

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**APPLICATION OF RAZ OIL AND GAS L.L.C.
TO APPROVE SALT WATER DISPOSAL
WELL IN LEA COUNTY, NEW MEXICO.**

CASE NO. _____

APPLICATION

Raz Oil and Gas L.L.C. ("Raz"), OGRID No. 370507, through its undersigned attorneys, hereby submits this application to the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-12, Rule No. 19.15.26, and Rule 19.15.4.8 for an order authorizing Raz to plug back the YO State SWD #1 well to the Delaware Mountain Group and authorizing injection from the YO State SWD #1 well into the Delaware Mountain Group. In support of this application, Raz states as follows:

(1) Raz currently operates the YO State SWD #1 (API 30-025-38162) pursuant to Division Order SWD-1594, at a surface location 660' from the North line and 840' from the West line, Lot D, Section 15, Township 21 South, Range 35 East, NMPM, Lea County, New Mexico. Raz currently injects produced water into the Devonian formation.

(2) Raz seeks authority to plug back the YO State SWD #1 well to the Delaware Mountain Group and authority to inject produced water into the Delaware Mountain Group at a depth of approximately 5,540 feet to 6,930 feet.

(3) Raz requests that the Division approve a maximum daily injection rate for the well of 20,000 bbls per day.

(4) Raz requests approval of a maximum injection pressure of 1,108 psi for the well.

(5) A proposed C-108 for the subject well is attached hereto as Attachment A. Raz previously submitted a C-108 for administrative approval in October 2023. Raz reviewed the C-108 in preparation for submitting this application and made one revision to the ownership map—otherwise the C-108 as submitted in October 2023 required no changes and is still accurate.

(6) Notice of the previously submitted administrative application was given as shown in the attached C-108. Counsel for Raz will provide notice of this hearing application as required by the Division's regulations.

(7) The granting of this application will prevent waste and will protect correlative rights.

WHEREFORE, Raz requests that this application be set for hearing before an Examiner of the Oil Conservation Division on January 9, 2025; and that after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS
& SISK, P.A.

By: Deana M. Bennett

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Attorneys for Applicant

CASE NO. _____: Application of Raz Oil and Gas L.L.C. for approval of a salt water disposal well in Lea County, New Mexico. Applicant seeks an order authorizing applicant to plug back the YO State SWD #1 well to the Delaware Mountain Group and authorizing applicant to inject produced water into the Delaware Mountain Group at a depth of approximate 5,540 feet to 6,930 feet. Applicant currently operates the YO State SWD #1 (API 30-025-38162), at a surface location 660' from the North line and 840' from the West line, Lot D, Section 15, Township 21 South, Range 35 East, NMPM, Lea County, New Mexico. Applicant further requests that the Division approve a maximum daily injection rate for the well of 20,000 bbls per day. Said area is located approximately 12.24 miles northwest of Eunice, New Mexico.

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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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: Raz Oil and Gas L.L.C. **OGRID Number:** 370507
Well Name: YO State SWD #001 **API:** 30-025-38162
Pool: SWD; DELAWARE **Pool Code:** 96100

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

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**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☒ Notification and/or concurrent approval by SLOE. ☐ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**

☐ Notice Complete
☐ Application Content Complete

- 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.

Joshua Ticknor

Print or Type Name

Josh Ticknor

Signature

12/10/2024

Date

(580) 916-2126

Phone Number

jticknor@all-llc.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: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? X Yes _____ No
- II. OPERATOR: Raz Oil and Gas L.L.C.
ADDRESS: P.O. Box 1180, Eunice, NM 88321
CONTACT PARTY: Joshua Ticknor PHONE: (580) 916-2126
- 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 X No
If yes, give the Division order number authorizing the project: Injection authorized under Order SWD-1594
- 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.
- 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: Joshua Ticknor TITLE: Consultant / Project Manager
SIGNATURE: Josh Ticknor DATE: 12/10/2024
E-MAIL ADDRESS: jticknor@all-llc.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: File Electronically Via OCD Permitting

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.

Application for Authorization to Inject**Well Name:** YO State SWD #1**API:** 30-025-38162**III – Well Data** (*The Wellbore Diagram is included as Attachment 1*)**A.****(1) General Well Information:**

Operator: Raz Oil and Gas L.L.C. (OGRID No. 370507)

Lease Name & Well Number: YO State SWD #1

Location Footage Calls: 660 FNL & 840 FWL

Legal Location: Lot D, S15 T21S R35E

Ground Elevation: 3,587'

Proposed Injection Interval: 5,540' – 6,930'

County: Lea

(2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface Casing	17-1/2"	13-3/8"	48 lb/ft	850'	750	Surface	Circulation
Intermediate Casing	12-1/2"	9-5/8"	40 lb/ft	5,420'	1,900	Surface	Circulation
Production Casing	8-3/4"	7"	26 lb/ft	12,536'	1,605	Surface	CBL
Liner	6-1/8"	5"	15 lb/ft	12,273' – 13,962'	105	12,662'	CBL

DV Tools set on 7" casing at: 4,166', 5,335', and 9,797'

(3) Tubing Information:

4.5" (11.6 lb/ft) ICP L80 or N80 injection tubing with setting depth of 5,520'.

(4) Packer Information: Baker Hughes Hornet or equivalent packer set at 5,520'.**B.****(1) Injection Formation Name:** Delaware**Pool Name:** SWD; Delaware**Pool Code:** 96100**(2) Injection Interval:** Perforated injection between 5,540' – 6,930'**(3) Drilling Purpose:** Plug back for saltwater disposal in Delaware Mountain Group.

(4) Other Perforated Intervals: Perforations from 13,518' – 13,718' and open hole from 13,962' – 14,347' are currently being utilized to inject into the Devonian Formation. These Perforations will be properly plugged and abandoned during the plug back of the YO State SWD #1 into a Delaware Mountain Group injection well.

(5) Overlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Yates (3,680')

Underlying Oil and Gas Zones: Below are the approximate formation tops for known oil and gas producing zones in the area.

- Bone Spring (7,578')
- Wolfcamp (10,156')
- Morrow (11,669')

Application for Authorization to Inject**Well Name:** YO State SWD #1**API:** 30-025-38162**V – Well and Lease Maps**

The following maps and documents are included in **Attachment 2**:

- 2-mile Oil & Gas Well Map
- 1/2-Mile Well Detail List
- Penetrating Wellbore Diagram (Plugged Wells)
- 2-Mile Lease Map
- 2-Mile Mineral Ownership Map
- 2-Mile Surface Ownership Map
- Potash Lease Map

VI – AOR Well List

A list of the wells within the 1/2-mile AOR is included in **Attachment 2**.

There is one (1) well within the 1/2-mile AOR which penetrates the injection zone. This well has been properly cased, cemented, and plugged to isolate the injection zone. A wellbore diagram, casing information, and plugging details for this well is also included in **Attachment 2**.

VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 20,000 bpd
Proposed Average Injection Rate: 13,000 bpd
- (2) A closed-loop system will be used.
- (3) **Proposed Maximum Injection Pressure:** 1,108 psi (surface)
Proposed Average Injection Pressure: approximately 720 psi (surface)
- (4) **Source Water Analysis:** It is expected that the injectate will consist of produced water from production wells completed in the Yates, Bone Spring, and Morrow formations. Analysis of water from these formations is included as **Attachment 3**.
- (5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the Delaware Mountain Group which is a non-productive zone known to be compatible with formation water from the Yates, Bone Spring, and Morrow formations. Water analyses from the Delaware formation in the area are included as **Attachment 4**.

VIII – Geologic Description

The proposed injection interval includes the Delaware Mountain Group from 5,540 to 6,930 feet. This formation consists of fine-grained Permian age sandstones with interbedded siltstones. Several thick intervals of porous and permeable sandstones capable of taking water are present within the Delaware Mountain Group in the area.

The base of the USDW is at a depth of approximately 850 feet. Water well depth in the area is approximately 150 feet below the ground surface.

Application for Authorization to Inject

Well Name: YO State SWD #1

API: 30-025-38162

IX – Proposed Stimulation Program

A small cleanup acid job may be used to treat the new perforations in the Delaware Mountain Group. However, no other formation stimulation is currently planned.

X – Logging and Test Data

Logs will be submitted to the Division upon completion of the well.

XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, one (1) water well is located within 1-mile of the proposed SWD location. This water well was sampled on June 7, 2015.

A water well map, details of the water well within 1-mile, and the associated water analyses are included in **Attachment 5**.

XII – No Hydrologic Connection Statement

No faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed No Hydrologic Connection Statement is included as **Attachment 6**.

XIII – Proof of Notice

A Public Notice was filed with the Hobbs News-Sun newspaper and an affidavit is included in **Attachment 7**.

A copy of the application was mailed to the OCD district office, landowner, and all identified affected parties within 1/2-mile of the proposed SWD location. A list of the recipients, as well as delivery confirmations, are included in **Attachment 7**.

Attachments

Attachment 1:

- C-102
- As-Built Wellbore Diagram
- Proposed Recompletion Wellbore Diagram
- Packer Diagram

Attachment 2: Area of Review Information:

- 2-Mile Oil & Gas Well Map
- 1/2-Mile Well Detail List
- Penetrating Wellbore Diagram (Plugged Wells)
- 2-Mile Lease Map
- 2-Mile Mineral Ownership Map
- 2-Mile Surface Ownership Map
- Potash Lease Map

Attachment 3: Source Water Analyses

Attachment 4: Injection Formation Water Analyses

Attachment 5: Water Well Map and Well Data

- Water Well Map
- Well Data

Attachment 6: No Hydrologic Connection Statement

Attachment 7: Public Notice Affidavit and Notice of Application Confirmations

Attachment 1

- C-102
- As-Built Wellbore Diagram
- Proposed Recompletion Wellbore Diagram
- Packer Diagram

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

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

HOBBS OCD
Department
Su
DEC 16 2015

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

☒ AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-38162		² Pool Code 97996	³ Pool Name SWD; Cherry Canyon - Brushy Canyon
⁴ Property Code 315024	⁵ Property Name YO State SWD		⁶ Well Number 001
⁷ OGRID No. 370507	⁸ Operator Name Raz Oil and Gas, LLC		⁹ Elevation 3587

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	15	21S	35E		660	N	840	W	Lea

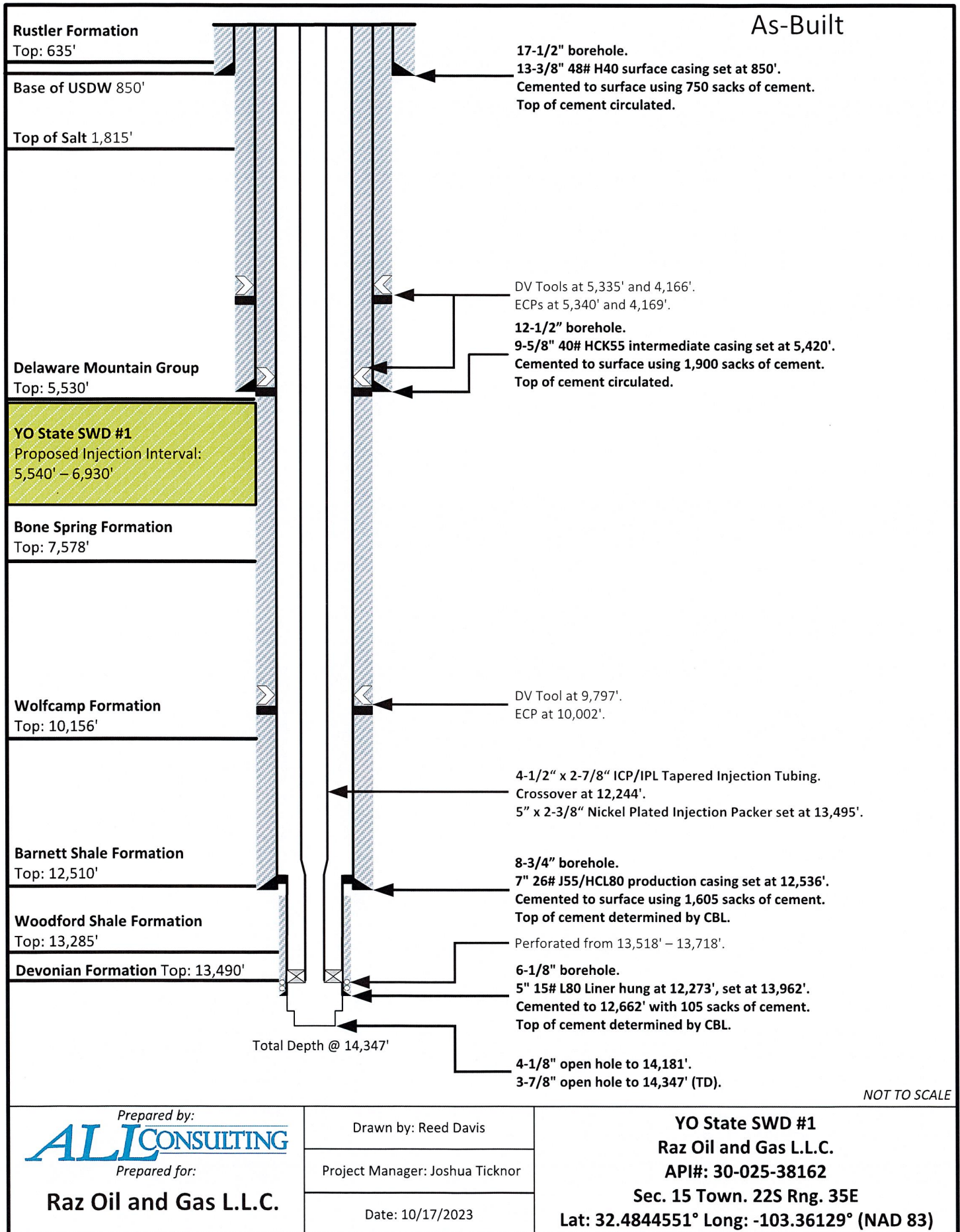
¹¹ Bottom Hole Location If Different From Surface

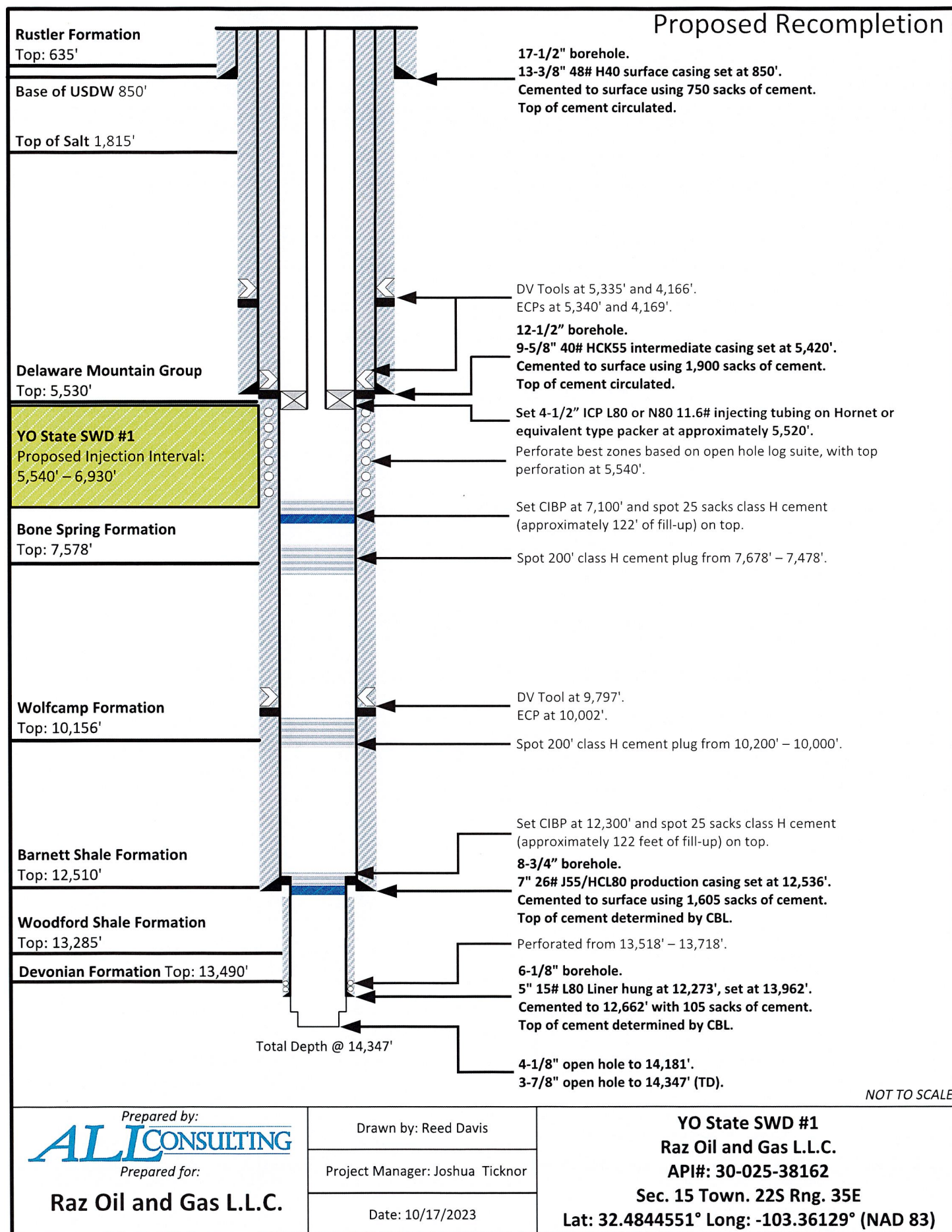
U.L. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

			17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <u>DJ Holcomb</u> <u>12/14/15</u> Signature Date <u>Danny J. Holcomb, Agent for Raz Oil and Gas LLC</u> Printed Name <u>danny@zpwllc.net</u> E-mail Address
	See original survey plat signed 11/10/2006 Lat: 32.4844551 Long: -103.36129 NAD83 Per NMOCD Well File		
			18 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> _____ Date of Survey _____ Signature and Seal of Professional Surveyor
			_____ Certificate Number





Retrievable Packer Systems

HORNET Packer

Product Family No. H64682

HORNET EL Packer

Product Family No. H64683

APPLICATION

The mechanically set HORNET™ packer offers ease of operation with quarter-turn right to set and release. Converting it for wireline-setting applications is simple and inexpensive. The HORNET packer provides for landing in compression, tension, or neutral positions. Every component from the jay track, to the internal bypass, to the packing-element system and the upper slip assembly has been developed to ensure the HORNET's setting and releasing reliability.

The HORNET EL packer is run and set on electric line using an E-4™ (Product Family No. H43702) with a slow-set power charge or a J™ setting tool (Product Family No. H41371) and a special wireline adapter kit. An L-10™ type on/off seal nipple is run on top of the packer to connect the tubing to the packer and to house a blanking plug when the packer is used as a temporary bridge plug.

Advantages

Upper Slip Assembly:

- Thoroughly tested across API minimum to maximum casing ID tolerances for each specified casing weight, for setting and releasing reliability
- Slip-wicker configuration providing bidirectional-load support with solid upper cone to support highest tensile loads
- Staged-release action eliminates high-overpull requirement
- Minimal set-down weight required to anchor slips

Internal Bypass Seal:

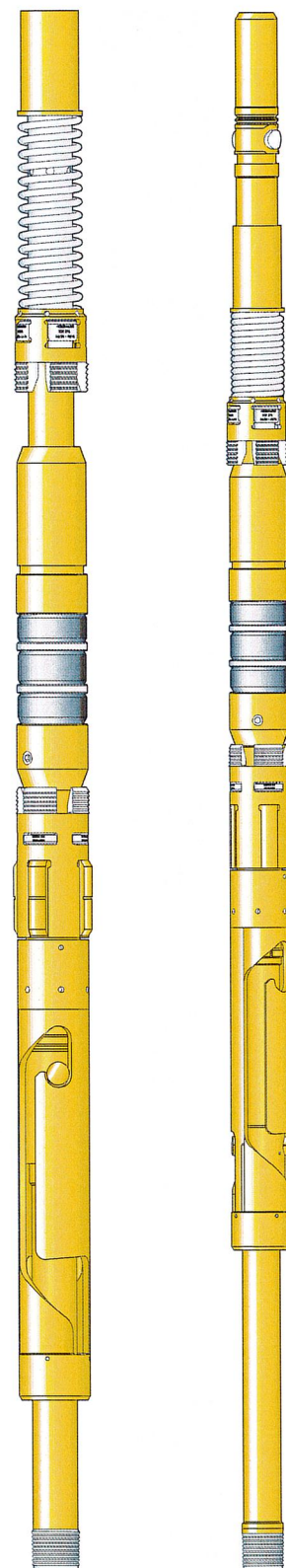
- Durable bypass seal design provides sealing after unloading, under differential pressures
- No O-ring sealing system

Packing Element System:

- Fully tested to combined ratings at the API's maximum ID tolerance
- Patented enhancements to control overboost
- High-performance, three-piece element system

Lower Slip and Jay Assembly:

- Slips and drag blocks tested to maximum API tolerance ID for positive set and ease of release
- One-quarter-turn right setting and releasing action
- Packoff of packing elements with applied tension or compression
- Spacing in jay ensures opening of internal bypass, before slip releasing action begins—important to both ease of release and safety
- Automatically returns to running position



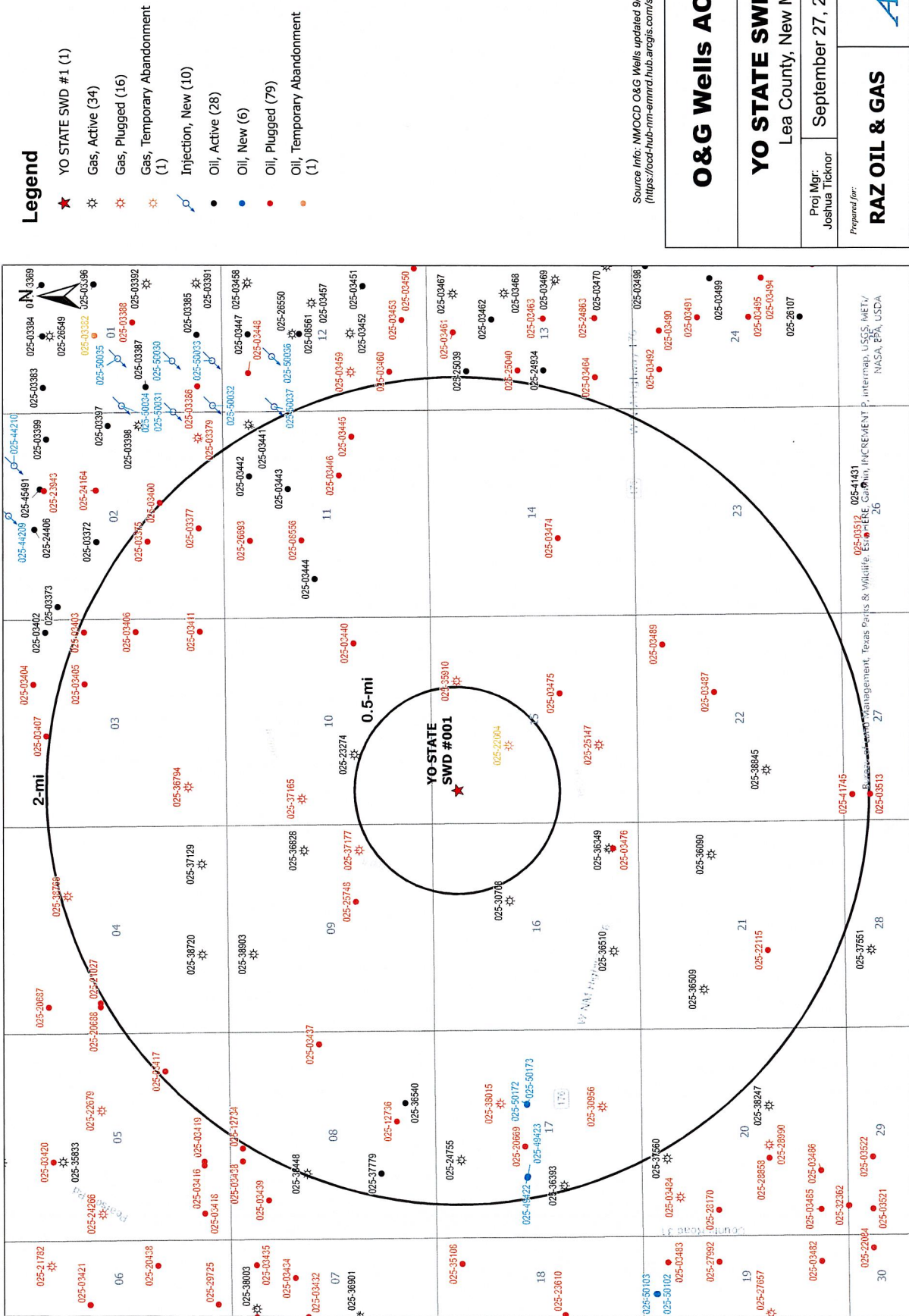
HORNET Packer
Product Family
No. H64682

HORNET EL Packer
Product Family
No. H64683

Attachment 2

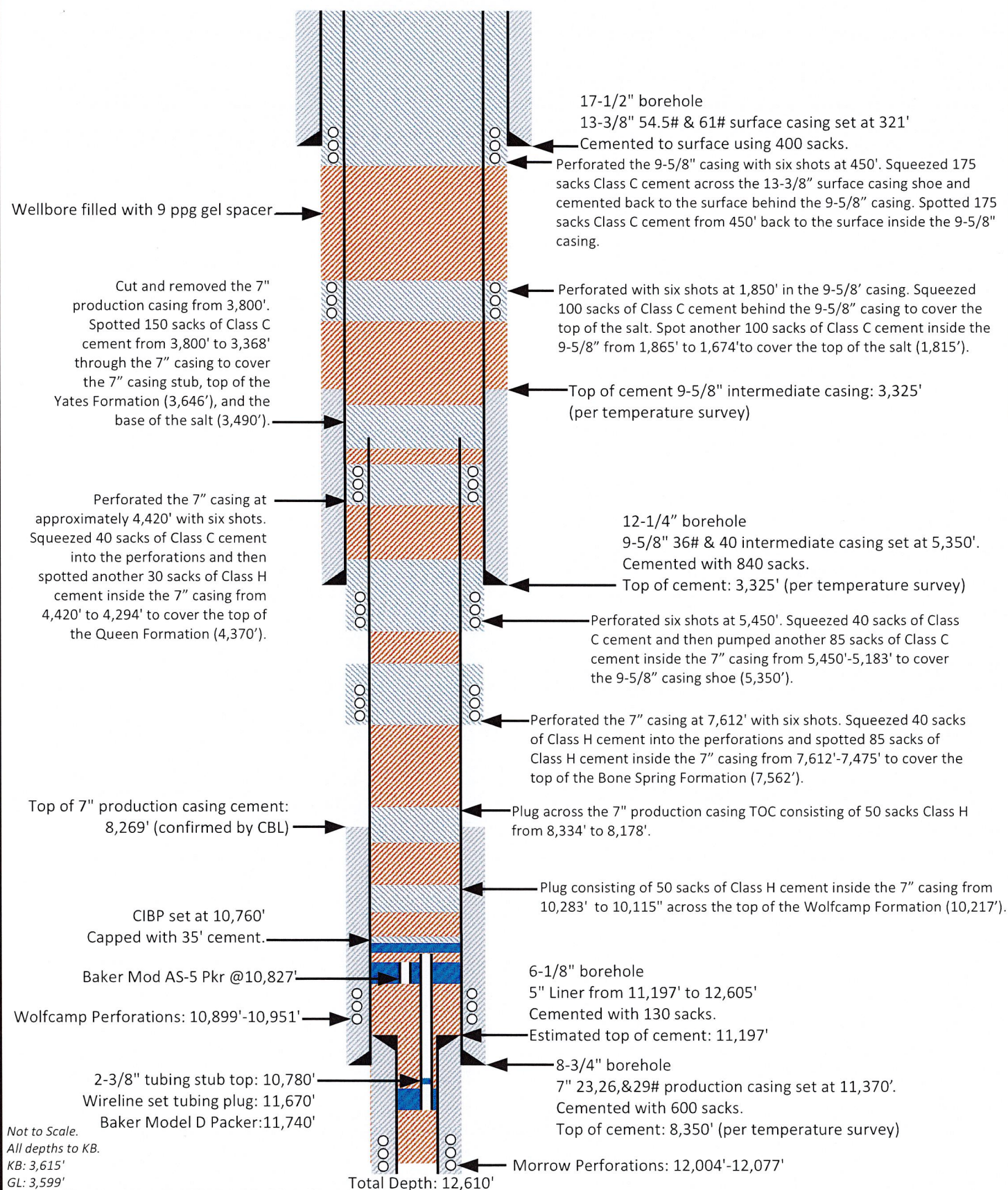
Area of Review Information:

- 2-mile Oil & Gas Well Map
- 1/2-Mile Well Detail List
- Penetrating Wellbore Diagram (Plugged Wells)
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



AOR Tabulation for Yo State SWD #001 (Top of Injection Interval: 5,540' - 6,930')						
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Penetrate Inj. Zone?
STATE WE K #001	30-025-22004	Plugged	Raz Oil and Gas LLC	1/10/1967	F-15-21S-35E	Yes
Total Vertical Depth (feet)						
						12,610 (plugged)

Casing / Plugging Information for Wells Penetrating the Yo State SWD #001 Injection Zone						
Well Name	Type	Set Depth	Casing Size	TOC	TOC Method Determined	Hole Size
STATE WE K #001	Surface	321'	13.375"	Surface	Circulation	17.5"
	Intermediate	5,350'	9.625"	3,325'	Temperature Survey	12.25"
	Production	4,420' - 11,370'	7"	8,350'	Temperature Survey	8.75"
	Liner	11,197' - 12,605'	5"	11,197'	Estimated	6.125"
Plugging Details: Tubing plug @11,670'. CIBP @10,760' capped with 35' cement. Plugs @10,283' - 10,115' with 50 sx, @8,334' - 8,178' with 50 sx. Perf and squeeze @7,612' to 7,475' with 40 sx and spotted 85 sx inside 7" casing from 7,612' - 7,475', @5,450' - 5,183' with 40 sx and spotted 80 sx from 5,450' - 5,183', @4,420' - 4,294' w/ 70 sx. 7" casing cut and pulled @3,800', spotted 150 sx from 3,800' to 3,368'. Perf and squeeze @1,850' - 1,674' with 100 sx and spotted 100 sx from 1,865' - 1,674', @450' - surface with 175 sx and spotted 175 sx from 450' - surface.						



Prepared by:

ALLCONSULTING

Drawn by: Joshua Ticknor

Project Manager:
Joshua Ticknor

Date: 09/07/2023

Subsequent Report of P&A Wellbore Diagram
Raz Oil and Gas, LLC
State WE "K" #1
API # 30-025-22004
1980' FNL x 1980' FWL, UL 'F'
Sec 15, T21S, R35E, Lea County, NM

Legend

★

YO STATE SWD #1

BLM Communication Units

NMSLO Mineral Leases

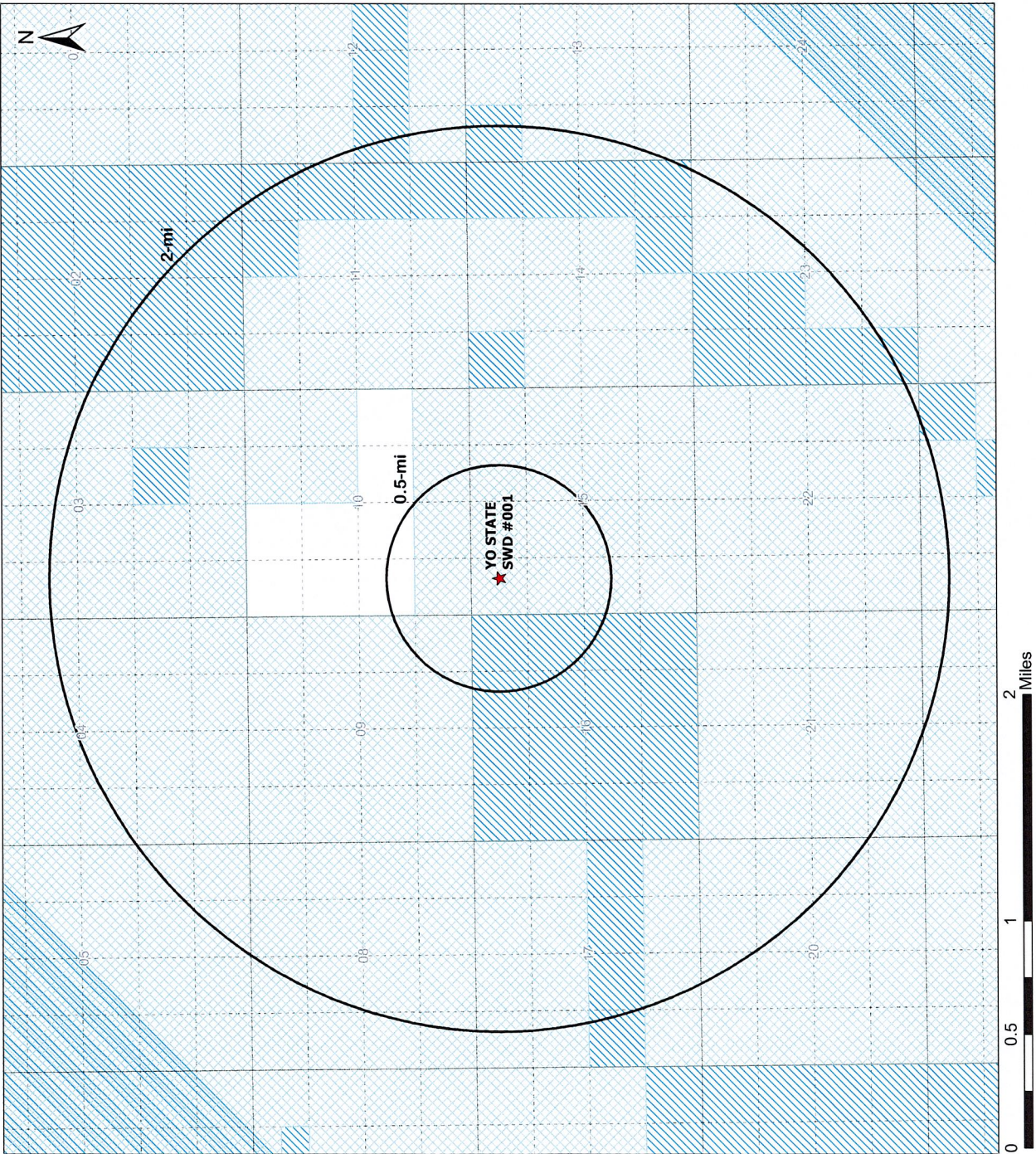
Private Mineral Leases

Source Info: BLM Mineral Leases (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>), NMSLO Mineral Leases (<http://www.nmslolands.org/maps-gis/gis-data-download/>). Where applicable, Private Mineral Leases were identified utilizing Enverus, Midland Maps, or operator identified lease data.

Mineral Lease AOR			
YO STATE SWD #001			
Lea County, New Mexico			
Proj Mgr: Reed Davis	November 08, 2024		Mapped by: Ben Bockelmann
Prepared for:	RAZ OIL & GAS		
			Prepared by: ALL CONSULTING

The map displays a grid of mineral lease units in Lea County, New Mexico. The units are color-coded and patterned according to the legend: red for YO STATE SWD #1, orange for BLM Communication Units, green for NMSLO Mineral Leases, and black for Private Mineral Leases. The map includes a scale bar (0 to 2 miles) and a north arrow. The central unit is marked with a red star and labeled 'YO STATE SWD #001'. Surrounding units are labeled with owner names and lease numbers. The map is titled 'Mineral Lease AOR' and 'YO STATE SWD #001 Lea County, New Mexico'.

Released to Imaging: 7/27/2023 3:13:17 PM



Mineral Ownership AOR			
YO STATE SWD #001 Lea County, New Mexico			
Proj Mgr: Joshua Ticknor	September 28, 2023	Mapped by: Ben Bockelmann	
Prepared for: RAZ OIL & GAS		Prepared by: ALL CONSULTING	

Legend

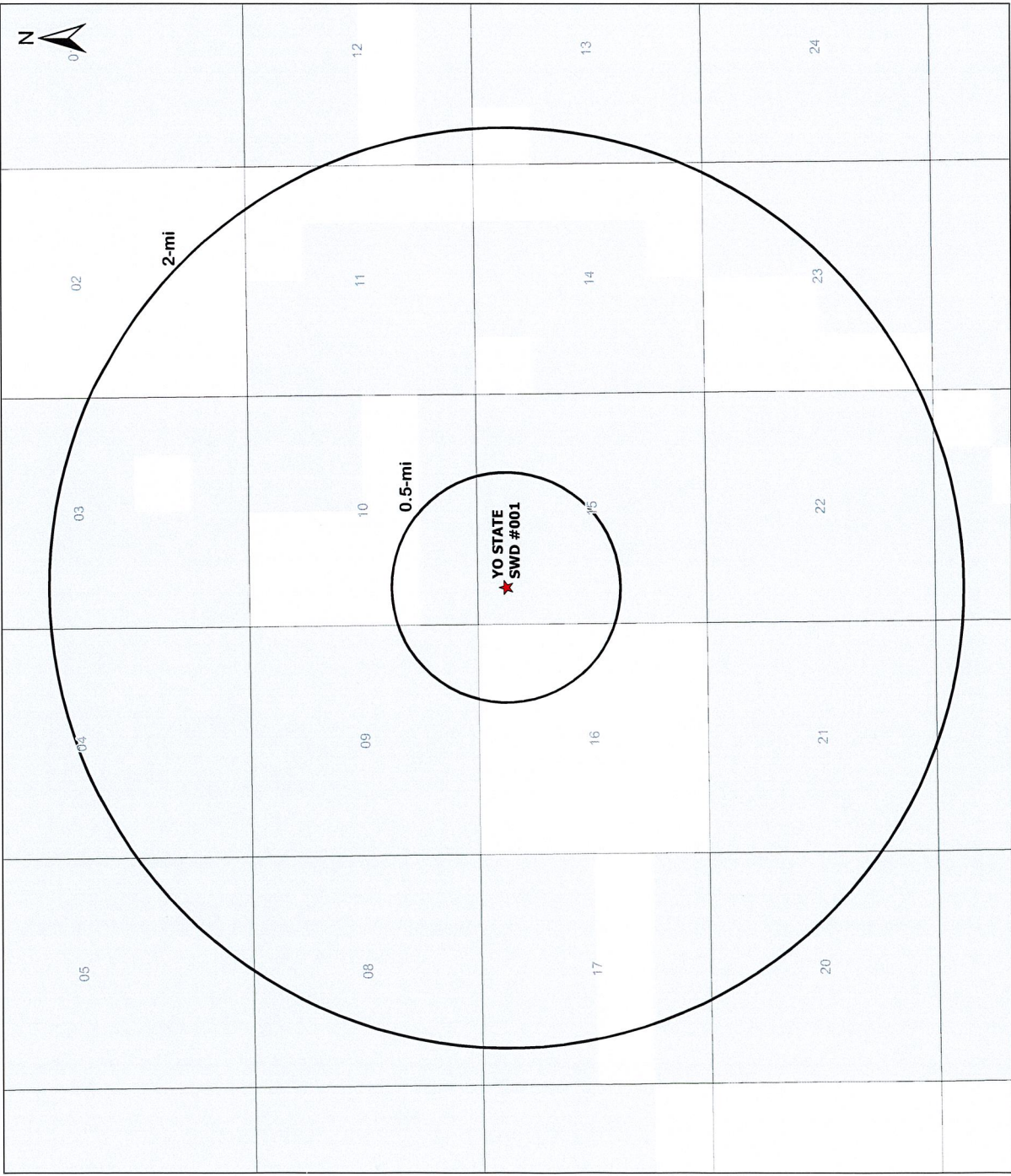
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YO STATE SWD #1 (1)

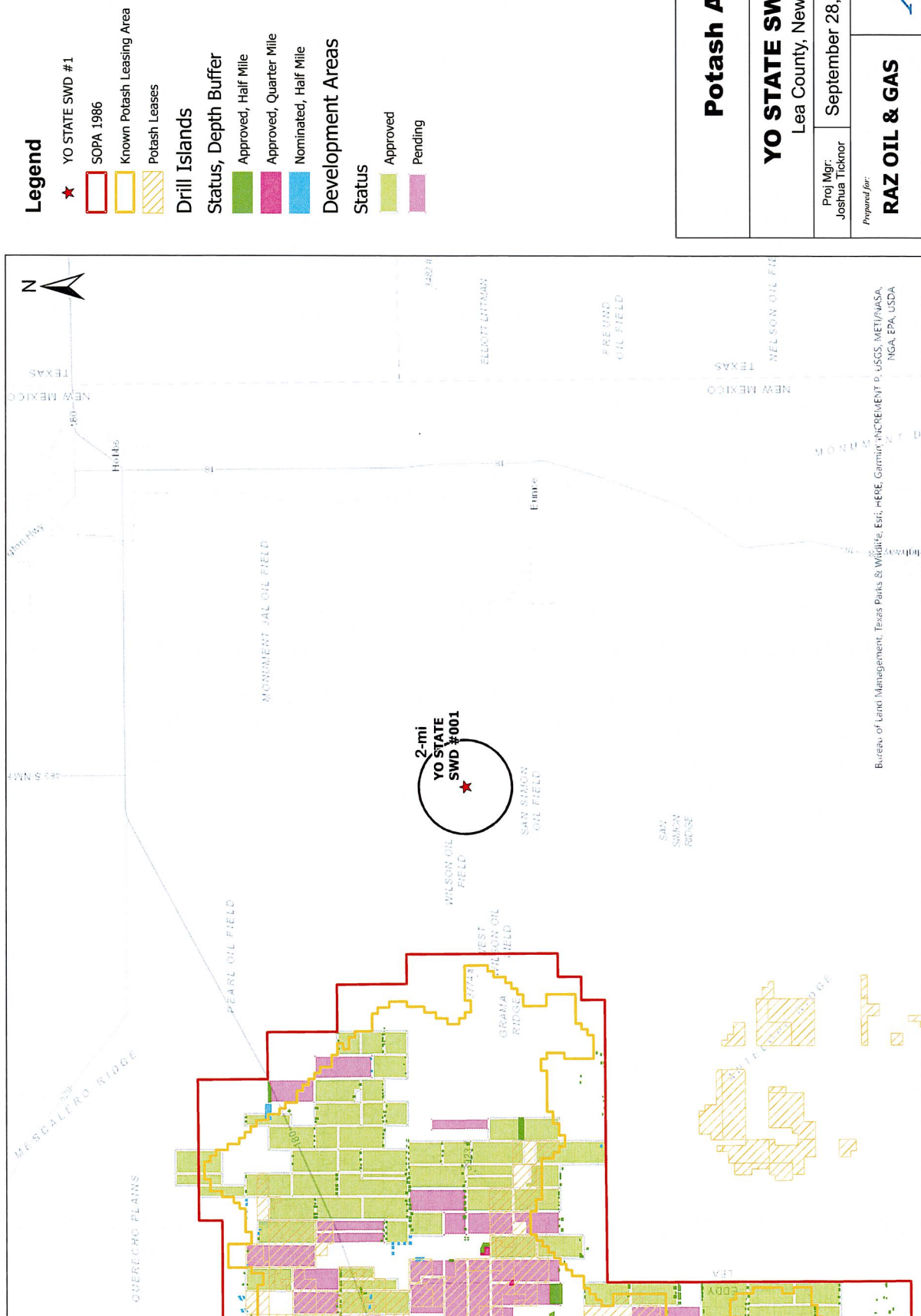
Surface Ownership

Private (9)

State (2)



Surface Ownership AOR			
YO STATE SWD #001 Lea County, New Mexico			
Proj Mgr: Joshua Ticknor	September 28, 2023	Mapped by: Ben Bockelmann	
Prepared for: RAZ OIL & GAS		Prepared by: ALLI CONSULTING	



Attachment 3

Source Water Analysis

Source Water Analysis

Raz Oil and Gas LLC - YO State SWD #001

Well Name	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgs	Ftgs	County	State	Field	Formation	TDS (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
APPLISHED FEDERAL COM #001	3002520377	32.5750008	-103.4730377	17	20S	35E	II	1980S	660E	LEA	NM	LYNCH	BONE SPRING	173.141	93.660	5.174	7.916
HUNT APO STATE #001	3002527135	32.5070038	-103.4812317	4	21S	34E	T	2310S	660W	LEA	NM	GRAMA RIDGE NORTH	BONE SPRING	294.627	216.575	74	403
BERRY APO STATE #001	3002527250	32.5060349	-103.4983444	5	21S	34E	I	1980S	660W	LEA	NM	BERRY NORTH	BONE SPRING	192.871	132.048	163	445
HUNT APO STATE #001	3002527135	32.5070038	-103.4812317	4	21S	34E	T	2310S	660W	LEA	NM	GRAMA RIDGE NORTH	BONE SPRING	294.627	216.575	74	403
MONK 21 STATE COM #001H	3002540986	32.4706993	-103.4818954	21	21S	34E	D	330N	460W	LEA	NM		BONE SPRING 2ND SAND	261.089	160.264	122	425
MONK 21 STATE #004H	3002542193	32.4710767	-103.4727296	21	21S	34E	B	200N	1980E	LEA	NM		BONE SPRING 2ND SAND	184.233	112.775	488	425
GAUCHO UNIT #007H	3002514440	32.3880961	-103.4941711	17	22S	34E	K	1650S	1980W	LEA	NM		BONE SPRING 2ND SAND	166.698	101.677	61	675
GAUCHO UNIT #015H	3002541566	32.3841896	-103.4984589	20	22S	34E	D	100N	660W	LEA	NM		BONE SPRING 2ND SAND	158.147	96.378	232	710
GAUCHO UNIT #011H	3002541184	32.385006	-103.4891129	17	22S	34E	O	200S	1730E	LEA	NM		BONE SPRING 3RD SAND	156.141	97.978	305	1,005
GAUCHO UNIT #010H	3002541183	32.385006	-103.4892731	17	22S	34E	O	200S	1780E	LEA	NM		BONE SPRING 3RD SAND	165.155	100.777	220	560
GAUCHO UNIT #010H	3002541183	32.385006	-103.4892731	17	22S	34E	O	200S	1780E	LEA	NM		BONE SPRING 3RD SAND	165.155	100.777	220	560
WILSON DEEP UNIT #001	300250461	32.4805832	-103.4253387	13	21S	34E	F	2080N	2080W	LEA	NM	WILSON	MORROW	11.648	566	2.161	5,252
BUNICE MONUMENT SOUTH UNIT #102	3002504326	32.5495567	-103.3014832	25	20S	36E	A	660N	660E	LEA	NM		YATIS		247.872	1,091	30,984

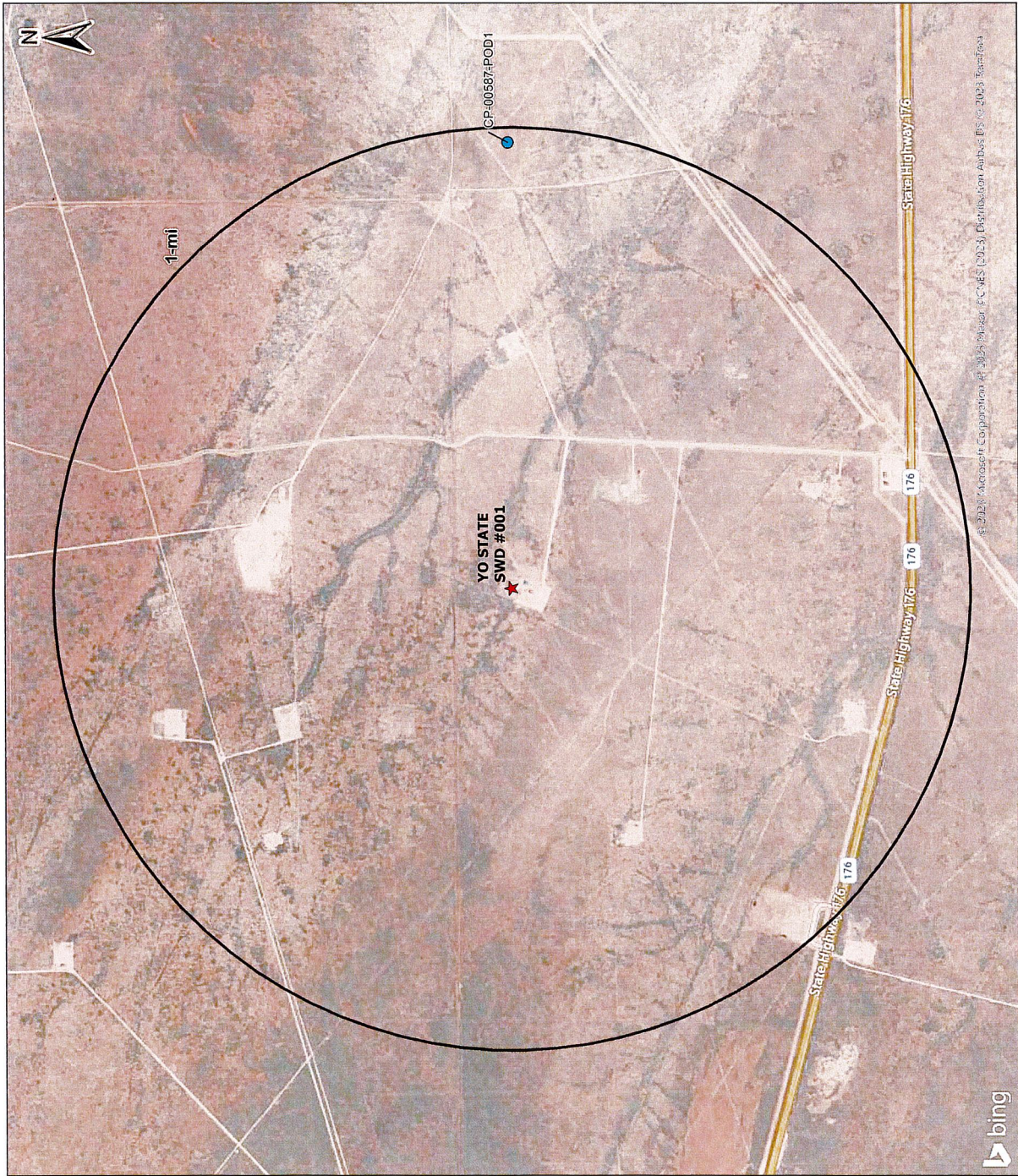
Attachment 4

Injection Formation Water Analysis

Injection Formation Water Analysis																	
Raz Oil and Gas LLC - YO State SWD #001 - Delaware Mountain Group																	
Well Name	API	Latitude	Longitude	Section	Township	Range	Unit	Pgns	Fgws	County	State	Field	Formation	TDS (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)
MOBIII, L.F.A STATE: #001	3002531696	32.5999107	-103.5331573	2	20S	34E	K	1800S	1980W	LEA	NM	LEA NORTHEAST	DELAWARE	152,064	102,148	404	691
MOBIII, L.F.A STATE: #003	3002532105	32.5976906	-103.5367584	2	20S	34E	M	990S	870W	LEA	NM	LEA NORTHEAST	DELAWARE	296,822	215,237	143	294
MOBIII, L.F.A STATE: #005	3002532466	32.6028633	-103.5367584	2	20S	34E	E	2440N	870W	LEA	NM	LEA NORTHEAST	DELAWARE	340,838	245,270	229	147
LEA UNIT #001	3002502427	32.3858536	-103.520256	12	20S	34E	L	1980S	660W	LEA	NM	LEA	DELAWARE	214,787	132,700	208	1,816
LAUCHITO 21 FEDERAL: #002H	3002504626	32.3709793	-103.4823151	21	22S	34E	M	375S	375W	Lea	NM	DELAWARE-BRUSITY CANYON	DELAWARE-BRUSITY CANYON	266,468	167,562	366	

Attachment 5

- Water Well Map
- Well Data



Legend

★ YO STATE SWD #1 (1)

OSE PODs

Status

● Active (1)

● Pending (0)

● Change Location of Well (0)

● Capped (0)

● Plugged (0)

● Incomplete (0)

○ Unknown (0)

Source Info: NMOSE PODs updated 9/21/2023
(<https://geospatialdata-ose.opendata.arcgis.com/search?collection=Dataset>)

Water Wells AOR Map			
YO STATE SWD #001 Lea County, New Mexico			
Proj Mgr: Joshua Ticknor	September 27, 2023	Mapped by: Ben Bockelmann	
Prepared for: RAZ OIL & GAS		Prepared by: ALL CONSULTING	

Water Well Sampling Rationale					
Raz Oil and Gas LLC - YO State SWD #001					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
CP-00587-POD1	The Merchant Livestock Company	P.O. Box 1105 Eunice, NM 88231spencer@merchantlivestock.com	Livestock Watering	Yes	CP-00587-POD1 was sampled on June 7, 2015.



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

RAZ OIL & GAS
 BEN THOMPSON
 P. O. BOX 1180
 EUNICE NM, 88231
 Fax To: NONE GIVEN

Received: 06/08/2015
 Reported: 06/12/2015
 Project Name: WATER WELL CP00587
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 06/07/2015
 Sampling Type: Water
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: WELL WATER (H501468-01)

Chloride, SM4500Cl-B

mg/L

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	92.0	4.00	06/09/2015	ND	104	104	100	0.00	

TDS 160.1

mg/L

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	860	5.00	06/11/2015	ND	552	105	527	1.35	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Attachment 6

No Hydrologic Connection Statement



**RE: Raz Oil and Gas LLC – YO State SWD #1 – Plug Back Saltwater Disposal
Application, Lea County, New Mexico**

ALL Consulting LLC (ALL) has performed a thorough hydrologic investigation related to the proposed plug back of the YO State SWD #1 into the Delaware Mountain Group. The hydrologic investigation was conducted to determine if there were any existing or potential connections between the proposed injection intervals in the Delaware Mountain Group and the deepest underground source of drinking water (USDW).

ALL performed an assessment and analysis of the subsurface geophysical log data along with published documents on the groundwater in this vicinity of Eddy County, New Mexico. Based on ALL's assessment and analysis there is containment through multiple confining zones above the Delaware Mountain Group and the USDW and over 4,690 feet of vertical separation between the base of the USDW and the top of the injection interval. Additionally, there is no evidence of extensive faulting that would allow for communication between the USDW and the Delaware Mountain Group.

A handwritten signature in blue ink that reads "Tom Tomastik".

October 19, 2023

Tom Tomastik

Date

Chief Geologist and Regulatory Specialist

ALL Consulting LLC

Attachment 7

Public Notice Affidavit and Notice of Application Confirmations

APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That Raz Oil and Gas L.L.C., P.O. Box 1180 Eunice, NM 88231, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

PURPOSE: The intended purpose of the injection well is to dispose of salt water produced from permitted oil and gas wells.

WELL NAME AND LOCATION: YO State SWD #1
Located 12.24 miles northwest of Eunice, NM
NW ¼ NW ¼, Section 15, Township 21S, Range 35E
660' FNL & 840' FWL
Lea County, NM

NAME AND DEPTH OF DISPOSAL ZONE: Delaware Mountain Group (5,540' – 6,930')
EXPECTED MAXIMUM INJECTION RATE: 20,000 Bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE: 1,108 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

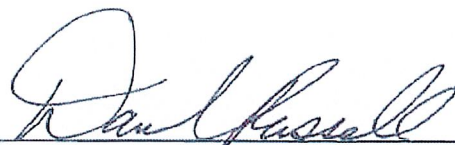
Additional information may be obtained by contacting Joshua Ticknor at (580)-916-2126.

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

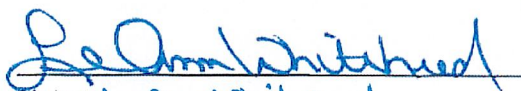
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
October 24, 2023
and ending with the issue dated
October 24, 2023.



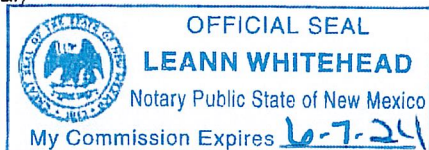
Publisher

Sworn and subscribed to before me this
24th day of October 2023.



Notary LeAnn Whitehead

My commission expires
June 07, 2024
(Seal)



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

LEGAL NOTICE October 24, 2023

APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That Raz Oil and Gas L.L.C., P.O. Box 1180 Eunice, NM 88231, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

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Additional information may be obtained by contacting Oliver Seekins at 918-382-7581.
#00284109

67115320

00284109

DANIEL ARTHUR
ALL CONSULTING
1718 S. CHEYENNE AVE.
TULSA, OK 74119

Raz Oil and Gas L.L.C. - YO State SWD #1 - Affected Persons							
Affected Party Classification	Entity - Proof of Notice	Entity - As Mapped/Exhibited	Address	City	State	Zip Code	
Mineral / Surface Owner	New Mexico State Land Office	NMSLO	310 Old Santa Fe Trail	Santa Fe	NM	87501	
NMOC District Office	New Mexico Oil Conservation District 1	N/A	1625 N. French Drive	Hobbs	NM	88240	
NMSLO Lessee	Federal Abstract Company	Federal Abstract Company	P.O. Box 4362	Houston	TX	77210-4362	
NMSLO Lessee	Devon Energy Production Company Limited Partnership	Devon Energy Production Co. LP	333 W Sheridan Avenue	Oklahoma City	OK	73102	
NMSLO / Fee Lessee	James D. Finley	James D Finley	1308 Lake Street Suite 200	Fort Worth	TX	76102	
NMSLO / Fee Lessee	Apache Corporation	Apache Corporation	303 Veterans Airpark Ln #1000	Midland	TX	79705	
NMSLO Lessee	Kaiser-Francis Oil Company	Kaiser-Francis Oil Co	P.O. Box 21468	Tulsa	OK	74121	
Fee Lessee	Matador Resources Company	Matador Pet. Etal.	5400 IBI Freeway, Suite 1500	Dallas	TX	75240	
Fee Lessee	Tom Brown Incorporated	Tom Brown, Inc.	508 W Wall, Suite 500	Midland	TX	79701	

Notes: The affected parties above received notification of this C-108 application.

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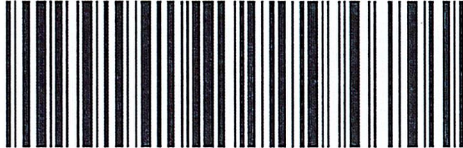
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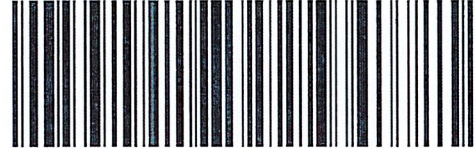
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Devon Energy Production Company
Limited Partnership
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OKLAHOMA CITY OK 73102-5010

New Mexico Oil Conservation
District 1
1625 N FRENCH DR
HOBBS NM 88240-9273

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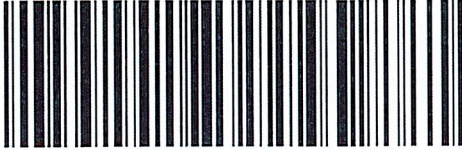


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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 488959

CONDITIONS

Operator: RAZ OIL AND GAS L.L.C. P.O. Box 1180 Eunice, NM 88231	OGRID: 370507
	Action Number: 488959
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	7/27/2025