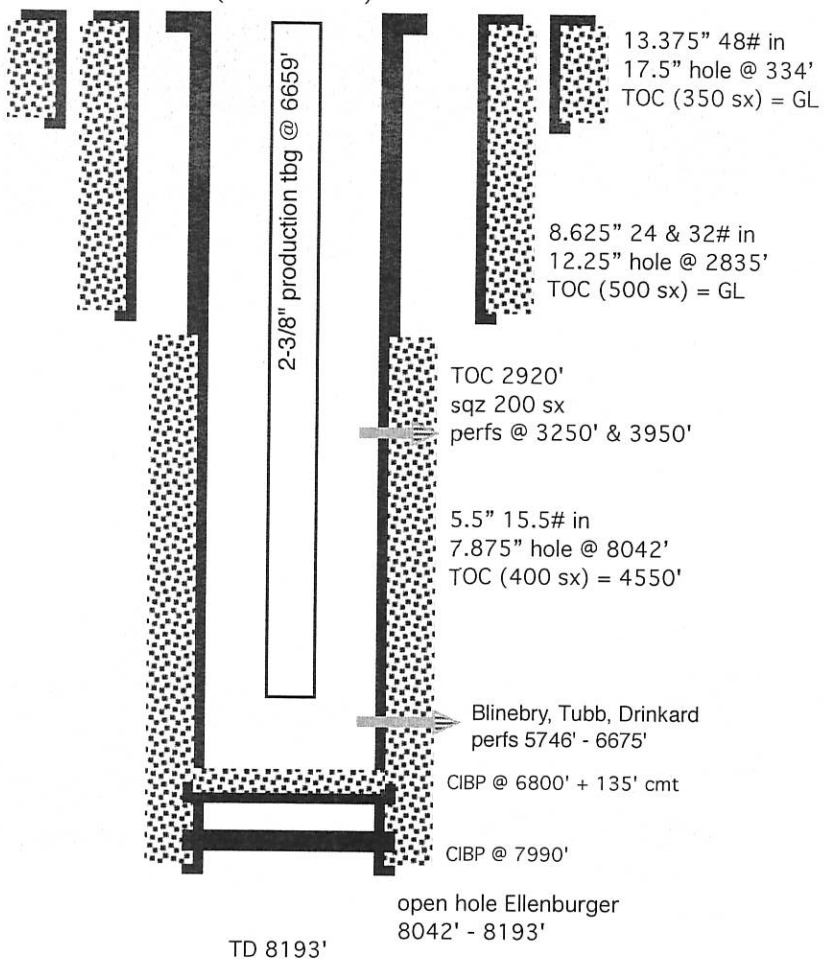
WELL NAME & NUMBER: NORTHEAST DRINKARD UNIT 604

WELL LOCATION:	2310' FNL & 990' FWL	E	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: 350 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: CIRC.

Intermediate Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 500 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: ESTIMATED

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 400 sx. *or* _____ ft³

Top of Cement: 4550' Method Determined: CBL

Total Depth: 8193'

Injection Interval

6420' feet to 6650'

(Perforated or Open Hole; indicate which)

Side 1

INJECTION WELL DATA SHEET

OPERATOR: APACHE CORPORATION

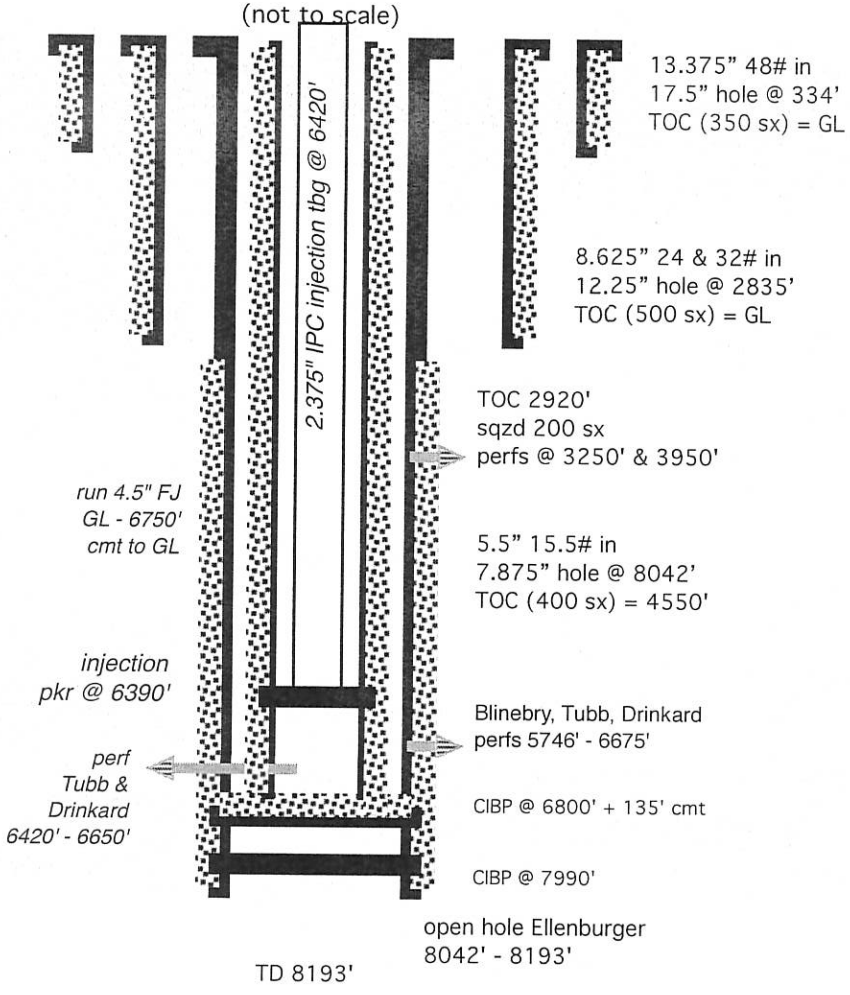
WELL NAME & NUMBER: NORTHEAST DRINKARD UNIT 604

WELL LOCATION:				
2310' FNL & 990' FWL	E	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: 350 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: CIRC.

Intermediate Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 500 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: ESTIMATED

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 400 sx. *or* _____ ft³

Top of Cement: 4550' Method Determined: CBL

Total Depth: 8193'

Injection Interval

6420' feet to 6650'

(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: ≈6390'

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? ELLENBURGER OIL WELL

2. Name of the Injection Formation: 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 (3749'), SAN ANDRES (3932'), BLINEBRY (5616')

   UNDER: ABO (6662'), SIMPSON (7553'), McKEE (7670'), ELLENBURGER (8040')

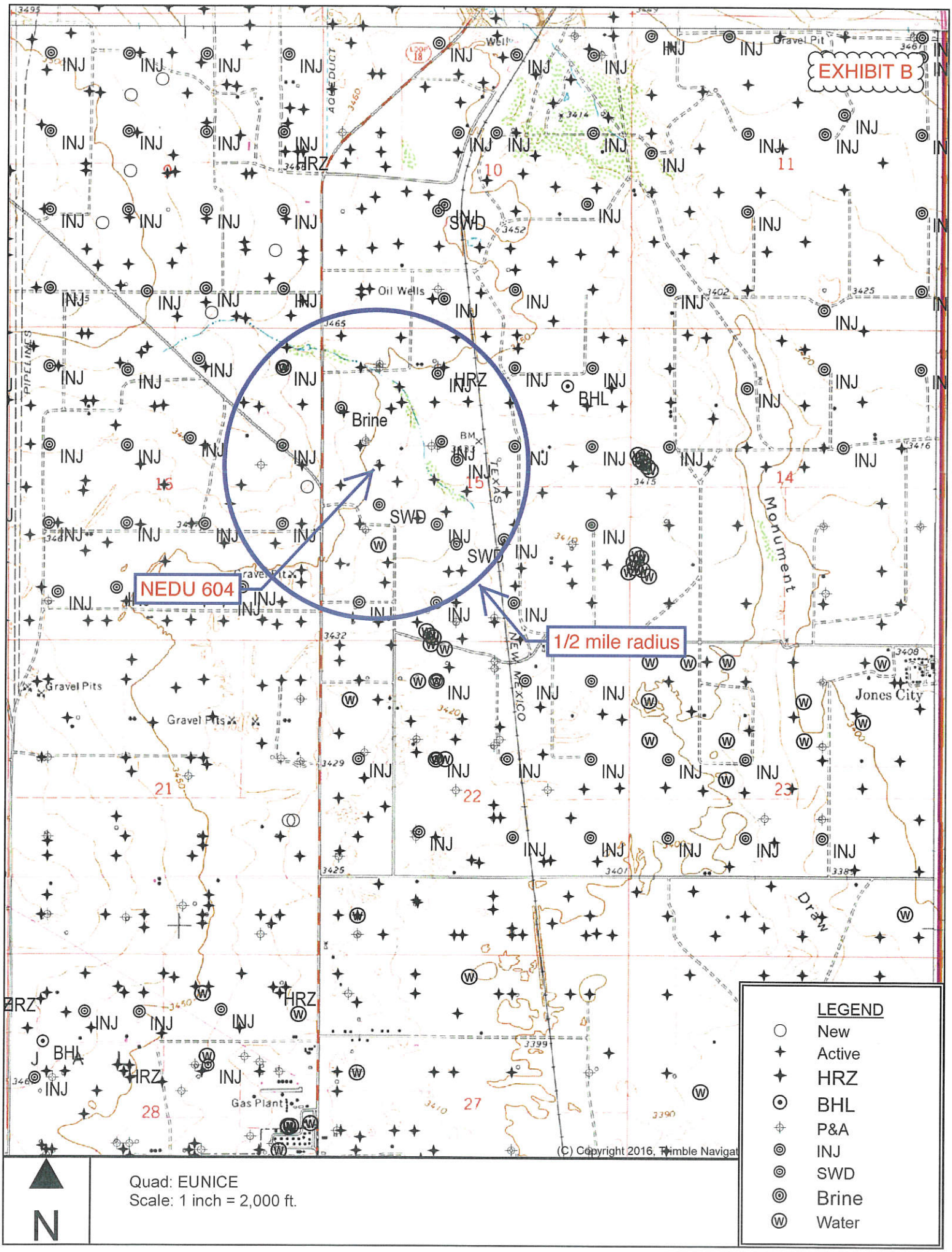


EXHIBIT B
NEDU 604
1/2 mile radius
Brine
Oil Wells
Gravel Pits
Gravel Pit
Jones City
Gas Plant
Monument Draw
NEW MEXICO
TEXAS
PIPELINES
AQUEDUCT
BHL
HRZ
SWD
INJ
10
11
14
15
21
22
23
27
28
N
Quad: EUNICE
Scale: 1 inch = 2,000 ft.
LEGEND
New
Active
HRZ
BHL
P&A
INJ
SWD
Brine
Water
(C) Copyright 2016, Trimble Navigat

WELLS WITHIN 1/2 MILE RADIUS OF NEDU 604

API	OPERATOR	WELL	STATUS	UL-SEC-T21S-R37E	TVD	ZONE @ TD	FEET FROM NEDU 604
3002535271	Apache	NEDU 625	O	E-15	6840	Abo	418
3002509914	Apache	NEDU 602	O	E-15	6669	Drinkard	462
3002509913	Shell	NEDU 603	P&A	E-15	8182	Ellenburger	492
3002509915	Apache	Argo 7	SWD	L-15	8193	Granite Wash	660
3002537238	Apache	NEDU 629	O	L-15	6900	Abo	744
3002506590	Apache	NEDU 608	P&A	F-15	7850	Simpson	956
3002541600	Apache	NEDU 544	O	E-15	6950	Abo	973
3002541275	Apache	NEDU 650	O	F-15	6765	Abo	975
3002509916	Apache	NEDU 701	I	L-15	6654	Drinkard	1047
3002506585	Apache	Cities S State 002	P&A	F-15	6676	Drinkard	1051
3002537223	Apache	NEDU 628	O	E-15	7106	Abo	1084
3002506587	Apache	NEDU 606	I	F-15	8032	Granite Wash	1114
3002506607	Apache	Argo 011	O	K-15	7891	Ellenburger	1116
3002506606	Apache	Argo 010	P&A	L-15	8015	Ellenburger	1117
3002534887	Apache	NEDU 624	O	C-15	6860	Abo	1124
3002533547	Key	State 001	BSW	E-15	2200	Salado	1170
3002506624	SW Royalties	Harry Leonard NCT E 005	O	H-16	8220	Connell	1323
3002506588	Apache	NEDU 610	I	G-15	7798	Granite Wash	1334
3002541485	SW Royalties	State S 012	O	C-15	4110	San Andres	1361
3002539828	Apache	Argo 014	O	K-15	4403	San Andres	1392
3002509918	Apache	NEDU 703	I	K-15	6645	Drinkard	1409

EXHIBIT B

WELLS WITHIN 1/2 MILE RADIUS OF NEDU 604

API	OPERATOR	WELL	STATUS	UL-SEC-T21S-R37E	TVD	ZONE @ TD	FEET FROM NEDU 604
3002541583	Apache	NEDU 661	O	C-15	6963	Abo	1427
3002534657	Apache	NEDU 623	O	K-15	6840	Abo	1565
3002506612	Chevron	State S 005	P&A	D-15	8148	Granite Wash	1646
3002534888	Apache	NEDU 713	O	L-15	6790	Abo	1652
3002506617	Apache	State DA 005	O	I-16	8330	Ellenburger	1654
3002539277	Apache	WBDU 113	O	A-16	6912	Abo	1669
3002506586	Chevron	State S 001	O	D-15	6660	Drinkard	1679
3002506621	Apache	WBDU 056	I	H-16	6614	Drinkard	1687
3002506614	Apache	NEDU 601	P&A	D-15	8145	Granite Wash	1706
3002537243	Apache	NEDU 721	O	M-15	6850	Abo	1790
3002506613	Apache	NEDU 605	I	C-15	7675	Connell	1840
3002534649	Apache	NEDU 622	O	C-15	6840	Abo	1862
3002506603	Apache	Argo 006	SWD	K-15	7991	Granite Wash	1877
3002506609	Chevron	State S 002	P&A	C-15	6662	Drinkard	1925
3002506619	Apache	WBDU 078	I	I-16	6644	Drinkard	1929
3002506611	SW Royalties	State S 004	O	C-15	7896	Granite Wash	1979
3002539557	Apache	Argo 013	O	M-15	4409	San Andres	1987
3002537834	Chevron	Harry Leonard NCT E 008	P&A	H-16	4300	San Andres	2026
3002541276	Apache	NEDU 726	O	N-15	6879	Abo	2159
3002534886	Apache	NEDU 524	O	C-15	6860	Abo	2177
3002541285	Apache	NEDU 651	O	J-15	6857	Abo	2206

EXHIBIT B

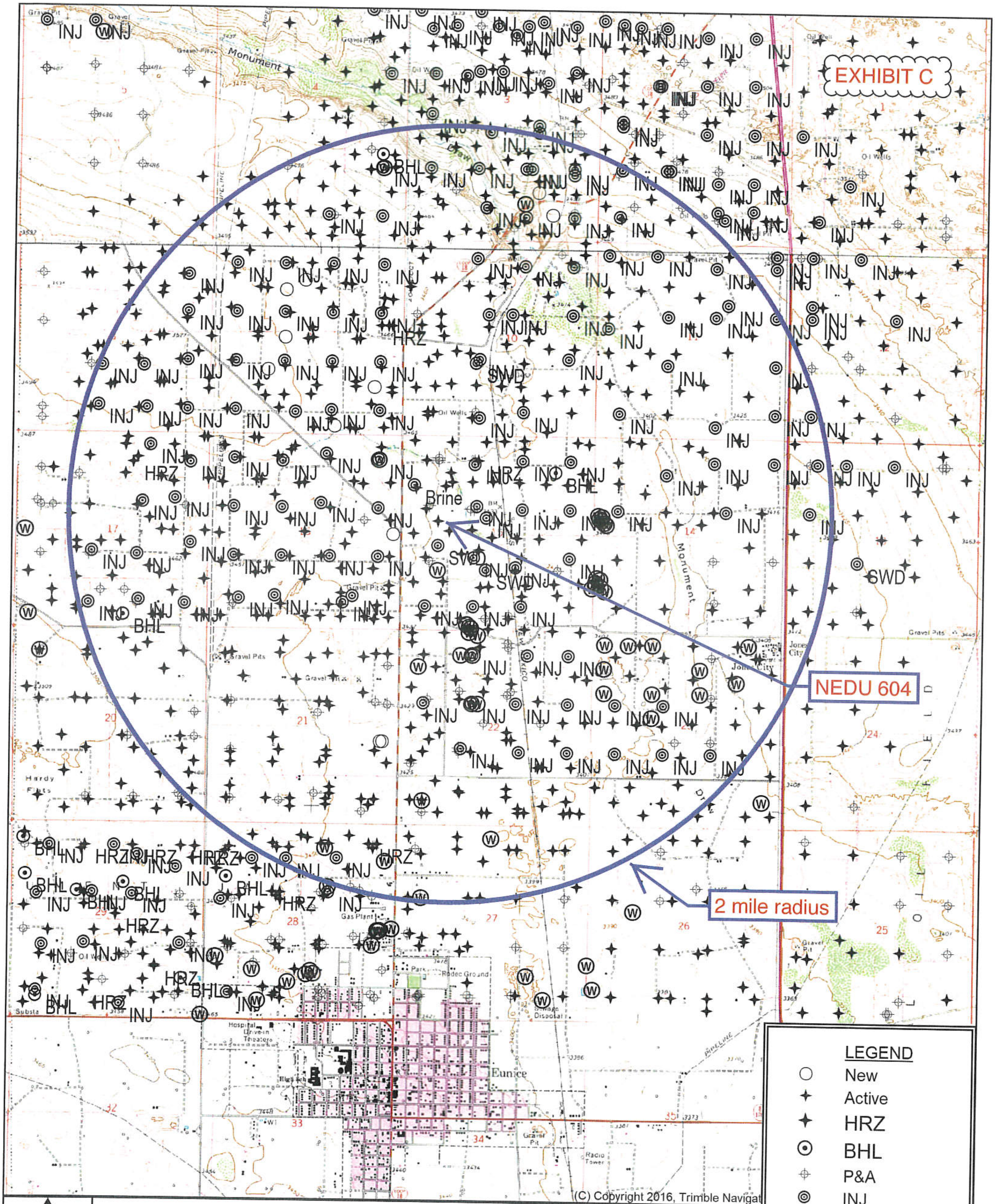
WELLS WITHIN 1/2 MILE RADIUS OF NEDU 604

API	OPERATOR	WELL	STATUS	UL-SEC-T21S-R37E	TVD	ZONE @ TD	FEET FROM NEDU 604
3002539963	Apache	WBDU 114	O	P-16	6970	Abo	2212
3002537916	Apache	State DA 013	O	I-16	4398	San Andres	2213
3002536809	Apache	NEDU 526	O	D-15	6900	Abo	2274
3002535272	Apache	NEDU 714	O	N-15	6780	Abo	2276
3002536741	SW Royalties	Harry Leonard NCT E 007	O	H-16	4345	San Andres	2287
3002509912	Apache	NEDU 611	I	G-15	6641	Drinkard	2316
3002506623	Apache	WBDU 057	I	A-16	6699	Drinkard	2336
3002509911	Apache	NEDU 702	I	M-15	6646	Drinkard	2337
3002538231	Apache	WBDU 082	O	J-16	6875	Abo	2382
3002539449	Apache	State Land 15 017	O	P-16	4415	San Andres	2384
3002541584	Apache	NEDU 662	O	B-15	6958	Abo	2445
3002506601	Apache	NEDU 707	I	J-15	7670	McKee	2462
3002506592	Apache	NEDU 706	O	J-15	6629	Drinkard	2497
3002506597	Apache	L G Warlick C 006	O	J-15	7847	Ellenburger	2508
3002509917	Apache	NEDU 704	I	N-15	6630	Drinkard	2521
3002541598	Apache	NEDU 558	O	C-15	6950	Abo	2525
3002525198	SW Royalties	Harry Leonard NCT E 006	O	A-16	6720	Drinkard	2541
3002539119	Apache	WBDU 098	O	B-16	6880	Abo	2554
3002506608	Apache	Argo 012	O	M-15	8035	Ellenburger	2611
3002536786	Apache	State DA 010	O	J-16	4345	San Andres	2633
3002506605	*Apache*	*NEDU 723*	*O*	*M-15*	*8179*	*Granite Wash*	*2644*

EXHIBIT B

WELLS WITHIN 1/2 MILE RADIUS OF NEDU 604

API	OPERATOR	WELL	STATUS	UL-SEC-T21S-R37E	TVD	ZONE @ TD	FEET FROM NEDU 604
3002506604	*Apache*	*Argo 008*	*O*	*N-15*	*8002*	*Granite Wash*	*2670*



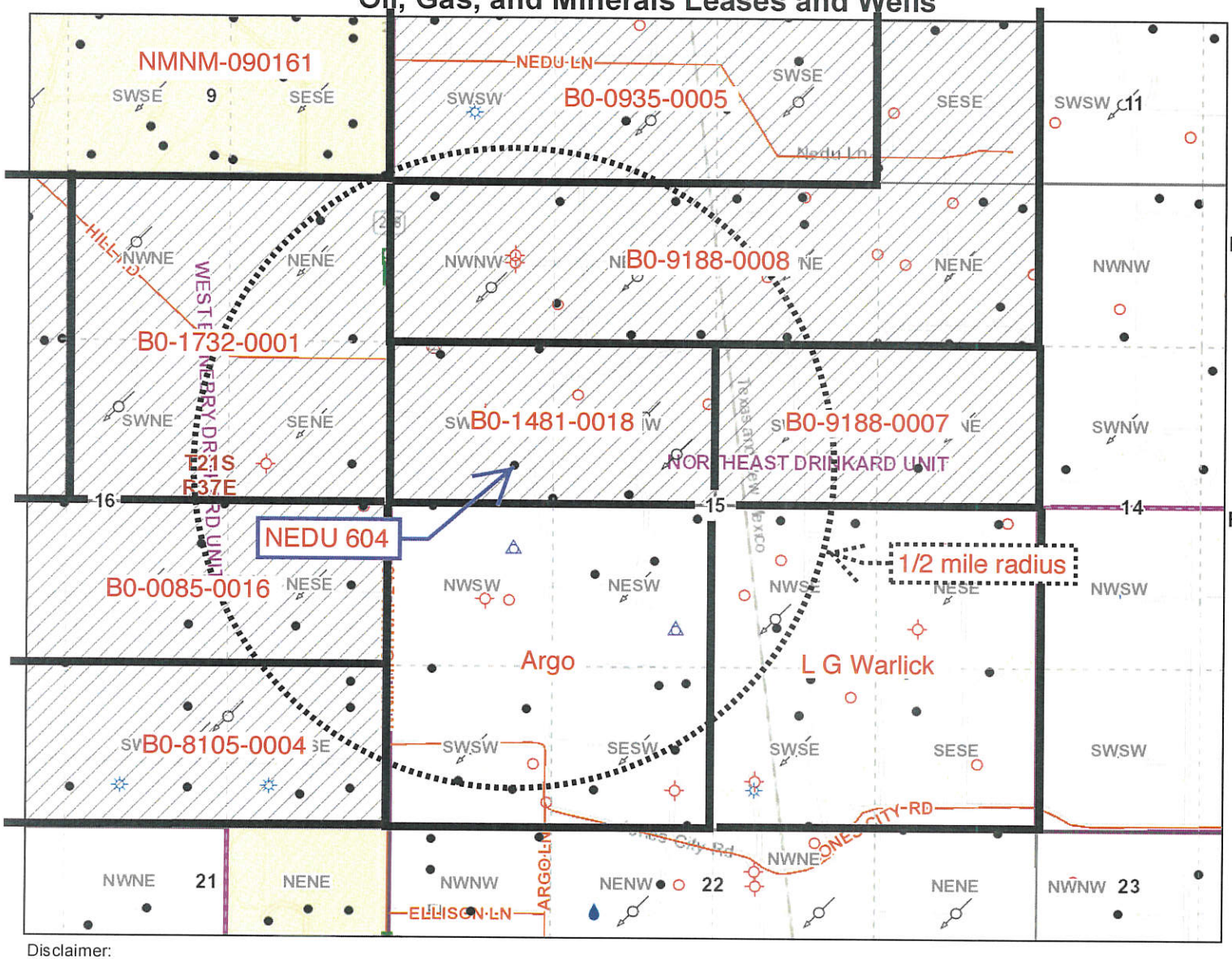
LEGEND
- New
- Active
- HRZ
- BHL
- P&A
- INJ
- SWD
- Brine
- Water

N

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

New Mexico State Land Office

Oil, Gas, and Minerals Leases and Wells



- Subdivisions

Active Wells

- Water Storage
- Miscellaneous
- Salt Water Disposal
- Injection
- Carbon Dioxide
- Gas
- Oil

Inactive Wells

- Plugged / Dry / Abandoned
- Cancelled / Not Drilled

- Highway Mileposts
- Detailed Roads
- Unit Agreement Boundaries
- Oil and Gas Leases

Federal Minerals Ownership

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

Created: 10/24/2021

N

0 0.15 0.3 0.6 mi

0 0.25 0.5 1 km

EXHIBIT D

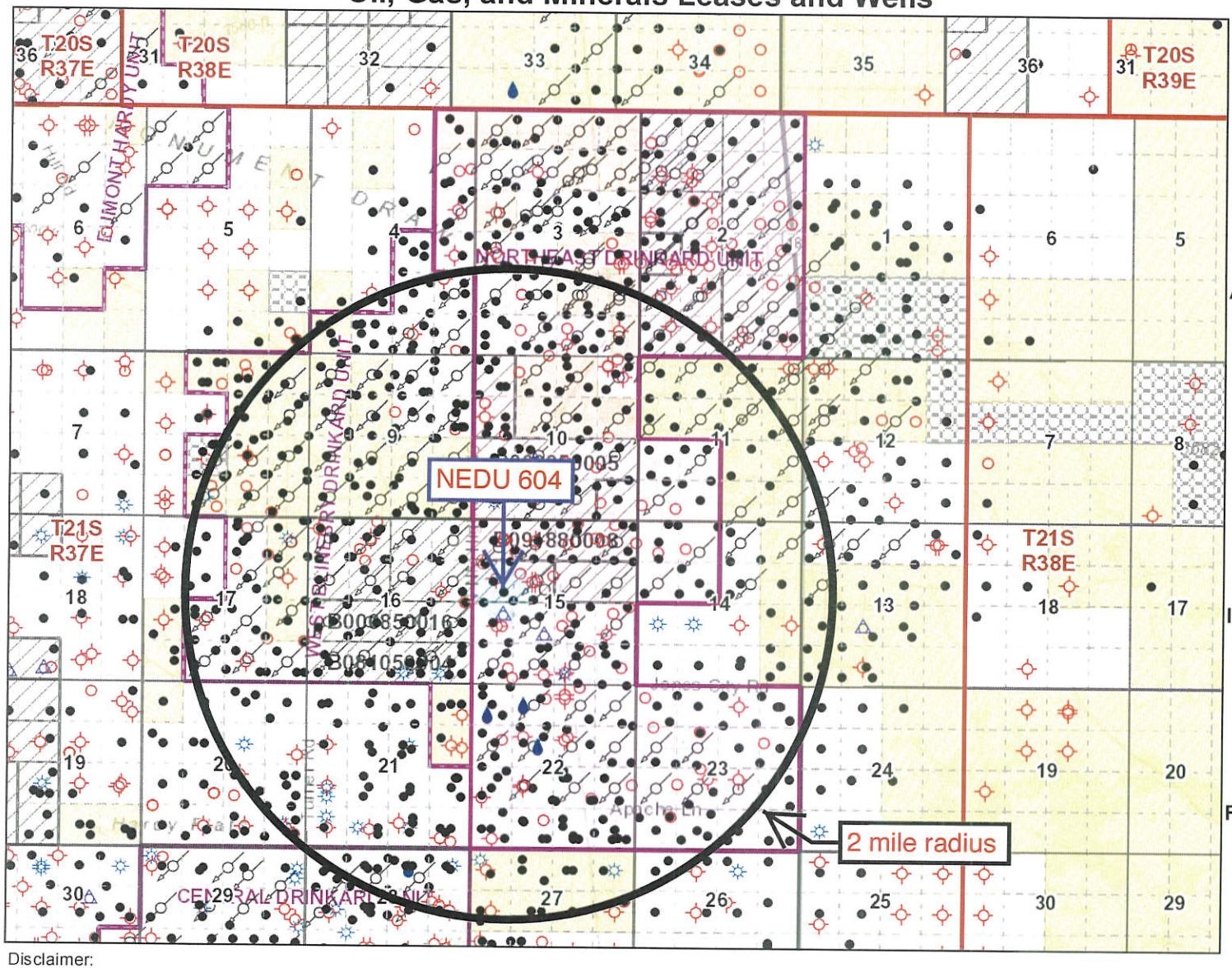
NEDU 604 AREA OF REVIEW LEASES

Aliquot Parts in Area of Review (T. 21 S., R. 37 E.)	Lessor	Lease	Lessee(s) of Record	Well Operators
SESE Sec. 9	BLM	NMNM-090161	Apache & Chevron	Apache
S2SW4 Sec. 10	NMSLO	B0-0935-0005	XTO	Apache, Empire, XTO
NWNE & N2NW4 Sec. 15	NMSLO	B0-9188-0008	Chevron	Apache, Chevron, SW Royalties
S2NW4 Sec. 15	NMSLO	B0-1481-0018	Oxy	Apache, Key
SWNE Sec. 15	NMSLO	B0-9188-0007	Occidental	Apache
W2SE4 Sec. 15	fee	L G Warlick	Apache	Apache
SW4 Sec. 15	fee	Argo	Apache	Apache
NE4 Sec. 16	NMSLO	B0-1732-0001	Chevron	Apache, SW Royalties
N2SE4 Sec. 16	NMSLO	B0-0085-0016	Apache	Apache
SESE Sec. 16	NMSLO	B0-8105-0004	Apache	Apache

EXHIBIT D

New Mexico State Land Office

Oil, Gas, and Minerals Leases and Wells



pointLayer
- Override 1

pointLayer
- Override 1

- County Seats
- State Boundary
- County Boundaries
- Townships
- Sections
- Subdivisions

Active Wells
- Water Storage
- Miscellaneous
- Salt Water Disposal
- Injection
- Carbon Dioxide
- Gas
- Oil

Inactive Wells
- Plugged / Dry / Abandoned
- Cancelled / Not Drilled

- Unit Agreement Boundaries
- Oil and Gas Leases

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

EXHIBIT E

Created: 10/24/2021

N

0 0.5 1 2 mi

0 1 2 4 km

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
NEDU 625	6/5/01	6840	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1219	460 sx	GL	Circ 81 sx
3002535271					7.875	5.5	6840	1450 sx	GL	Circ 117 sx
E-15-21S-37E										
NEDU 602	4/11/48	6669	Eunice; Bli-Tu-Dr, N	O	17.25	13.375	280	300 sx	GL	Circ
3002509914					11.25	8.625	2788	800 sx	2105	N/A
E-15-21S-37E					7.875	5.5	6612	350 sx	4250	Temp survey
NEDU 603	2/18/51	8182	Eunice; Bli-Tu-Dr, N	P&A	17.25	13.625	312	325 sx	GL	Circ
3002509913					11.75	8.625	2818	500 sx	GL	Circ
E-15-21S-37E					7.875	5.5	8030	400 sx	5115	Temp survey
Argo 7	4/13/51	8193	SWD; San Andres	SWD	17.5	13.375	223	250 sx	GL	Circ
3002509915					11	8.625	2907	1900	GL	Circ
L-15-21S-37E					7.875	5.5	8016	779	3280	CBL

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
NEDU 629	6/25/05	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1200	575 sx	GL	Circ
3002537238					7.875	5.5	6900	1300 sx	130	CBL
L-15-21S-37E										
NEDU 608	7/9/51	7850	Eunice; Bli-Tu-Dr, N	P&A	17.25	13.375	315	325 sx	GL	Circ
3002506590					11.25	8.625	2805	500 sx	GL	Circ
F-15-21S-37E					7.875	5.5	7850	530 sx	4700	Temp survey
NEDU 544	2/9/14	6950	Eunice; Bli-Tu-Dr, N	O	11	8.625	1269	430 sx	GL	Circ
3002541600					7.875	5.5	6954 MD	1250 sx	197	CBL
E-15-21S-37E										
NEDU 650	11/7/13	6765	Eunice; Bli-Tu-Dr, N	O	11	8.625	1309	465 sx	GL	Circ 96 sx
3002541275					7.875	5.5	6858	1300 sx	276	Log estimate
F-15-21S-37E										

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
NEDU 701	10/10/47	6654	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	224	210 sx	GL	Circ 25 sx
3002509916					11	8.625	2875	800 sx	GL	Circ
L-15-21S-37E					7.375	5.5	6652	600 sx	3250	Estimate
Cities S State 002	6/1/48	6676	Eunice; Bli-Tu-Dr, N	P&A	17.25	13.375	297	300 sx	GL	Circ
30-025-06585					11.25	8.625	2791	500 sx	675	no report
F-15-21S-37E					6.75	5.5	6585	125 sx	5120	no report
NEDU 628	12/30/05	6975	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1198	575 sx	GL	Circ 160 sx
3002537223					7.875	5.5	6889	1800 sx	1202	CBL
E-15-21S-37E										
NEDU 606	12/16/50	8032	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	330	350 sx	GL	Circ
30-025-06587					11	8.625	2803	500 sx	1115	Calculated
F-15-21S-37E					7.875	5.5	8032	1200 sx	GL	Circ

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
ARGO 011	7/14/51	7891	Penrose Skelly; Grayburg	O	17.5	13.375	228	250 sx	GL	Circ
3002506607					11	8.625	2902	1950 sx	GL	Circ
K-15-21S-37E					7.875	5.5	7890	800 sx	3025	CBL
ARGO 010	7/19/51	8015	Hare; San Andres	P&A	17.25	13.375	241	250 sx	GL	Circ 50 sx
3002506606					11	8.625	2907	1700 sx	GL	Circ 287 sx
L-15-21S-37E					7.875	5.5	2660 - 8012	875 sx	2660	TOL
NEDU 624	4/17/00	6860	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1213	460 sx	GL	Circ 82 sx
3002534887					7.875	5.5	6860	1400 sx	GL	Circ 100 sx
C-15-21S-37E										
Harry Leonard NCT E 005	6/22/52	8220	Penrose Skelly; Grayburg	O	17.25	12.75	268	325 sx	GL	Circ
3002506624					11	8.625	2799	1100 sx	2290	Temp survey
H-16-21S-37E					7.875	5.5	7999	131 sx	5392	Temp survey

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
NEDU 610	1/10/51	7798	Eunice; Bli-Tu-Dr, N	I	17.25	13.375	222	250 sx	No report	Circ 35 sx
30-025-06588					11	8.625	2925	2000 sx	No report	Circ
G-15-21S-37E					7.875	5.5	7635	500 sx	No report	No report
NEDU 703	2/29/48	6645	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	195	250 sx	GL	Circ 15 sx
3002509918					11	8.625	2880	1500 sx	GL	Circ
K-15-21S-37E					7.875	5.5	6486	600 sx	2850	Estimated
NEDU 661	2/2/14	6662	Eunice; Bli-Tu-Dr, N	O	11	8.625	1264	440 sx	GL	Circ 134 sx
3002541583					7.875	5.5	6963	1250 sx	GL	Circ 135 sx
C-15-21S-37E										
NEDU 623	8/29/99	6840	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1283	460 sx	GL	circ 48 sx
3002534657					7.875	5.5	6840	1650 sx	GL	circ 102 sx
K-15-21S-37E										

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
State S 005	2/13/51	8148	Penrose Skelly; Grayburg	P&A	17.5	13.375	294	300 sx	GL	Circ 110 sx
3002506612					11	8.625	2974	2000 sx	GL	Circ
D-15-21S-37E					6.75	5.5	8147	500 sx	2570	no report
NEDU 713	9/25/00	6790	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1245	460 sx	GL	Circ 121 sx
3002534888					7.875	5.5	6790	1525 sx	GL	Circ 156 sx
L-15-21S-37E										
State DA 005	3/4/52	8330	Penrose Skelly; Grayburg	O	17.5	13.375	258	200 sx	GL	Circ
3002506617					11	8.625	2820	1500 sx	565	Temp survey
I-16-21S-37E					6.75	5.5	8225	500 sx	3448	Temp survey
WBDU 113	9/15/09	6912	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1342	650 sx	GL	Circ
3002539277					7.875	5.5	6912	1000 sx	GL	Circ
A-16-21S-37E										

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
State S 001	6/25/48	6660	Penrose Skelly; Grayburg	O	17.25	13.375	293	300 sx	GL	Circ 10 sx
3002506586					11	8.625	2797	1200 sx	GL	Calc
D-15-21S-37E					7.875	5.5	6625	400 sx	3100	CBL
WBDU 056	11/24/47	6614	Blinebry Oil and Gas	I	17.5	13.375	301	300 sx	GL	Circ
3002506621					12.25	11	2952	1300 sx	GL	Circ
H-16-21S-37E					8.75	7	6547	700 sx	2715	Temp survey
NEDU 601	4/21/52	8145	Eunice; Bli-Tu-Dr, N	P&A	17.5	13.375	293	300 sx	GL	Circ
3002506614					11	8.625	2990	1700 sx	160	no report
D-15-21S-37E					6.75	5.5	2847 - 8142	350 sx	5380	Temp survey
NEDU 721	9/16/05	6850	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1275	575 sx	GL	Circ 119 sx
3002537243					7.875	5.5	6850	1300 sx	408	CBL
M-15-21S-37E										

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
NEDU 605	8/14/51	7675	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	295	300 sx	GL	Circ
3002506613					11	8.625	2997	2000 sx	GL	Circ
C-15-21S-37E					6.75	5.5	2839 - 7674	350 sx	3840	no report
NEDU 622	8/16/99	6840	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1265	460 sx	GL	Circ 107 sx
30-025-34649					7.875	5.5	6840	1675 sx	650	CBL
C-15-21S-37E										
Argo 6	2/27/51	7991	SWD; San Andres	SWD	17.5	13.375	225	250	GL	Circ
3002506603					11	8.625	3100	2000	GL	Circ
K-15-21S-37					7.625	5.5	7790	500	5070	CBL
State S 002	8/6/48	6662	Eunice; Bli-Tu-Dr, N	P&A	17.5	13.375	294	300 sx	GL	Circ
3002506609					11	8.625	2603	1200 sx	GL	Circ
C-15-21S-37E					7.375	5.5	6630	500 sx	3750	Calc

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
WBDU 078	8/12/47	6644	Eunice; Bli-Tu-Dr, N	O	17.25	13.375	213	200 sx	GL	Circ
3002506619					11	8.625	2807	1550 sx	1350	Temp survey
I-16-21S-37E					7.375	5.5	6644	500 sx	3165	no report
State S 004	11/26/50	7896	Penrose Skelly; Grayburg	O	17.5	13.375	295	300 sx	GL	Circ
3002506611					11	8.625	2999	1700 sx	GL	Circ
C-15-21S-37E					6.75	5.5	7895	500 sx	2990	Temp survey
NEDU 726	10/16/13	6879	Eunice; Bli-Tu-Dr, N	O	11	8.625	1300	469 sx	GL	Circ 112 sx
3002541276					7.875	5.5	6879	1320 sx	GL	Circ 126 sx
N-15-21S-37E										
NEDU 524	4/1/00	6860	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1207	460 sx	GL	Circ 120 sx
3002534886					7.875	5.5	6860	1500 sx	GL	Circ 148 sx
C-15-21S-37E										

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
NEDU 651	11/21/13	6857	Eunice; Bli-Tu-Dr, N	O	11	8.625	1307	460 sx	GL	Circ 116 sx
30-025-41285					7.875	5.5	6859	1265 sx	216	Estimated
J-15-21S-37E										
WBDU 114	12/19/10	6970	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1297	665 sx	GL	Circ 171 sx
3002539963					7.875	5.5	6952	1195 sx	800	CBL
P-16-21S-37E										
NEDU 526	11/27/04	6900	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1278	575 sx	GL	Circ 113 sx
3002536809					7.875	5.5	6900	1100 sx	220	CBL
D-15-21S-37E										
NEDU 714	5/15/01	6780	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1214	460 sx	GL	Circ 40 sx
3002535272					7.875	5.5	6780	1175 sx	GL	Circ 102 sx
N-15-21S-37E										

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
NEDU 611	8/30/48	6641	Eunice; Bli-Tu-Dr, N	I	17	13.375	228	250 sx	GL	Circ 20 sx
30-025-09912					11	8.625	2897	1500 sx	GL	Circ
G-15-21S-37E					7.875	5.5	6546	1200 sx	GL	Circ
WBDU 057	11/22/48	6699	Tubb	O	17.25	13.375	297	300 sx	GL	Circ
3002506623					12.25	9.625	2787	1300 sx	540	Temp survey
A-16-21S-37E					8.75	7	6645	700 sx	2550	Temp survey
NEDU 702	6/3/63	6646	Eunice; Bli-Tu-Dr, N	O	17.5	13.375	316	250 sx	GL	Circ
3002509911					11	8.625	2839	800 sx	GL	Circ
M-15-21S-37E					7.875	5.5	6529	500 sx	3650	Estimated
WBDU 082	4/8/07	6875	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1285	650 sx	GL	Circ
3002538231					7.875	5.5	6875	1250 sx	320	CBL
J-16-21S-37E										

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
NEDU 662	1/26/14	6958	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1263	440 sx	GL	Circ
30-025-41584					7.875	5.5	6958	1350 sx	820	CBL
B-15-21S-37E										
NEDU 707	5/5/52	7670	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	325	250 sx	GL	Circ
30-025-06601					11	8.625	2852	1200 sx	GL	Circ
J-15-21S-37E					7.875	5.5	7665	1155 sx	GL	Circ
NEDU 706	6/7/48	6629	Eunice; Bli-Tu-Dr, N	O	17	13.375	299	250 sx	GL	Circ
30-025-06592					11	8.625	2800	1500 sx	GL	Circ
J-15-21S-37E					8	5.5	6597	750 sx	2400	Estimated
L G Warlick C 006	10/29/50	7847	Hare; Simpson	O	17	13.375	303	300 sx	GL	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

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	HOLE O.D.	CASING O.D.	SET @	CEMENT	TOC	HOW TOC DETERMINED
NEDU 704	5/27/63	6630	Eunice; Bli-Tu-Dr, N	I	17.5	13.375	210	250 sx	GL	Circ 15 sx
3002509917					11	8.625	2883	1500 sx	GL	Circ 460 sx
N-15-21S-37E					7.875	5.5	6560	1000 sx	2500	Calc
NEDU 558	2/23/14	6950	Eunice; Bli-Tu-Dr, N	O	11	8.625	1275	430 sx	GL	Circ 93 sx
3002541598					7.875	5.5	6950	1250 sx	675	CBL
C-15-21S-37E										
Harry Leonard NCT E 006	1/1/76	6720	Penrose Skelly; Grayburg	O	11	8.625	1605	550 sx	GL	Circ
3002525198					7.875	5.5	6720	1050 sx	47	Tagged
A-16-21S-37E										
WBDU 098	6/15/09	6880	Eunice; Bli-Tu-Dr, N	O	12.25	8.625	1313	450 sx	GL	Circ
3002539119					7.875	5.5	6880	1050 sx	GL	Circ
B-16-21S-37E										

EXHIBIT F

TUBB PENETRATORS WITHIN 1/2 MILE OF NEDU 604

WELL	SPUD	TVD	CURRENT POOL	STATUS	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	GL	Circ 60 sx
3002506608					11	8.625	2882	1900 sx	GL	Circ 300 sx
M-15-21S-37E					7.875	5.5	8033	900 sx	3480	CBL
NEDU 723	*5/29/51*	*8179*	*Eunice; Bli-Tu-Dr, N*	*O*	*17.25*	*13.375*	*225*	*250 sx*	*GL*	*Circ*
3002506605					*11*	*8.625*	*2917*	*1700 sx*	*GL*	*Circ*
M-15-21S-37E					*7.875*	*5.5*	*8000*	*850 sx*	*2701*	*CBL*
ARGO 008	*7/31/01*	*8002*	*Paddock*	*O*	*17.25*	*13.375*	*226*	*300 sx*	*GL*	*Circ*
3002506604			*Penrose Skelly; Grayburg*		*11*	*8.625*	*2915*	*1800 sx*	*GL*	*Circ*
N-15-21S-37E					*7.875*	*5.5*	*8002*	*1220 sx*	*50*	*CBL*

Apache

WELL BORE INFO.

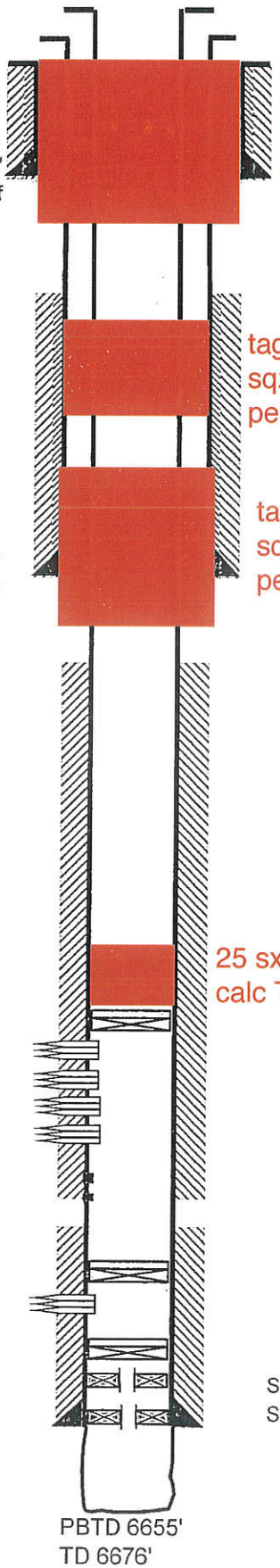
LEASE NAME	Cities "S" State
WELL #	2 (NEDU 607S)
API #	30-025-06585
COUNTY	Lea

EXHIBIT G

F-15-21s-37e

spud 6-1-48

P&A 9-9-11



circ to GL
280 sx
perf @ 347'

13 3/8" csg @ 297'
w/300 sx cmt CIRC to surf

tag @ 1402'
sqz 50 sx
perf @ 1563'

tag @ 2220'
sqz 135 sx
perf @ 2841'

8 5/8" csg @ 2791'
w/500 sx cal TOC @ 675'

TOC @ 3050'

25 sx
calc TOC @ 3731

CIBP @ 3970' w/35' cmt

San Andres perfs @ 4061'-4900

Csg lk @ 5030' sqzd w/200 sx cmt

TOC @ 5120'
CIBP @ 5990' w/35' cmt
Tubb perfs @ 6044'-6235'

CIBP @ 6500' w/35' cmt

Stuck Pkr @ 6530'
Stuck Pkr @ 6586'

5 1/2" csg @ 6586'
w/125 sx

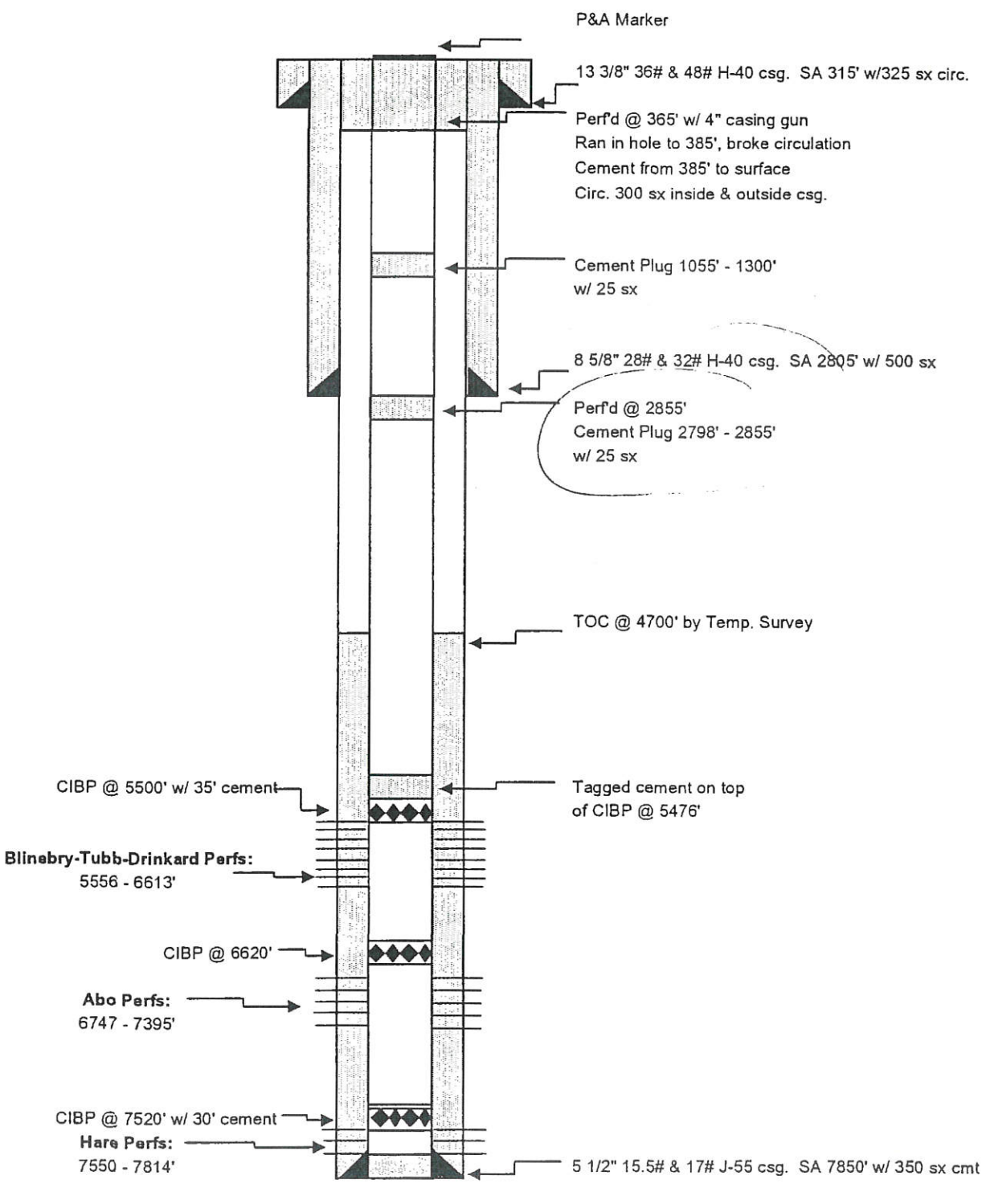
OH 6586'-6676'

PBTD 6655'
TD 6676'

EXHIBIT G

Northeast Drinkard Unit #608
Eunice N. Blinebry-Tubb-Drinkard (22900)
1980' FNL & 1880' FWL
Unit F, Sec 15, T-21S, R-37E
Lea County, New Mexico
30-025-06590

spud 7-9-51
P&A 10-5-01



KAC

10/29/2002

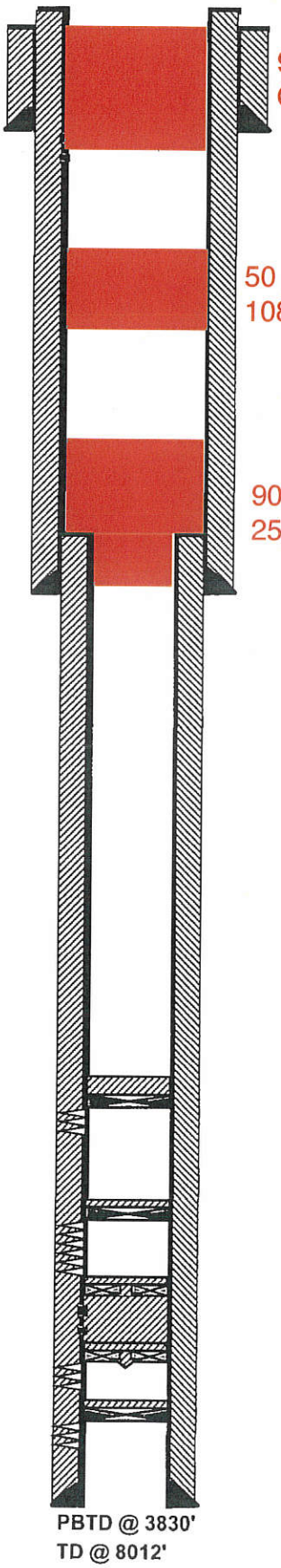
Apache

WELL BORE INFO.

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

EXHIBIT G

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



99 sx
GL - 375'

50 sx
1088' - 1250'

90 sx
2522' - 2962'

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

CURRENT WELL DATA SHEET

30-025-06609 STATE S #002 [30014]

Field: Penrose Skelly Grayburg	**Cost Center:** UCU494100	**Spud Date:** 9/6/1948
Location: 660' FNL & 1980' FEL	**Refno:** FA7713	**Compl Date:** 11/8/1948
T-R-S: C-15-21S-37E	**Lease Type:** State	**Current Status:** TA
County: Lea	**Well Bore:** 427875	P&A 5-8-12
State: New Mexico		

KB:
0 DF: 3456'
GL: 3447'

Tubing - No Tubing

Formation Tops	
294	
Yates	2687'
San Andres	3965
Glorieta	5172
Tubb	6152
2603	

GL
320 sx
perf @ 1250'

STATUS HISTORY

11/9/1948 - 4/28/1953	PR	Drinkard Completion Active
5/4/1953	PR	Re-completion as dual to Blinebry and Tubb
4/8/1964		Blinebry zone disconnected and acreage dedicated to other wells
5/1/64 - 11/1/1987	PR	Tubb completion only
9/11/1993		Re-Complete to Penrose Skelly Grayburg
9/1993 - 12/2000	PR	Grayburg completion Active
12/21/2001		Perf San Andres - Dry zone
1/10/2001	TA	

Surface Csg.
Size: 13 3/8" 36#
Set @: 294' w/300 sx cmt
Hole Size: 17 1/2"
3732' **Circ:** Yes **TOC:** Surface
TOC by: Circulation

2516' tag
25 sx
perf @ 2787'

Intermediate Csg.
Size: 8 5/8" 32#
Set @: 2603' w/1200 sx cmt
3840' **Hole Size:** 11"
Circ: Yes **TOC:** Surface
TOC by: Circulation

TOC 3755'
CIBP @ 3994' with 35' of cement on top

3765' tag cmt
& CIBP

3840-3944 Grayburg Sqzd 1/2/2001

TOC 3959'
CIBP @ 3994' with 35' of cement on top

4020 - 4030 San Andres

Production Csg
5550' **Size:** 5 1/2" 15.5#
Set @: 6630' w/500 sx cmt
Hole Size: 7 7/8"
Circ: **TOC:** 3750'
TOC by: Calculation

TOC 5515'
CIBP @ 5550' with 35' of cement on top

5620-5700 Blinebry open

5795'
Tbg cut @ 5795'
6180-6280 Tubb Sqzd 11/18/1993

PBTD: 6436'

CIBP @ 6450' with 14' of cement on top

TD: 6662'

6683-6926 Drinkard do not see that these perfs were ever squeezed

Prepared by: T K Morris
Date: 8/10/2011

12-21-00. MIRU. NDWH NDBOP TIH W/BIT & CSG SCRAPER ON WS STOP BIT @ 1240
12-22-00 TIH TO 3850'. TIH W/PKR & SN ON TBG PSA 3770'. REL PKR SWINGING @ 1860'
12-28-00 TIH W/CMT RET & SN PMJ TBG/ SET RET @ 3740'. PUMP 25 BBLS THRU RET TEST TBG TO 4000#-OK LOAD & TEST BACKSIDE TO 500#-OK. MIX & PUMP 150 SX CL C TAIL IN W/150 SX CL C NEAT. REV 14 SX TO PIT
12-29 00 TIH W/BIT & DC'S ON WS STOP BIT @ 3445' RU REV UNIT
12-30-00: TIH W/TBG TAG CMT @ 3732'. DRILL CMT TO 3740'. DRILL RET @ 3740' DRILL CMT TO 3762'. PULL BIT TO 3730'
1-02-01. LOWER TOOLS & TAG @ 3762' DRILL CMT FR 3762-3980. FELL THRU. TEST TO 300# LOST 50# LOWER TOOLS & TAG @ 5470' TEST CSG TO 320# PULL BIT TO 5399'.
1-03-01: PERF SAN ANDRES FORMATION FR 4020-30'.TIH W/PKR & SN ON TBG SET PKR @ 3961'.
1-04-01.REL PKR & SET @ 3992'. LOWER TO 4054' SPOT 1 BBL ACID ACR PERFS 4020-30 PULL UP & RESET PKR @ 3992'. ACIDIZE W/2000 GALS 15% NEFE HCL. PUMP 50 BBLS 2% KCL WTR DN CSG OPEN BY PASS ON PKR & REV INTO TBG TEST CSG TO 300#. RU SWAB FL @ SURF.
1-05-01: FL @ 2600' SWAB DRY REL TBG & PKR TIH W/PKR & SN ON TBG. PSA 3992'. TEST CSG TO 350#.
1-08-01: ACIDIZE SAN ANDRES PERFS W/2000 GALS 15% NEFE HCL. REL & RESET PKR @ 3998 FL @ SURF. END FL- DRY.
1-09-01: FL @ 1500' SWAB DRY REL PKR. LO TBG & PKR. TIH W/CIBP & SET @ 3994'. TA SAN ANDRES TIH W/BAILER & DUMP 35' CMT ON TOP OF CIBP. TOP OF CMT @ 3959' TIH W/CIBP #2 & SET ABOVE GRAYBURG. SQZ PERFS @ 3790' TIH W/BAILER & DUMP 35' CMT ON TOP OF CIBP. TOP OF CMT @ 3755'.
1-10-01: TIH W/PROD TBG. TAG CMT @ 3768'. CIRC 90 BBLS PKR FLUID TEST & CHART CSG & CIBP TO 330# FOR NMOCD. NDBOP. NUWH. RIG DOWN. WELL IS NOW TEMPORARILY ABANDONED (CHARTS ATTACHED)

1-01-01 RAN NEW CHART TO 500# FOR 30 MINUTES AS REQUIRED BY GARY WITH THE NMOCD (CHART ATTACHED)

State S 5

Current Wellbore Diagram

EXHIBIT G

Updated:	10/05/17	By:	RW
Lease:	State S		
Field:	Penrose Skelly Grayburg		
Surf. Loc.:	660' N & 990' W		
Bot. Loc.:			
County:	Lea	St.:	NM
Status:			

Well #:	5
API:	30-025-06612
St. Lse:	
Section:	15
Unit Ltr.:	D
TSHP/Rng:	21-S 37-E
Unit Ltr.:	
TSHP/Rng:	
CHEVNO:	
Directions:	

spud 2-13-51
P&A 5-8-17

Surface Casing

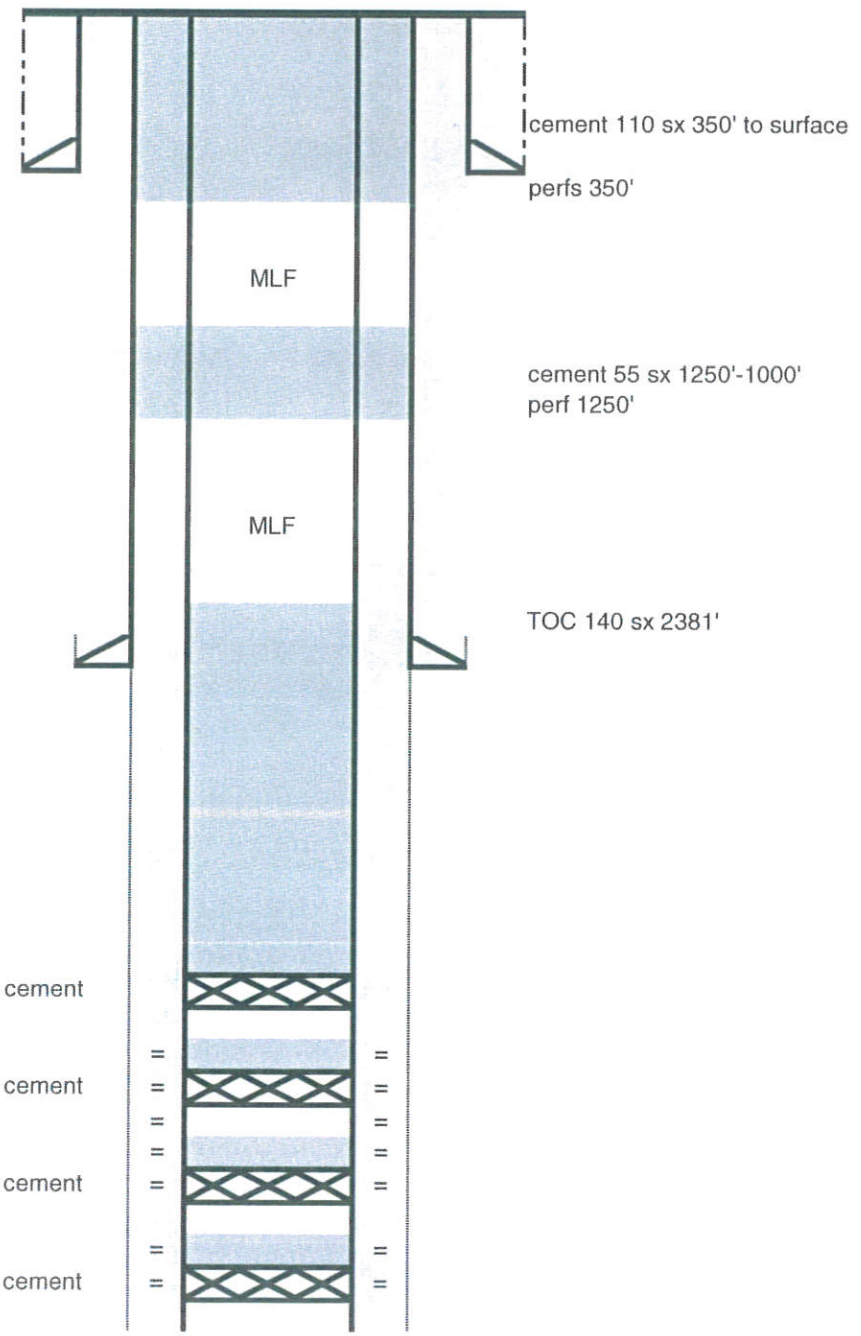
Size:	13 3/8"
Wt., Grd.:	48#
Depth:	294'
Sxs Cmt:	300'
Circulate:	yes
TOC:	surface
Hole Size:	17 1/4"

Intermediate Casing

Size:	8 5/8"
Wt., Grd.:	24#
Depth:	2974'
Sxs Cmt:	2000
Circulate:	yes
TOC:	surface
Hole Size:	11"

Production Casing

Size:	5 1/2"
Wt., Grd.:	17#
Depth:	8147'
Sxs Cmt:	500'
Circulate:	
TOC:	2570'
Hole Size:	6 3/4"



Apache

LEASE NAME	Northeast Drinkard Unit
WELL #	601
API #	30-025-06614
COUNTY	Lea

EXHIBIT G

'D-15-21s-37e
spud 4-19-52
P&A 10-13-11

TOC behind 8 5/8" @ 160'
13 3/8" @ 293' w/ 300 sx circ to surf

5 1/2" csg patch @ 2847 w/ 127 bbls cmt to surf

8 5/8" 24/32# @ 2990' w/2000 sx TOC 160'

Csg leaks @ 4320'-4350' sqzd w/ 250 sx

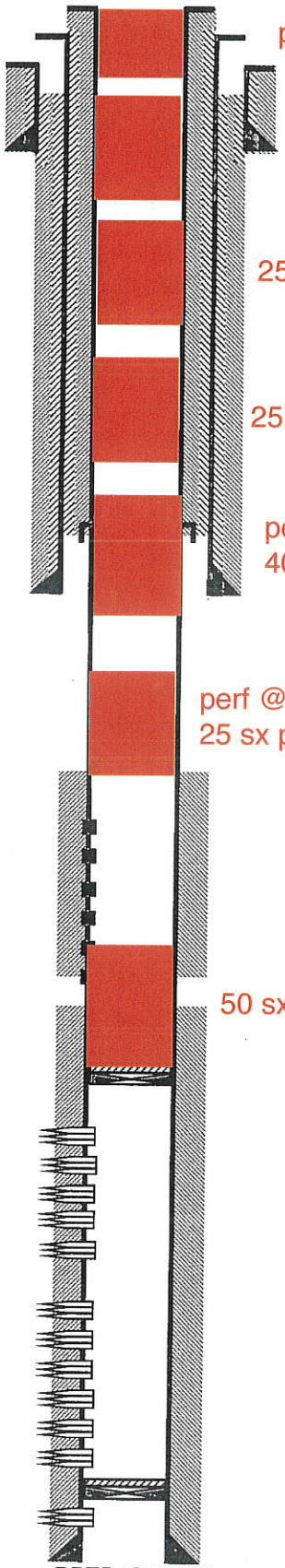
Cgs leaks @ 4943'-4974' sqzd w/ 350 sx

Csg leaks @ 5360' sqzd w/ 325 sx

TOC @ 5380' by TS

CIBP @ 5640' w/ 20' cmt
Blinbry Perfs
B-II @ 5679'-5716'
B-III @ 5746'-5821'
B-IV @ 5860'-5930'
B-V @ 5955'-5984'
Tubbs T-I perfs @ 6008'-6087'
Drinkard Perfs
D-I @ 6454'-6498'
D-II @ 6553'-6576'
D-III @ 6581'-6625'
D-IV @ 6640'-6645'
D-IV-V @ 6658'-6686'
D-V 6700'-6704'
CIBP @ 7900' w/2 sx cmt
Ellen perfs @ 7988'-8956'

5 1/2" 15.5/17# @ 8142' w/ 350 sx TOC @ 5380' TS



perf @ 100' circ 50 sx to GL

25 sx plug 200' - 400'

25 sx plug ?? (no tag) - 1306'

25 sx plug ?? (no tag) - 2246'

perf @ 3040' - unable to sqz tbg @ 3090'
40 sx plug 3040' - 2740'

perf @ 4032' - unable to sqz tbg @ 4082'
25 sx plug 3885' - 4032'

50 sx plug 5113' - 5620'

PBTD @ 5620'
TD @ 8145'

Well: Northeast Drinkard Unit # 603

Field: Eunice N. Blinebry-Tubb-Drinkard

Location: 3390' FNL & 760' FWL
Unit E, Sec. 15, T21S, R37E
Lea County, New Mexico

API #: 30-025-09913

EXHIBIT G

spud 2-18-51
P&A 11-22-93

Elevation: 3451' (GR)

Install P&A Marker

CICR @ 750'
Perf 5-1/2" casing @ 800'
Cmt to Surface inside & outside casing

17-1/2" Hole
13-3/8" 36# H-40 CSA 312'
Cement w / 325 sx
Circulated to Surface

CICR @ 2802' (63 sx)
Perf 5-1/2" casing @ 2875'
Cmt sqz 5-1/2" x 8-5/8" annulus (400 sx)
TOC @ 850' (TS)

11" Hole
8-5/8" 24# J-55 CSA 2818'
Cement w / 500 sx
Circulated to Surface

Blinebry Perfs:
5715-5974 (59 Holes)

Tubb Perfs:
5993-6080 (23 Holes)

Drinkard Perfs:
6466-6682 (58 Holes)

Abo Perfs:
6723-7231 (26 Holes)
Cmt sqz w/ 350 sx

CIBP @ 7281' (2 sx)

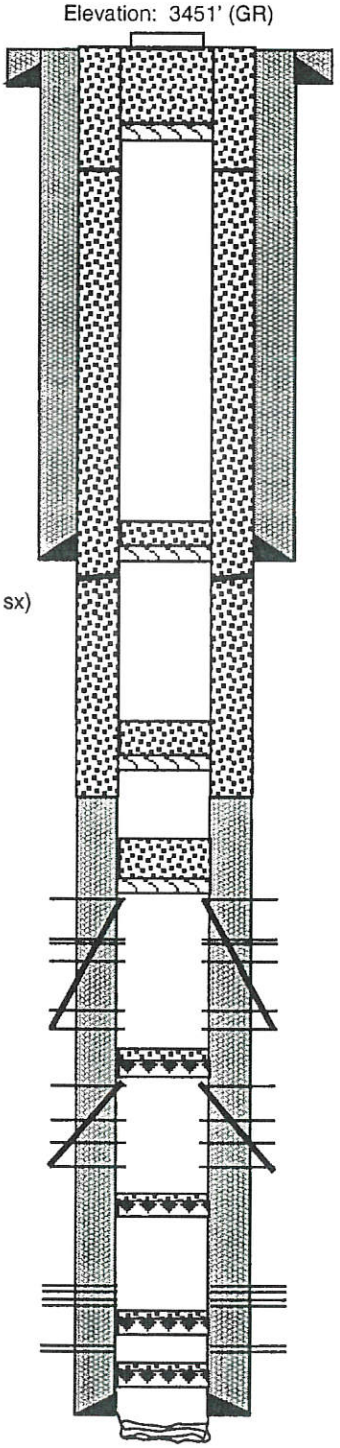
Hare Perfs:
7742-7938 (596 Holes)

CIBP @ 7950' (2 sx)

Hare Perfs:
7974-90 (108 Holes)

CIBP @ 8010' (1 sx)

Ellenburger Open Hole:
8030-8067



TD @ 8182'

CICR @ 4841' w/ 126' cmt
Cmt sqz leak 4934-65 w / 200 sx

CICR @ 5651' w/ 185' cmt
Cmt sqz perfs 5715-6682 w / 250 sx

CIBP @ 6696' w/ 35' cmt

7-7/8" Hole
5-1/2" 15.5/17# J-55 CSA 8030'
Cement w / 500 sx
TOC @ 5115' (Temp Survey)

EXHIBIT H

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:	1099.0	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.

UNICHEM

A Division of BJ Services Company

EXHIBIT H

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
Hydrogen Sulfide	(H2S):	408.00
Oxygen	(O2):	

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

EXHIBIT I

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*	404	8015		
CP 00554		CP	LE		2	2	16	21S	37E	672744	3595610*	712	80	70	10
CP 01141 POD3		CP	LE				15	21S	37E	673520	3594272	882	40		
CP 01141 POD2		CP	LE				15	21S	37E	673543	3594250	910	40		
CP 01141 POD4		CP	LE				15	21S	37E	673556	3594239	925	45		
CP 01575 POD1		CP	LE	1	2	1	22	21S	37E	673544	3594204	954	40	35	5
CP 01575 POD2		CP	LE	2	2	1	22	21S	37E	673615	3594181	999	35	35	0
CP 00731 POD1		CP	LE		2	1	22	21S	37E	673577	3594015*	1145	8130		
CP 01794 POD2		CP	LE	3	3	1	14	21S	37E	674594	3595204	1340	198		
CP 01794 POD5		CP	LE	3	3	1	14	21S	37E	674606	3595176	1349	30	22	8
CP 01794 POD3		CP	LE	3	3	1	14	21S	37E	674623	3595163	1366	34		
CP 01794 POD6		CP	LE	3	3	1	14	21S	37E	674624	3595194	1369	104		
CP 01794 POD1		CP	LE	3	3	1	14	21S	37E	674646	3595143	1389	34	18	16
CP 01574 POD1		CP	LE	2	4	4	15	21S	37E	674559	3594598	1400	68	57	11
CP 01794 POD4		CP	LE	3	3	1	14	21S	37E	674662	3595126	1404	28	19	9
CP 01185 POD1		CP	LE		1	3	14	21S	37E	674598	3594689	1407	70		
CP 01110 POD1		CP	LE		1	3	14	21S	37E	674586	3594648	1407	70		
CP 01110 POD2		CP	LE		1	3	14	21S	37E	674586	3594648	1407	70		
CP 01110 POD3		CP	LE		1	3	14	21S	37E	674586	3594648	1407	70		
CP 01110 POD4		CP	LE		1	3	14	21S	37E	674586	3594648	1407	20		
CP 01110 POD5		CP	LE		1	3	14	21S	37E	674586	3594648	1407	20		
CP 01185 POD3		CP	LE		1	3	14	21S	37E	674592	3594620	1424	70		
CP 01185 POD2		CP	LE		1	3	14	21S	37E	674623	3594674	1435	70		
CP 01185 POD4		CP	LE		1	3	14	21S	37E	674633	3594610	1465	70		
CP 01574 POD2		CP	LE	1	3	3	14	21S	37E	674666	3594578	1507	68	57	11
CP 00732 POD1		CP	LE		4	1	22	21S	37E	673584	3593613*	1537	6633		
CP 00235 POD3		CP	LE	1	1	1	23	21S	37E	674681	3594137*	1727	90	61	29
CP 00235 POD7		CP	LE	3	1	1	23	21S	37E	674681	3593937*	1848	85	65	20

1610 m = 1 mile

EXHIBIT I

CP 00235 POD6	CP	LE	2	1	1	23	21S	37E	674881	3594137*	1895	85	65	20
CP 00235 POD4	CP	LE	1	3	1	23	21S	37E	674688	3593735*	1988	100	80	20
CP 00235 POD2	CP	LE	1	2	1	23	21S	37E	675083	3594144*	2068	96	65	31
CP 00235 POD1	CP	LE	2	2	1	23	21S	37E	675283	3594144*	2246	81		
CP 00235 POD5	CP	LE	1	4	1	23	21S	37E	675090	3593742*	2290	90	70	20
CP 00733 POD1	CP	LE		3	3	22	21S	37E	673196	3592801*	2314	7864		
CP 00240 POD1	CP	LE	4	2	1	23	21S	37E	675283	3593944*	2340			
CP 00241 POD1	CP	LE	4	2	1	23	21S	37E	675283	3593944*	2340	79		
CP 00252 POD1	CP	LE	4	2	4	22	21S	37E	674493	3593125*	2342	106	78	28
CP 00286 POD1	CP	LE	2	1	2	10	21S	37E	674019	3597338*	2349	70		
CP 00251 POD1	CP	LE	2	3	4	22	21S	37E	674099	3592915*	2355	103		
CP 00235 POD9	CP	LE	3	4	1	23	21S	37E	675090	3593542*	2415	94	58	36
CP 00239 POD1	CP	LE	1	1	2	23	21S	37E	675485	3594152*	2427	89	61	28
CP 00235 POD8	CP	LE	3	1	2	23	21S	37E	675485	3593952*	2513	94	58	36
CP 00236 POD1	CP	LE	3	1	2	23	21S	37E	675485	3593952*	2513	83		
CP 00881	CP	LE		4	4	22	21S	37E	674402	3592824*	2561	95	53	42
CP 00235 POD10	CP	LE	1	3	2	23	21S	37E	675492	3593749*	2619	92	60	32
CP 00235 POD11	CP	LE	1	3	2	23	21S	37E	675492	3593749*	2619	97	60	37
CP 00237 POD1	CP	LE	1	3	2	23	21S	37E	675492	3593749*	2619	84		
CP 01636 POD3	CP	LE	2	2	1	27	21S	37E	673782	3592501	2665	96		
CP 01741 POD1	CP	LE	1	3	4	03	21S	37E	673895	3597759	2719	45		
CP 00238 POD1	CP	LE	3	3	2	23	21S	37E	675492	3593549*	2729	81		
CP 00017 POD1	CP	LE	2	1	2	27	21S	37E	674106	3592513*	2737	101		
CP 00562	CP	LE	1	2	2	23	21S	37E	675887	3594159*	2798	136	65	71
CP 00700	CP	LE			2	23	21S	37E	675794	3593851*	2834	75	65	10
CP 00711	CP	LE	4	2	2	28	21S	37E	672900	3592291*	2846	100	65	35
CP 00285 POD1	CP	LE	3	1	2	27	21S	37E	673906	3592313*	2876	80		
CP 00552	CP	LE		2	4	04	21S	37E	672700	3598022*	2959	90	75	15
CP 00553	CP	LE		2	4	04	21S	37E	672700	3598022*	2959	90	75	15
CP 00294 POD1	CP	LE	1	3	1	27	21S	37E	673110	3592096*	3022			
CP 00293 POD1	CP	LE	2	4	1	27	21S	37E	673711	3592104*	3045	80		
CP 00736	CP	LE		3	1	27	21S	37E	673211	3591997*	3118	120	76	44
CP 00249 POD1	CP	LE	2	3	2	27	21S	37E	674113	3592111*	3123	102		
CP 00250 POD1	CP	LE	2	3	2	27	21S	37E	674113	3592111*	3123	101		
CP 01636 POD2	CP	LE	2	3	2	28	21S	37E	672430	3592065	3159	108		
CP 00134 POD1	CP	LE	1	1	1	24	21S	37E	676289	3594166*	3177	85		

EXHIBIT I

Average Depth to Water:	**58 feet**
Minimum Depth:	**18 feet**
Maximum Depth:	**80 feet**

Record Count: 64

UTMNAD83 Radius Search (in meters):

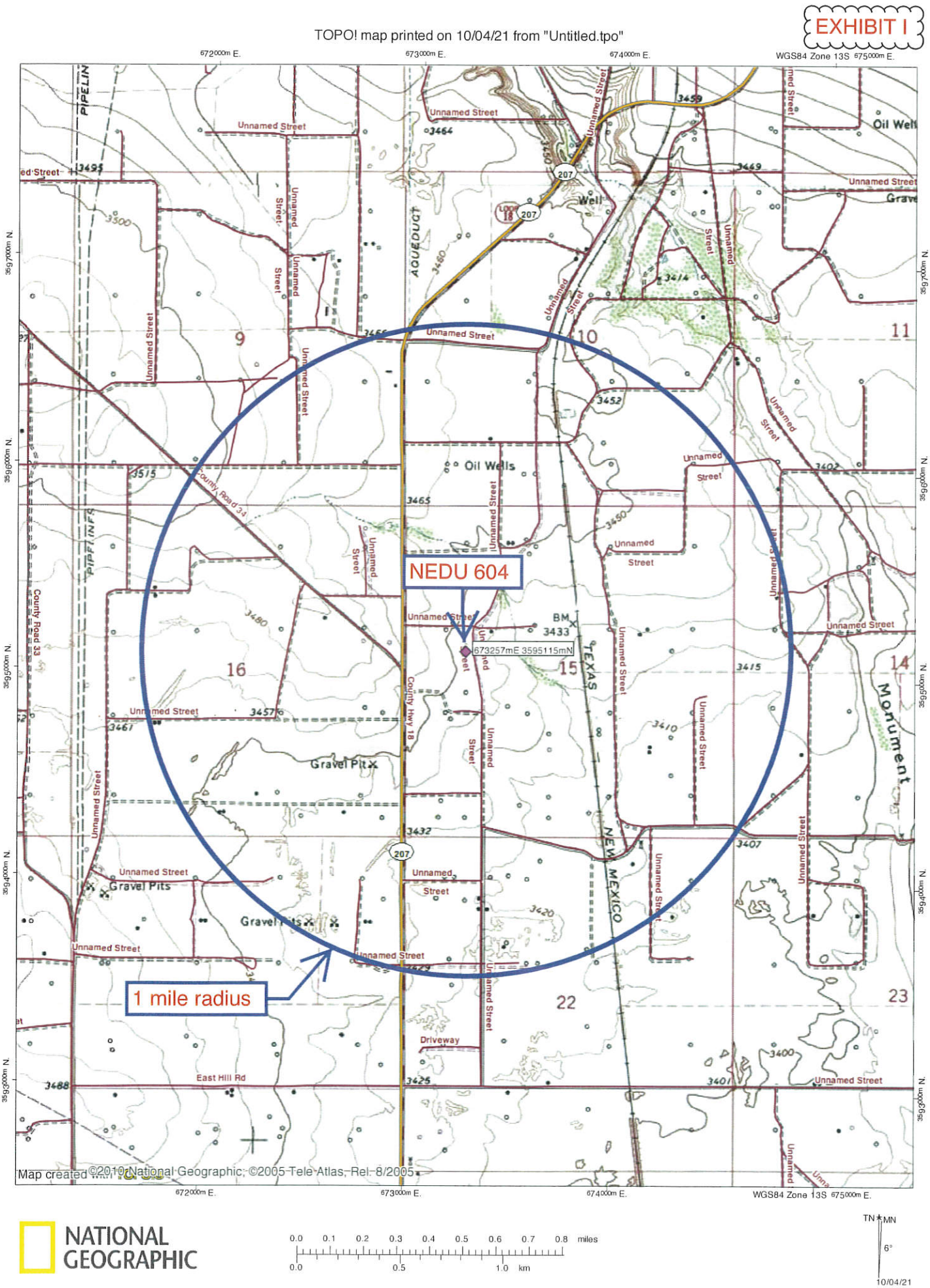
Easting (X): 673257 **Northing (Y):** 3595115 **Radius:** 3220

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

10/4/21 2:10 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

EXHIBIT I



NATIONAL GEOGRAPHIC

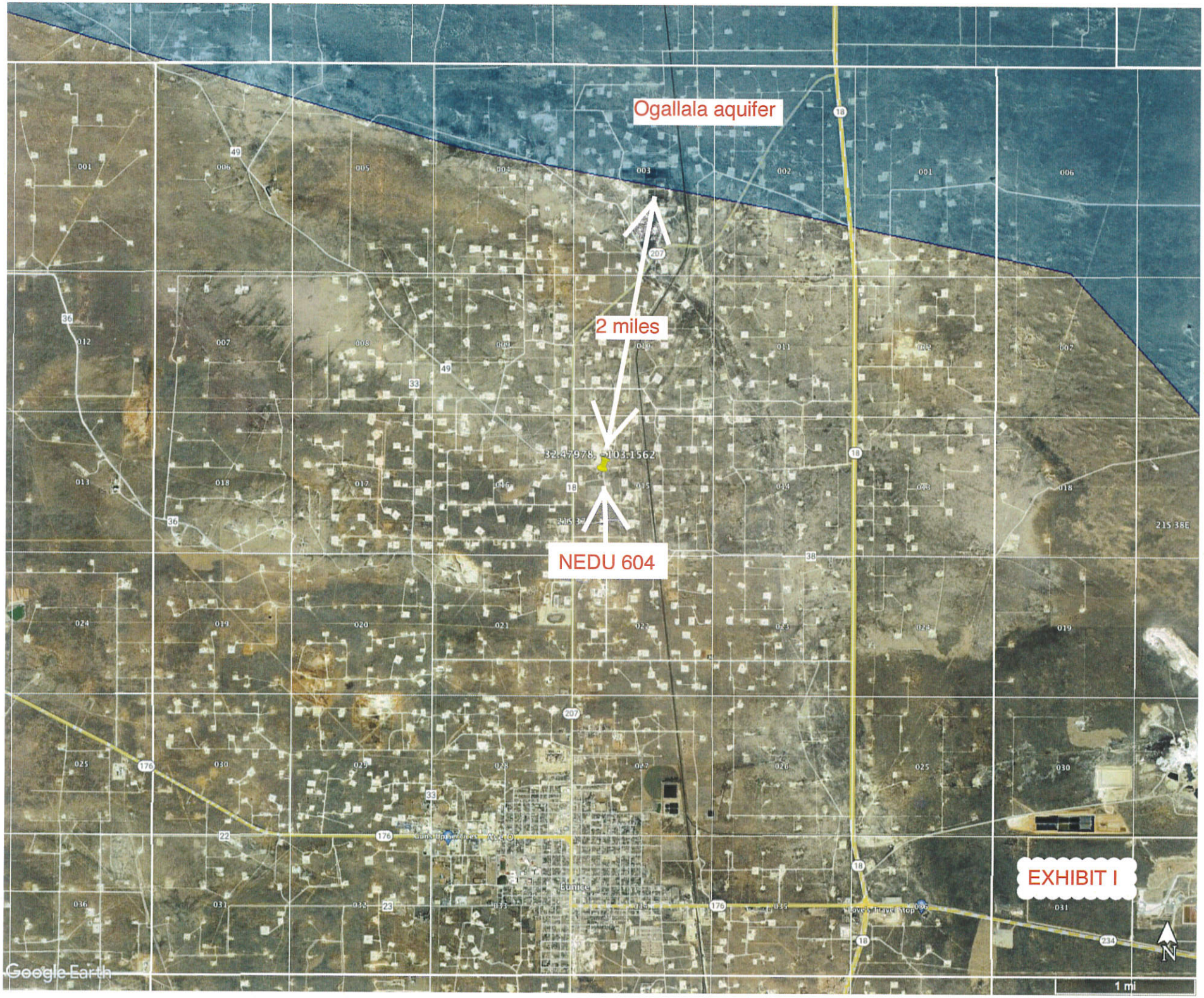

Ogallala aquifer
2 miles
32.47978, -103.1562
NEDU 604
EXHIBIT I
Google Earth
1 mi
N

EXHIBIT J

Analytical Re

Lab Order **2110489**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: **10/21/2021**

CLIENT: Permits West
Project: Sec 9 and Sec 21
Lab ID: 2110489-001 **Matrix:** AQUEOUS

Client Sample ID: Sec 9 Pond
Collection Date: 10/6/2021 12:40:00 PM
Received Date: 10/8/2021 8:03:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664B						Analyst: **dms**	
N-Hexane Extractable Material	ND	10.4		mg/L	1	10/11/2021 5:10:00 PM	63187
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	300	10	*	mg/L	20	10/9/2021 3:47:10 AM	A81916
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	932	20.0	*	mg/L	1	10/15/2021 10:14:00 AM	63264

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West
Project: Sec 9 and Sec 21
Lab ID: 2110489-002 **Matrix:** AQUEOUS

Client Sample ID: Sec 21
Collection Date: 10/6/2021 1:10:00 PM
Received Date: 10/8/2021 8:03:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664B						Analyst: **dms**	
N-Hexane Extractable Material	ND	9.45		mg/L	1	10/11/2021 5:10:00 PM	63187
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	75	10		mg/L	20	10/9/2021 4:11:59 AM	A81916
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	495	20.0		mg/L	1	10/15/2021 10:14:00 AM	63264

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

EXHIBIT J

WO#: 2110489

21-Oct-21

Client: Permits West

Project: Sec 9 and Sec 21

Sample ID: **MB-63187**	SampType: **MBLK**	TestCode: **EPA Method 1664B**
Client ID: **PBW**	Batch ID: **63187**	RunNo: **82024**
Prep Date: **10/11/2021**	Analysis Date: **10/11/2021**	SeqNo: **2904273** 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-63187**	SampType: **LCS**	TestCode: **EPA Method 1664B**
Client ID: **LCSW**	Batch ID: **63187**	RunNo: **82024**
Prep Date: **10/11/2021**	Analysis Date: **10/11/2021**	SeqNo: **2904274** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	36.6	10.0	40.00	0	91.5	78	114			

Sample ID: **LCSD-63187**	SampType: **LCSD**	TestCode: **EPA Method 1664B**
Client ID: **LCSS02**	Batch ID: **63187**	RunNo: **82024**
Prep Date: **10/11/2021**	Analysis Date: **10/11/2021**	SeqNo: **2904275** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Hexane Extractable Material	35.6	10.0	40.00	0	89.0	78	114	2.77	20	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

EXHIBIT J

WO#: 2110489

21-Oct-21

Client: Permits West

Project: Sec 9 and Sec 21

Sample ID: **MB**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **A81916**	RunNo: **81916**
Prep Date:	Analysis Date: **10/8/2021**	SeqNo: **2899061** 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: **A81916**	RunNo: **81916**
Prep Date:	Analysis Date: **10/8/2021**	SeqNo: **2899062** 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	98.3	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

EXHIBIT J

WO#: 2110489

21-Oct-21

Client: Permits West

Project: Sec 9 and Sec 21

Sample ID: **MB-63264**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **63264**	RunNo: **82074**
Prep Date: **10/13/2021**	Analysis Date: **10/15/2021**	SeqNo: **2907245** 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-63264**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **63264**	RunNo: **82074**
Prep Date: **10/13/2021**	Analysis Date: **10/15/2021**	SeqNo: **2907246** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1000	20.0	1000	0	100	80	120			

Sample ID: **2110489-001BDUP**	SampType: **DUP**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **Sec 9 Pond**	Batch ID: **63264**	RunNo: **82074**
Prep Date: **10/13/2021**	Analysis Date: **10/15/2021**	SeqNo: **2907256** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	918	20.0						1.51	10	*

Qualifiers:

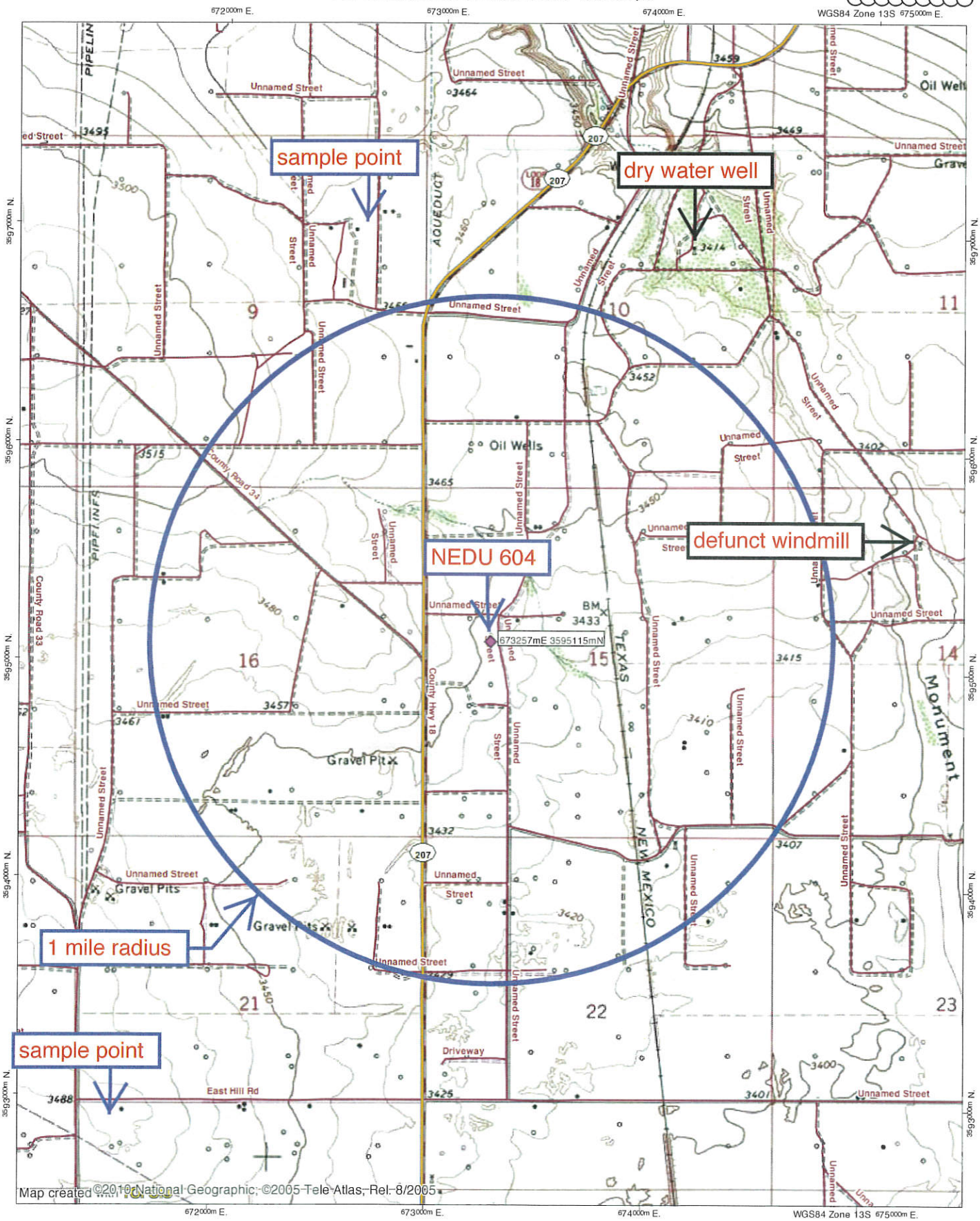
*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit


empty meter box
Water well in SENE Section 10.
EXHIBIT J


EXHIBIT J
missing vanes
no rod
Windmill in NENW Section 14.

EXHIBIT J

TOPO! map printed on 10/04/21 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°
10/04/21

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

EXHIBIT K

NM Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Re: Geology Statement
Apache Corporation
Northeast Drinkard Unit #604
Section 15, T. 21S, R. 37E
Lea County, New Mexico

To whom it may concern:

Publicly available geologic and engineering data related to the proposed well have been thoroughly reviewed, and no evidence for open faults or any other hydrologic connection between the proposed Tubb/Drinkard injection zone and any underground sources of drinking water has been found. Please see the attached seismic risk assessment for additional information.

Sincerely,

Cory Walk

Cory Walk
Geologist

EXHIBIT K

Seismic Risk Assessment

Apache Corporation

Northeast Drinkard Unit #604

Section 15, Township 21 South, Range 37 East

Lea County, New Mexico

Cory Walk, M.S.

Cory Walk

Geologist

Permits West Inc.

October 28, 2021

EXHIBIT K

GENERAL INFORMATION

Northeast Drinkard Unit #604 is located in the NW ¼, section 15, T21S, R37E, about 2 miles north of Eunice, NM in the Central Basin Platform of the greater Permian Basin. Apache Corporation proposes to convert this existing oil well to a water injection well. The proposed injection zone is within the Tubb and Drinkard members of the Yeso Formation through a cased hole from 6,420'-6,650' below ground surface. The Tubb and Drinkard are primarily carbonate reservoirs with the Tubb also containing some dolomitic sandstone intervals. This report assesses any potential concerns relating to induced seismicity along deep penetrating Precambrian faults or the connection between the injection zone and known underground potable water sources.

SEISMIC RISK ASSESSMENT

Historical Seismicity

Searching the USGS earthquake catalog resulted in no (0) earthquakes above a magnitude 2.5 within 6 miles (9.7 km) of the proposed injection site since 1970 (Fig 1). According to this dataset, the nearest historical earthquake occurred June 2, 2001 about 10.1 miles (~16.2 km) south and had a magnitude of 3.3.

Basement Faults and Subsurface Conditions

A structure contour map (Fig. 1) of the Precambrian basement shows the Northeast Drinkard Unit #604 is approximately 2.4 miles from the nearest basement-penetrating fault inferred by Ewing et al (1990) and about 62 miles from the nearest surface fault.

Snee and Zoback (2018) state, "In the western part of Eddy County, New Mexico, S_{Hmax} is ~north–south (consistent with the state of stress in the Rio Grande Rift; Zoback and Zoback, 1980) but rotates to ~east-northeast–west-southwest in southern Lea County, New Mexico, and the northernmost parts of Culberson and Reeves counties, Texas." Around the Northeast Drinkard Unit #604 site, Snee and Zoback indicate a **S_{Hmax} direction of N075°E and an A_ϕ of 0.81, indicating a normal/strike-slip faulting stress regime**.

Induced seismicity is a growing concern of deep injection wells. Snee and Zoback (2018) show that due to its orientation, the nearest Precambrian fault has a low probability of slipping (Fig. 2). Also, the proposed injection zone is much shallower in the Tubb and Drinkard members of the Yeso Formation and therefore would not affect the deep Precambrian faults. The vertical (approx. 1500') and horizontal (2.4 miles) separation between the proposed SWD injection zone and any deep Precambrian faults is large enough to infer that there is no immediate concern or potential of induced seismicity as a result from this injection well.

GROUNDWATER SOURCES

Three principal aquifers are used for potable groundwater in southern Lea County; these geologic units include the Triassic Santa Rosa formation, Tertiary Ogallala formation, and Quaternary alluvium. Nicholson and Clebsch (1961) state, "Potable ground water is not available below the Permian and Triassic unconformity but, because this boundary is not easily defined, the top of the Rustler anhydrite formation is

EXHIBIT K

regarded as the effective lower limit of 'potable' ground water." Around the Northeast Drinkard Unit #604 well, the top of a thick anhydrite unit interpreted to represent the Rustler Formation lies at a depth of ~1570 feet bgs.

STRATIGRAPHY

A thick permeability barrier (Rustler Anhydrite and Salado Fm; 1500+ ft thick) exists above the targeted Tubb/Drinkard injection zone. Well data indicates ~4,850 ft of rock separating the top of the injection zone from the previously stated lower limit of potable water at the top of the Rustler anhydrite formation.

CONCLUDING STATEMENT

All available geologic and engineering data evaluated around the Northeast Drinkard Unit #604 well show no potential structural or stratigraphic connection between the Tubb/Drinkard injection zone and any subsurface potable water sources. The shallow injection zone, spatial location and orientation of nearby faults also removes any major concern of inducing seismic activity.

EXHIBIT K

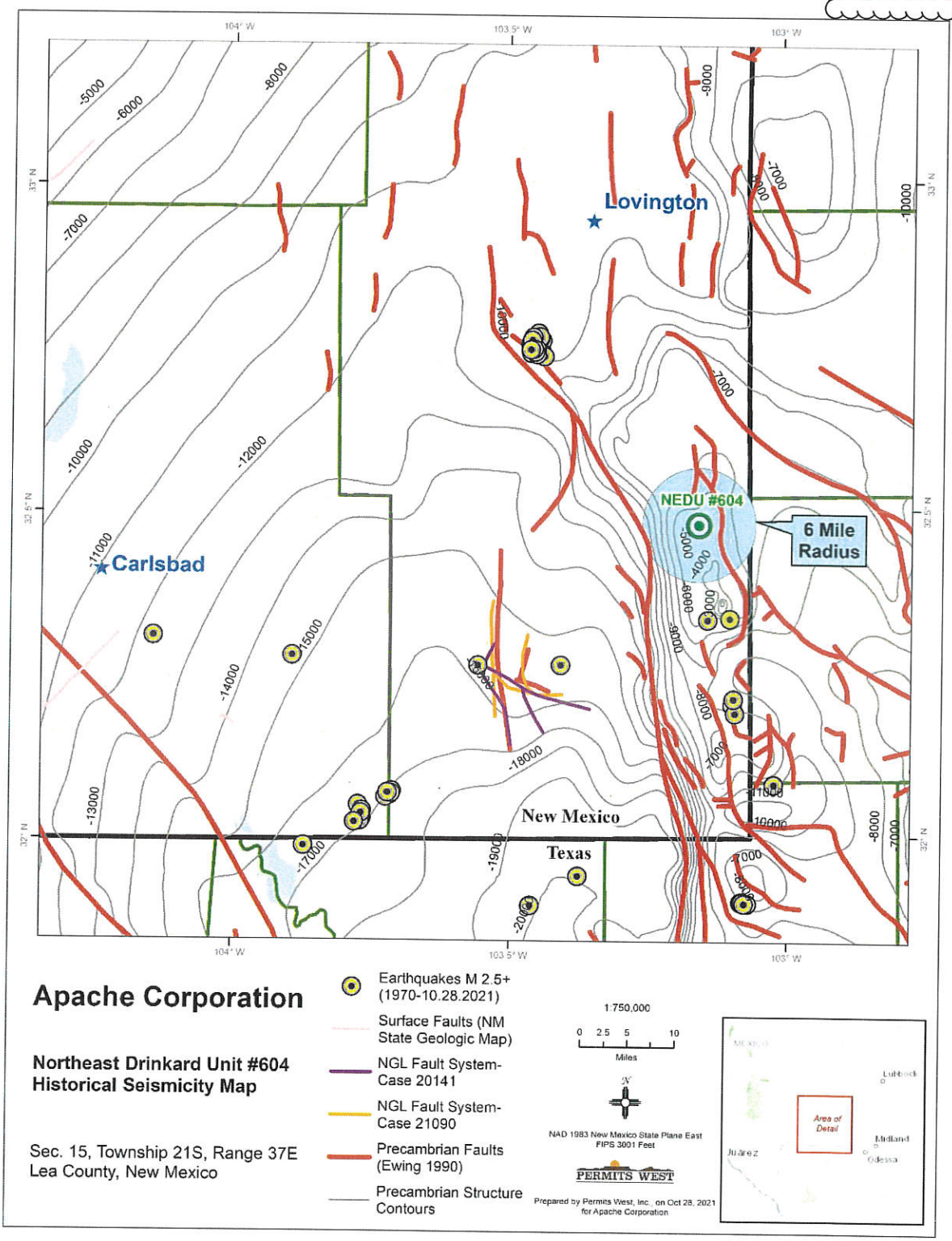


Figure 1. Structural contour map of the Precambrian basement in feet below sea level. Red lines represent the locations of Precambrian basement-penetrating faults (Ewing et al., 1990). The Northeast Drinkard Unit #604 well lies ~2.4 miles west of the closest deeply penetrating fault, ~62 miles from the nearest surface fault and ~10.1 miles from the closest historic earthquake.

EXHIBIT K

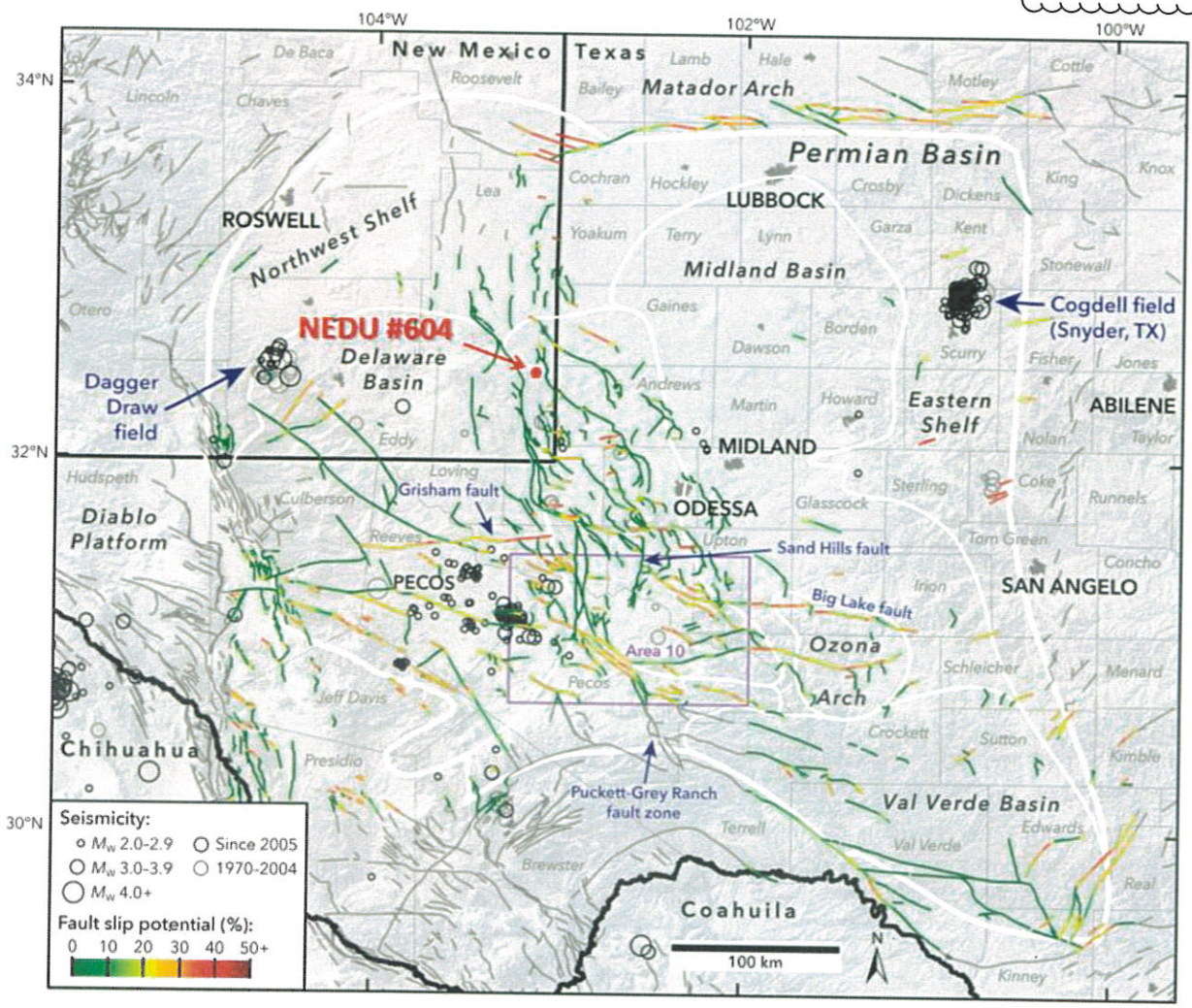


Figure 2. Modified from Snee and Zoback (2018). The nearest deep Precambrian fault lies ~2.4 miles east of the proposed SWD well and has a low probability (0%) of slip. Also, the proposed injection zone is much shallower in the Tubb and Drinkard and therefore removes any major concern of inducing seismicity on any known fault.

EXHIBIT K

References Cited

Ewing, T. E., 1990, The tectonic map of Texas: Austin, Bureau of Economic Geology, The University of Texas at Austin.

Geologic Map of New Mexico, New Mexico Bureau of Geology and Mineral Resources, 2003, Scale 1:500,000.

Nicholson, A., Jr., and Clebsch, A., Jr., 1961, Geology and ground-water conditions in southern Lea County, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Ground-Water Report 6, 123 pp., 2 plates.

Snee, J.-E.L., Zoback, M.D., 2018, State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity: Leading Edge, v. 37, p. 127–134.

Affidavit of Publication

EXHIBIT L

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
September 23, 2021
and ending with the issue dated
September 23, 2021.

Daniel Russell
Publisher

Sworn and subscribed to before me this
23rd day of September 2021.

Gussie Black
Business Manager

My commission expires
January 29, 2023
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-23

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

LEGALS

LEGAL NOTICE
September 23, 2021

Apache Corporation is applying to convert the Northeast Drinkard Unit 604 oil well to a water injection well. The well is at 2310 FNL & 990 FWL, Sec. 15, T. 21 S., R. 37 E., Lea County, NM. This is 3 miles north of Eunice, NM. Water will be injected at a maximum pressure of 1,284 psi into the Tubb and Drinkard formations from 6,420' to 6,650'. Maximum injection rate will be 1,000 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 or ocd.engineer@state.nm.us within 15 days. NMOCD Engineering Bureau phone is 505 476-3441. 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.
#36887

02108485 00258762

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

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

EXHIBIT L

October 29, 2021

BLM
620 E. Greene
Carlsbad NM 88220

TYPICAL NOTICE

Apache Corporation is planning (see attached application) to convert its Northeast Drinkard Unit 604 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 604 (NMSLO lease) TD: 8193'
Proposed Injection Zones: Tubb & Drinkard from 6420' to 6650'
Where: 2310' FNL & 990' FWL Sec. 15, T. 21 S., R. 37 E., Lea County, NM
Approximate Location: 3 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 NMOCD Enginering Bureau address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Phone number is (505) 476-3441. E-mail address is: ocd.engineer@state.nm.us

Please call me if you have any questions.

Sincerely,

B. Wood

Brian Wood

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Houston TX 77251

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P. O. Box 3040
Midland TX 79702

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Sent To: Empire New Mexico LLC
2200 S. Utica Place, #150
Tulsa OK 74114

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City, State, ZIP+4®:

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Sent To: Key Energy Services, LLC
P. O. Box 99
Eunice NM 88231

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Sent To: John Hendrix Corp.
110 N. Marienfeld, #400
Midland TX 79701

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P. O. Box 4294
Houston TX 77210

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Santa Fe NM 87504

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6 Desta Dr., #6000
Midland TX 79705

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Street and Apt. No., or PO: 1515 W Calle Sur St., #174

City, State, ZIP+4®: Hobbs NM 88240

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Street and Apt. No., or PO: P. O. Box 2769

City, State, ZIP+4®: Hobbs NM 88241

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Sent To: XTO Energy Inc.

Street and Apt. No., or PO: 6401 Holiday Hill Rd, Bldg. 5

City, State, ZIP+4®: Midland TX 79707

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Street and Apt. No., or PO: P. O. Box 53570

City, State, ZIP+4®: Midland TX 79710

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Sent To: XTO Holdings, LLC

Street and Apt. No., or PO: 22777 Springwoods Village Pkwy

City, State, ZIP+4®: Spring TX 77389

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