

AE Order Number Banner

Application Number: pEG2528342237

Initial Application Part I

SWD-2673

Spur Energy Partners LLC [328947]

Received: 10/01/2025



September 30, 2025

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

Subject: Spur Energy Partners (OGRID No. 328947)
Application for Authorization Inject – Dinah 23 Fed Com SWD #1

To Whom it May Concern,

On behalf of Spur Energy Partners, ALL Consulting, LLC is submitting the enclosed Application for Authorization to Inject for the Dinah 23 Fed Com SWD #1, a proposed saltwater disposal well, in Eddy County, NM.

Should you have any questions regarding the enclosed application, please contact Reed Davis at (918) 382-7581 or rdavis@all-llc.com.

Sincerely,
ALL Consulting

A handwritten signature in black ink, appearing to read "Reed Davis".

Reed Davis
Geophysicist

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: _____ OGRID Number: _____
 Well Name: _____ API: _____
 Pool: _____ Pool Code: _____

**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 holders

B. ☐ Royalty, overriding royalty owners, revenue owners

C. ☐ Application requires published notice

D. ☐ Notification and/or concurrent approval by SLO

E. ☐ Notification and/or concurrent approval by BLM

F. ☐ Surface owner

G. ☐ For all of the above, proof of notification or publication is attached, and/or,

H. ☐ No notice required

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.

Print or Type Name

Date

Phone Number

Signature

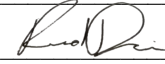
e-mail Address

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 _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ ☒ Yes _____ No
- II. OPERATOR: Spur Energy Partners LLC
ADDRESS: 9655 Katy Freeway, Suite 500, Houston, TX 77024
CONTACT PARTY: Sarah Chapman PHONE: 832-930-8502
- 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 ☒ No
If yes, give the Division order number authorizing the project: _____
- 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: Reed Davis TITLE: Geophysicist
SIGNATURE:  DATE: September 30, 2025
E-MAIL ADDRESS: rdavis@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

Application for Authorization to Inject
Well Name: Dinah 23 Fed Com SWD #1

III – Well Data *(The wellbore diagram is included as Attachment 1)*

A.

(1) General Well Information:

Operator: Spur Energy Partners (OGRID No. 328947)
Lease Name & Well Number: Dinah 23 Fed Com SWD #1
Location Footage Calls: 1,077' FSL & 660' FWL
Legal Location: Lot M, S23-T17S-R28E
Ground Elevation: 3,590
Proposed Injection Interval: 8,000' – 8,550'
County: Eddy

(2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	48.5 lb/ft	560'	575	Surface	Circulation
Intermediate	12-1/4"	9-5/8"	36.0 lb/ft	2,650'	950	Surface	Circulation
Production	8-3/4"	5-1/2"	15.5 / 17.0 lb/ft	10,560'	1,440	5,858'	CBL

Spur intends to perform remedial cement work during recompletion to tie 5-1/2" production casing cement back into previous string.

(3) Tubing Information:

3-1/2" fiberglass or equivalent lined tubing set at approximately 7,980'

(4) Packer Information: ACT AS1-X or equivalent packer set at 7,980'

B.

(1) Injection Formation Name: Cisco-Canyon

Pool Name: SWD;CISCO-CANYON

Pool Code: 96186

(2) Injection Interval: Perforated injection between 8,000' – 8,550'

(3) Drilling Purpose: Recompletion for saltwater disposal

(4) Other Perforated Intervals: 7,862' – 7,872', 9,810' - 9,817' (squeezed), 10,163' – 10,338' (squeezed)

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

- Glorieta (3,541')
- Tubb (4,997')
- Abo (5,594')
- Wolfcamp (6,912')

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

- Strawn (9,423')

- Atoka (9,726')
- Morrow (10,375')

V – Well and Lease Maps

A map identifying all wells and leases within the proposed Dinah 23 Fed Com SWD #1 AOR is included as **Attachment 9**.

VI – AOR Well List

A list of the well(s) within the 1/2-mile AOR is included as **Attachment 2**.

Three (3) wells in the ½-mile AOR penetrate the proposed injection zone. All three wells have been properly cased and cemented (or plugged) to isolate the injection zone. Wellbore diagrams and casing information for the plugged well is also included in **Attachment 2**.

VII – Proposed Operation

(1) **Proposed Maximum Injection Rate:** 10,000 bpd

Proposed Average Injection Rate: 5,000 bpd

Step Rate Test: Review of step rate tests (SRTs), and the associated injection pressure increase orders, at Spur's nearby Cisco-Canyon SWDs (IPI-538, IPI-546, IPI-547) indicate that the proposed rate and pressure limits will not lead to fracturing of the Cisco-Canyon:

- Secrest Et Al SWD #1 (IPI-538):** SRT reached maximum rate of 6.0 bpm (8,640 bpd) at 2,925 psi surface pressure, and no breakover was observed.
- Osage Boyd 15 SWD #1 (IPI-546):** SRT reached maximum rate of 7.0 bpm (10,080 bpd) at 2,520 psi surface pressure. Fracture opening pressure was observed at approximately 4.0 bpm (5,760 bpd) at 1,828 psi surface pressure (0.692 psi/ft gradient). This well was previously stimulated, and its pre-stimulation fracture gradient is likely equivalent to the 0.704 psi/ft indicated by the Lakewood Farms 18 SWD #1 SRT.
- Lakewood Farms 18 SWD #1 (IPI-547):** SRT indicated breakover at approximately 5.0 bpm (7,200 bpd) at 2,150 psi surface pressure (0.704 psi/ft gradient at 5,470 psi bottom hole pressure).

(2) A closed-loop system will be used.

(3) **Proposed Maximum Injection Pressure:** 1,600 psi (surface)

Proposed Average Injection Pressure: Approximately 1,040 psi (surface)

(4) **Source Water Analysis:** The expected injectate will consist of produced water from production wells completed in the Glorieta/Yeso and Bone Spring formations. Publicly available water quality analysis from the Go-Tech database is included for these formations as **Attachment 3**.

(5) **Injection Formation Water Analysis:** The proposed SWD will be injecting water into the Cisco-Canyon formations, which is a non-productive zone known to be compatible with formation water from the Glorieta/Yeso and Bone Spring and formations. Water analyses from the Canyon Formation in the area are included as **Attachment 4**.

VIII – Geologic Description

The proposed injection interval includes the Cisco and Canyon Formations (Cisco-Canyon) from 8,000' – 8,550'. The Pennsylvanian-aged Cisco-Canyon consists of interbedded carbonate rocks

including dolomites and limestones, with sections of porous and permeable sandstone interbedded. There are multiple zones of high porosity and low resistivity that makes this formation a viable injection zone in this area.

Further reservoir characterization, including discussion of the injection formation, overlying and underlying confinement zones, and historic use of the field are contained in **Attachment 5**.

The base of the USDW is the San Andres Formation at a depth of approximately 550 feet. Depth of the nearby water wells in the area range from 60 to 220 feet below ground surface.

IX – Proposed Stimulation Program

A small cleanup acid job may be used to remove mud and drill cuttings from the formation, with approximately 3,500 gallons of 15% HCl or less.

X – Logging and Test Data

Logs from the subject well have previously been submitted to the Oil Conservation Division.

XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, three (3) water wells are located within one mile of the proposed location. Attempts were made to contact the water well owners, and a site search was conducted for one well with no known contact information. Spur has not received permission to sample any of these water wells at this time.

A water well map is included as **Attachment 6**.

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 and cementing of the well will ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

A signed *No Hydrologic Connection Statement* is included as **Attachment 7**.

In addition, a *Seismic Potential Letter* detailing the minimal risk of injection-induced seismicity associated with the proposed SWD is included as **Attachment 8**.

XIII – Proof of Notice

A public notice was filed with the Artesia Daily Press newspaper, and an affidavit is included in **Attachment 9**.

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 as **Attachment 9**.

Attachments

Attachment 1:

- C-102
- Wellbore Diagram
- Packer Diagram

Attachment 2: Area of Review Information:

- 2-mile Production Review Map
- 1/2-mile Problem Well Map
- 1/2-mile AOR Well Table
- 2-mile Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map

Attachment 3: Source Water Analysis

Attachment 4: Injection Formation Water Analysis

Attachment 5: Reservoir Characterization

Attachment 6: Water Well Map and Well Data

Attachment 7: No Hydrologic Connection Statement

Attachment 8: Seismic Potential Letter

Attachment 9: List of Affected Persons and Proof of Notice

Attachment 1

- C-102
- Wellbore Diagram
- Packer Diagram

DISTRICT I

P.O. Box 1980, Hobbs, NM 58241-1980

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-28946	Pool Code 76400	Pool Name Empire, South, Morrow
Property Code	Property Name DINAH 23 FED COM	Well Number 1
OGRID No. 000990	Operator Name ARCO PERMIAN	Elevation 3590

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	17 S	28 E		1077	SOUTH	660	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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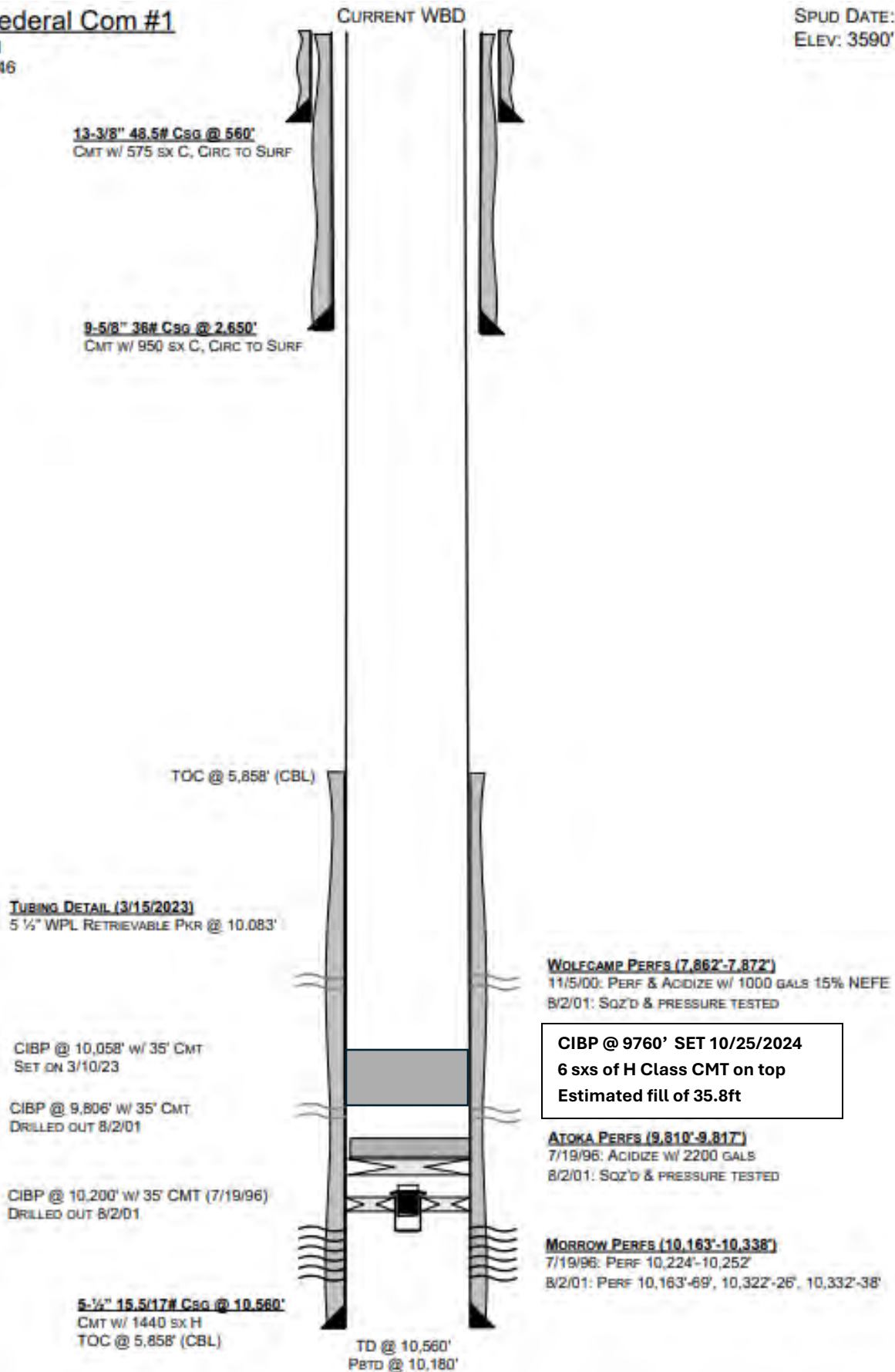
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>656 FWL 1092 FSL</p> <p>N = 660538.9 E = 555536.3</p> <p>660'</p> <p>1077'</p>	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Ken W. Gosnell Printed Name Agent Title March 28, 1996 Date	
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MARCH 1, 1996 Date Surveyed Signature & Seal of Professional Surveyor WQ. Num. 96-1150304 Certificate No. JOHN W. WEST 676 RONALD J. EDSON 3239 GARY EDSON 12641	

Dinah 23 Federal Com #1Eddy County, NM
API# 30-015-28946

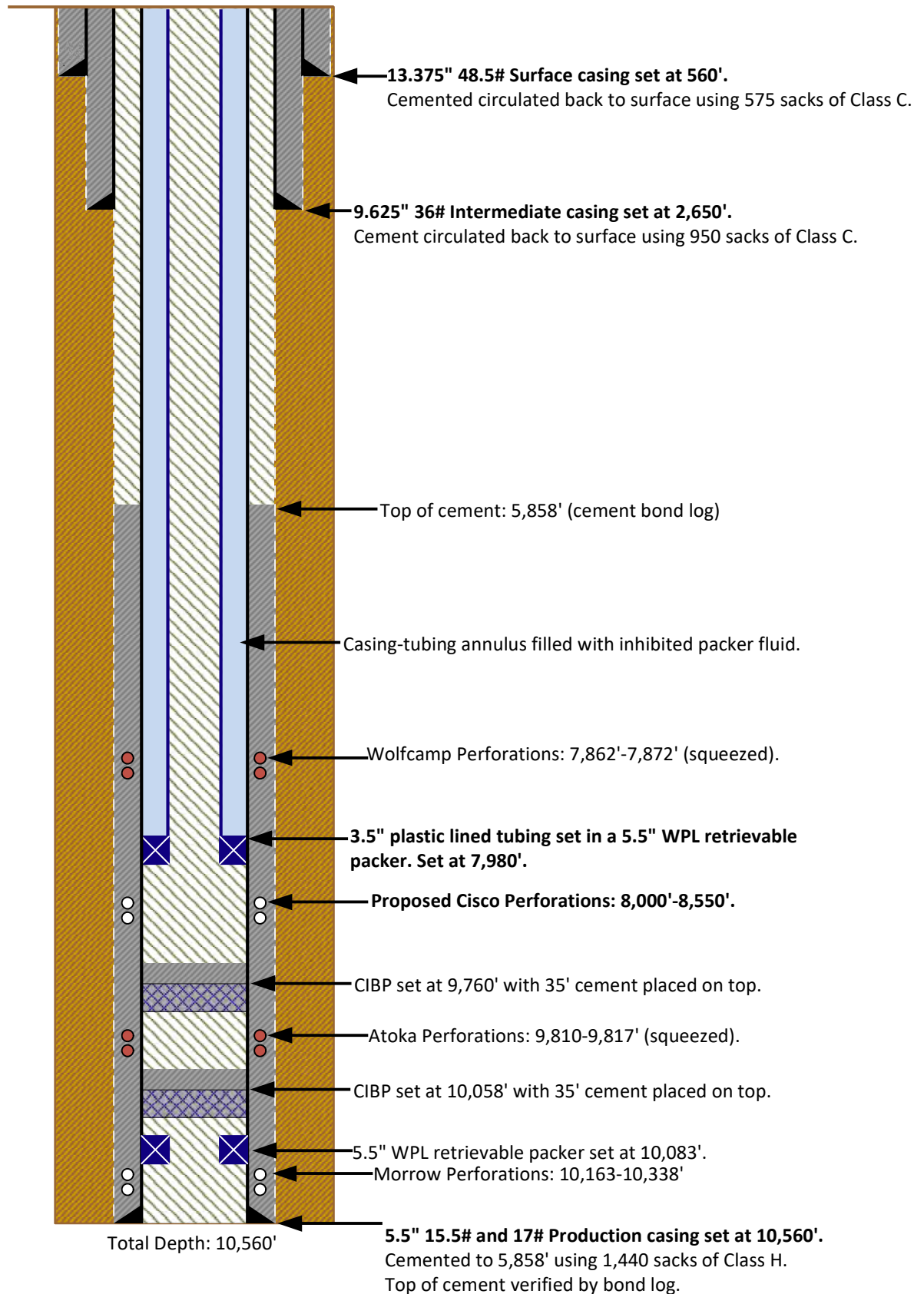
SPUD DATE: 5/27/1996

ELEV: 3590' GL



Updated 10/29/2024 by Brayden Hight

GL Elevation: 3,590'



NOT TO SCALE

Note: Listed depths and cement volumes are
approximates based on available information.

Proposed WBD



Drawn by: Joshua Ticknor

Project Manager: Reed Davis

Date: 07/03/2025

Dinah 23 Federal Com #1
API: 30-015-28946
Wellbore Diagram
M-23-17S-28E 1077 FSL, 660 FWL
Eddy County, New Mexico



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(800) 441-3504 ■ www.dloiltools.com



ASI-X PACKER

The **ASI-X Single String Double-Grip Production Packer** is the most versatile of the mechanically set retrievable packers and may be used in any production application. This packer is suited for treating, testing, or injection applications, in pumping or flowing wells, either deep or shallow. This packer can be left in tension or compression depending on well conditions and the required application.

A large internal by-pass reduces swabbing when running and retrieving. The by-pass closes when the packer is set and opens prior to releasing the upper slips when retrieving to allow pressure equalization. The J-slot design allows easy setting and releasing; 1/4 turn right-hand set, 1/4 turn right-hand release.

The standard ASI-X Packer is designed for differential pressures up to 7,000 PSI

(unless noted otherwise). This packer is also available in an HT version which is designed for differential pressures up to 10,000 PSI (unless noted otherwise). The HT version allows this packer to be utilized in completions where high pressure treating operations are performed and it is desirable to leave the tool in the well for production.

Special Features

- By-pass below upper slips to wash debris when valve is opened
- By-pass is opened before upper slips are released
- Can be set with tension for shallow well applications
- Can be left in tension, compression or neutral
- 1/4 turn right-hand set, 1/4 turn right-hand release
- Additional J-Slot arrangements available

Product Specifications

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)						Std	HT
2-7/8	6.4 - 6.5	2.375 - 2.441	2.250	2.263 ¹	0.63	1.050 EUE	60325-3E*	-
	8.6	2.259	2.125	2.152 ¹	0.63	1.050 EUE	60324-3E*	-
3-1/2	7.5 - 7.7	3.068 - 3.250	2.938	-	1.25	1.900 NUE	60336*	-
	7.7 - 10.2	2.922 - 3.068	2.781	-	1.25	1.900 NUE	60335*	-
	12.95	2.750	2.562	-	1.00	1.315 EUE / 1.660 EUE	60337*	-
4	9.5 - 11.0	3.476 - 3.548	3.250	3.312 ¹	1.50	1.900 EUE	60340*	-
	10.46 - 12.95	3.340 - 3.476	3.187	-	1.50	1.900 EUE	60341*	-
4-1/2	9.5 - 13.5	3.920 - 4.090	3.750	-	1.94	2-3/8 EUE	60345 ²	60345HT ²
	13.5 - 15.1	3.826 - 3.920	3.650	-	1.94	2-3/8 EUE	60344 ²	60344HT ²
	15.1	3.826	3.641	-	1.94	2-3/8 EUE	60346	-
	15.1 - 16.6	3.754 - 3.826	3.594	-	1.50	1.900 EUE	60343	-
	18.8	3.640	3.437	-	1.50	1.900 EUE	60342	-

¹Maximum OD is across retracted drag blocks.

²Drilled for wireline.

* Designed for differential pressures up to 10,000 PSI.

Rubber Trim Upgrade Options (additional cost, inquire with a D&L sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM

NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.





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ASI-X Packer Product Specifications (continued)

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)						Std	HT
5	11.5 - 15.0	4.408 - 4.560	4.125	4.220 ¹	1.94	2-3/8 EUE	60350	60350HT
	15.0 - 18.0	4.276 - 4.408	4.063	-	1.94	2-3/8 EUE	60349	-
	18.0 - 20.8	4.156 - 4.276	4.000	4.010 ¹	1.94	2-3/8 EUE	60352	60352HT
	21.4	4.126	3.938	-	1.94	2-3/8 EUE	60353	60353HT
5-1/2	13.0 - 14.0	5.012	4.813	-	2.38	2-7/8 EUE	60358	60358HT
	14.0 - 20.0	4.778 - 5.012	4.625	-	2.00	2-3/8 EUE	60355 ²	60355HT ²
				-	2.38	2-7/8 EUE	60356 ²	60356HT ²
	20.0 - 23.0	4.670 - 4.778	4.500	-	2.00	2-3/8 EUE	60357 ²	60357HT ²
				-	2.38	2-7/8 EUE	60359 ²	60359HT ²
	23.0 - 26.0	4.548 - 4.670	4.375	-	1.94	2-3/8 EUE	60354	60354HT
			4.406	-	2.38	2-7/8 EUE	60351	60351HT
5-3/4	15.0 - 16.1	5.201-5.240	5.000	-	2.00	2-3/8 EUE	60357X	60357XHT
				-	2.38	2-7/8 EUE	60358X	60358XHT
	17.6 - 19.4	5.083-5.146	4.875	-	2.00	2-3/8 EUE	60357Y	60357YHT
				-	2.38	2-7/8 EUE	60358Y	60358YHT
	21.5 - 24.0	4.909-5.004	4.720	-	2.00	2-3/8 EUE	60357Z	60357ZHT
				-	2.38	2-7/8 EUE	60358Z	60358ZHT
6	10.0	5.672	5.375	-	2.50	2-7/8 EUE	60361	-
	12.0 - 20.0	5.352 - 5.620	5.188	-	2.38	2-7/8 EUE	60360	60360HT
6-5/8	17.0 - 24.0	5.921 - 6.135	5.750	-	2.50	2-7/8 EUE	60367	60367HT
	20.0 - 24.0	5.921 - 6.049	5.750	-	3.00	3-1/2 EUE	60368	60368HT
	24.0 - 32.0	5.675 - 5.921	5.500	-	2.50	2-7/8 EUE	60365	60365HT
				-	3.00	3-1/2 EUE	60369	60369HT
	32.0 - 34.5	5.575 - 5.675	5.312	-	2.50	2-7/8 EUE	60366	60366HT

¹Maximum OD is across retracted drag blocks.

²Drilled for wireline.

* Designed for differential pressures up to 10,000 PSI.

Rubber Trim Upgrade Options (additional cost, inquire with a D&L sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM

NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.



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ASI-X Packer Product Specifications (continued)

Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)						Std	HT
7	17.0 - 20.0	6.456 - 6.538	6.250	6.281 ¹	2.50	2-7/8 EUE	60372-625	-
				-	3.00	3-1/2 EUE	60374-625	-
	17.0 - 26.0	6.276 - 6.538	6.000	6.062 ¹	2.50	2-7/8 EUE	60372 ²	60372HT ²
				6.125 ¹	3.00	3-1/2 EUE	60374	60374HT
	26.0 - 32.0	6.094 - 6.276	5.875	-	2.50	2-7/8 EUE	60370 ²	60370HT ²
				5.936 ¹	3.00	3-1/2 EUE	60373	60373HT
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	-	2.50	2-7/8 EUE	60375	60375HT
				-	3.00	3-1/2 EUE	60378	60378HT
	33.7 - 39.0	6.625 - 6.765	6.453	-	2.50	2-7/8 EUE	60376	60376HT
				-	3.00	3-1/2 EUE	60377	60377HT
8-5/8	20.0 - 24.0	8.097 - 8.191	7.750	-	2.50	2-7/8 EUE	60384	-
	20.0 - 28.0	8.017 - 8.191	7.750	7.827 ¹	4.00	4-1/2 EUE	60381	60381HT
	24.0 - 40.0	7.725 - 8.097	7.500	-	2.50	2-7/8 EUE	60385	60385HT
				-	3.00	3-1/2 EUE	60387	60387HT
	32.0 - 40.0	7.725 - 7.921	7.500	-	4.00	4-1/2 EUE	60382	60382HT
9-5/8	44.0 - 49.0	7.511 - 7.625	7.312	-	2.50	2-7/8 EUE	60386	60386HT
	32.3 - 43.5	8.755 - 9.001	8.500	-	4.00	4-1/2 EUE	60396S**	60396HT ^Δ
10-3/4	43.5 - 53.5	8.535 - 8.755	8.250	-	4.00	4-1/2 EUE	60395S**	60395HT ^Δ
	32.75 - 51.0	9.850 - 10.192	9.625	-	4.00	4-1/2 EUE	60301**	-
11-3/4	51.0 - 65.7	9.560 - 9.850	9.312	-	4.00	4-1/2 EUE	60310**	-
	42.0 - 65.0	10.682 - 11.084	10.438	10.502 ¹	4.00	4-1/2 EUE	60311**	-
13-3/8	66.7 - 80.5	10.406 - 10.656	10.200	-	4.00	4-1/2 EUE	60311Y	-
	54.5 - 77.0	12.275 - 12.615	12.000	-	4.00	4-1/2 EUE	60313**	-
16	65.0 - 109.0	14.688 - 15.250	14.438	-	5.00	7" LTC	60316***	-
18-5/8	87.5 - 117.5	17.439 - 17.755	17.000	-	5.00	7" LTC	60318	-
20	133.0 - 169.0	18.376 - 18.730	18.000	-	5.00	7" LTC	60320	-

¹Maximum OD is across retracted drag blocks.

²Drilled for wireline.

** Designed for differential pressures up to 6,000 PSI.

*** Designed for differential pressures up to 5,000 PSI.

ΔDesigned for differential pressures up to 8,000 PSI.

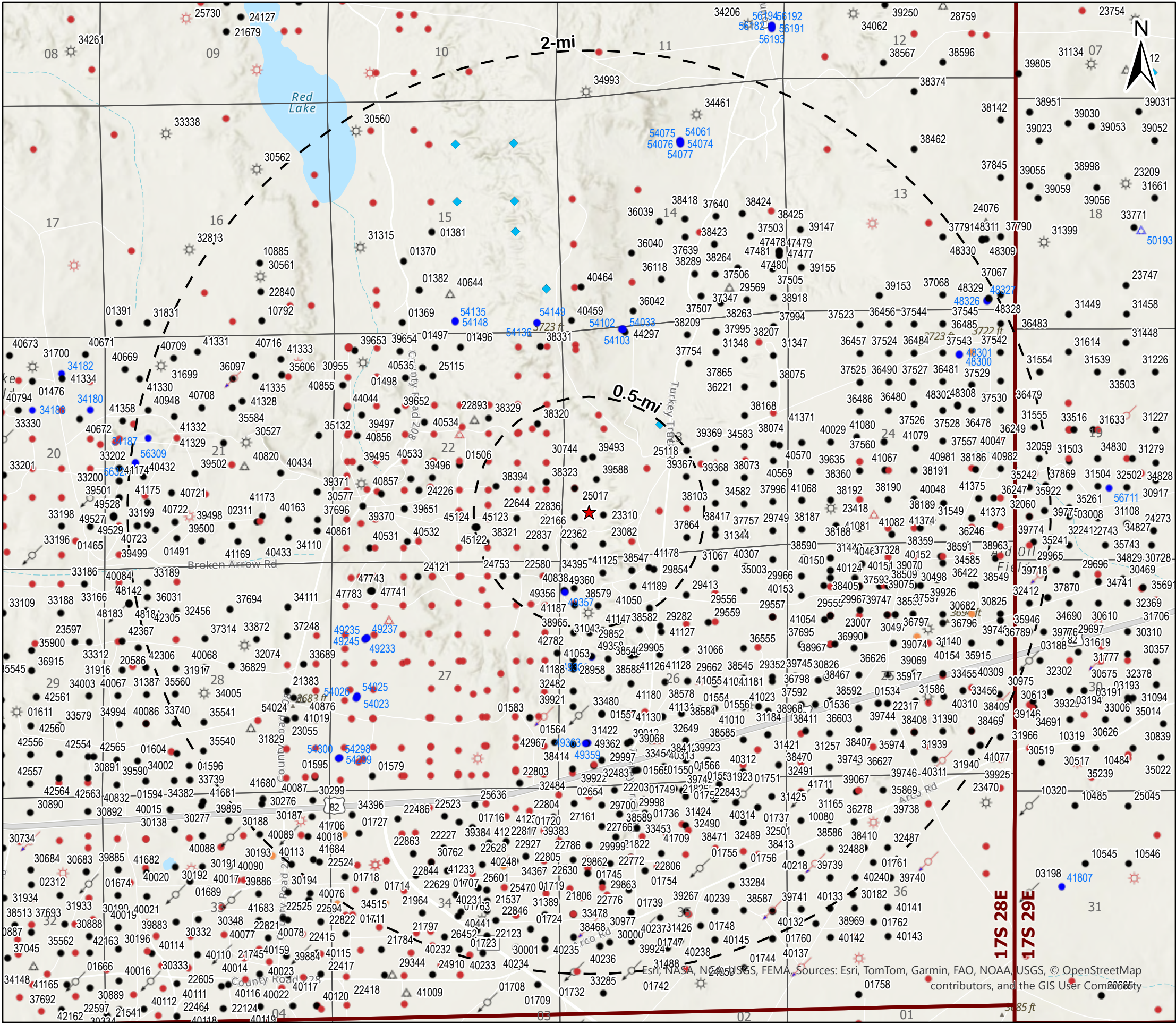
Rubber Trim Upgrade Options (additional cost, inquire with a D&L sales associate): HSN, Viton, ECNER/Aflas, ECNER/HSN, EPDM

NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.

Attachment 2

Area of Review Information:

- 2-mile Production Review Map
- 1/2-mile AOR Well Table
- 2-mile Mineral Lease Map
- 2-mile Mineral Ownership Map
- 2-mile Surface Ownership Map
- Potash Lease Map



Legend

- ★ Site Location
- ⚙ Gas, Active (31)
- ⚙ Gas, Plugged (19)
- 📍 Injection, Active (27)
- 📍 Injection, Plugged (15)
- Oil, Active (787)
- Oil, New (43)
- Oil, Plugged (478)
- Oil, Temporarily Abandoned (12)
- △ Salt Water Injection, Active (12)
- △ Salt Water Injection, New (1)
- △ Salt Water Injection, Plugged (6)
- ◆ Reclamation Fund (9)

2-mile Production Review

DINAH 23 FEDERAL COM SWD #001
EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

September 30, 2025

Mapped by:
Ben Bockelmann

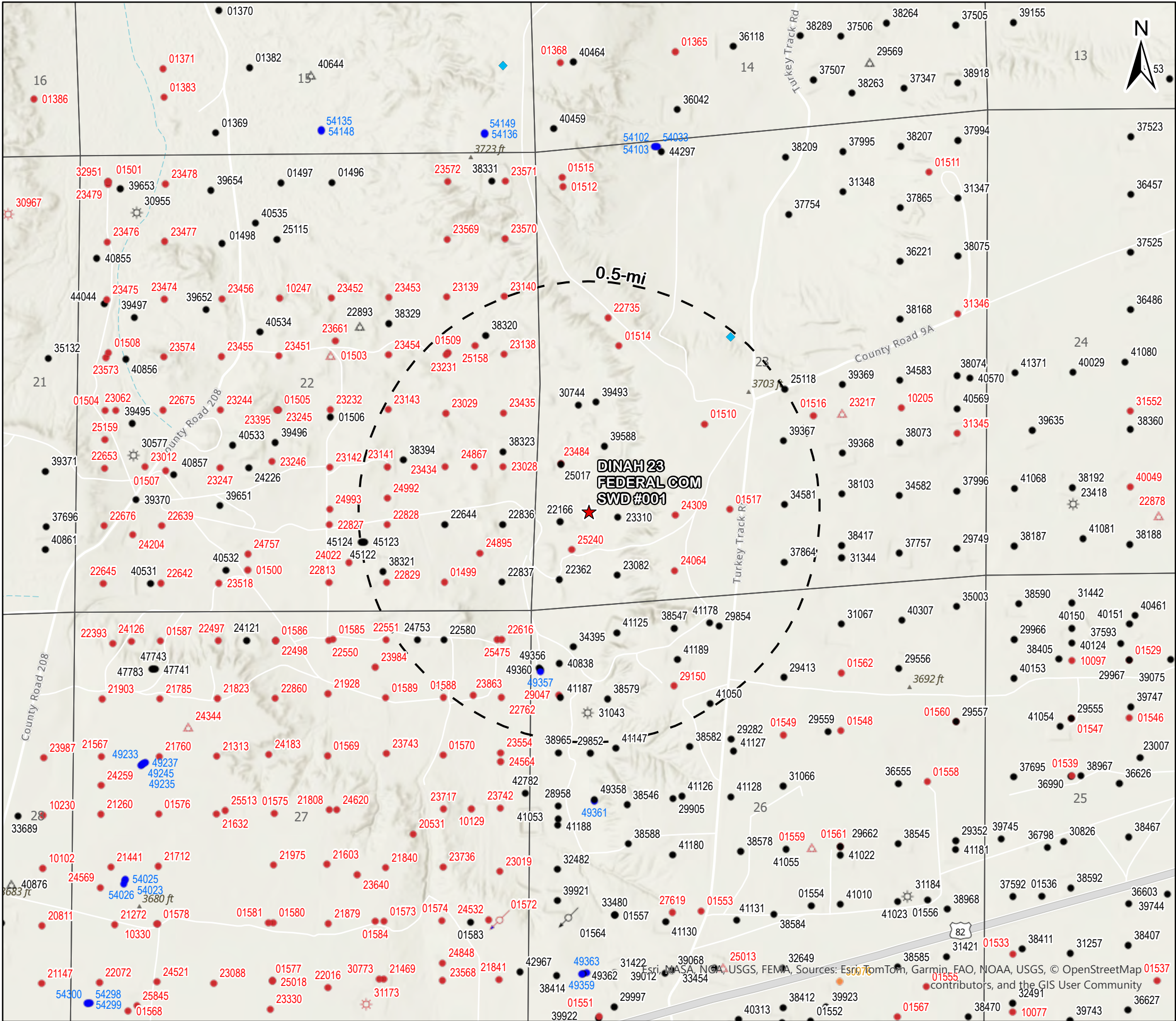
Prepared for:



Prepared by:



Source Info: <https://gis.emnr.nm.gov/arcgis/rest/services/OCDView/Wells/MapServer>



Legend

- ★ Site Location
- ⚙ Gas, Active (5)
- ⚙ Gas, Plugged (2)
- 🔗 Injection, Active (1)
- 🔗 Injection, Plugged (1)
- Oil, Active (234)
- Oil, New (21)
- Oil, Plugged (193)
- Oil, Temporarily Abandoned (1)
- ⚙ Salt Water Injection, Active (4)
- ⚙ Salt Water Injection, Plugged (6)
- ◆ Reclamation Fund (2)

0.5-mile O&G Wells AOR

DINAH 23 FEDERAL COM SWD #001
EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

July 24, 2025

Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:

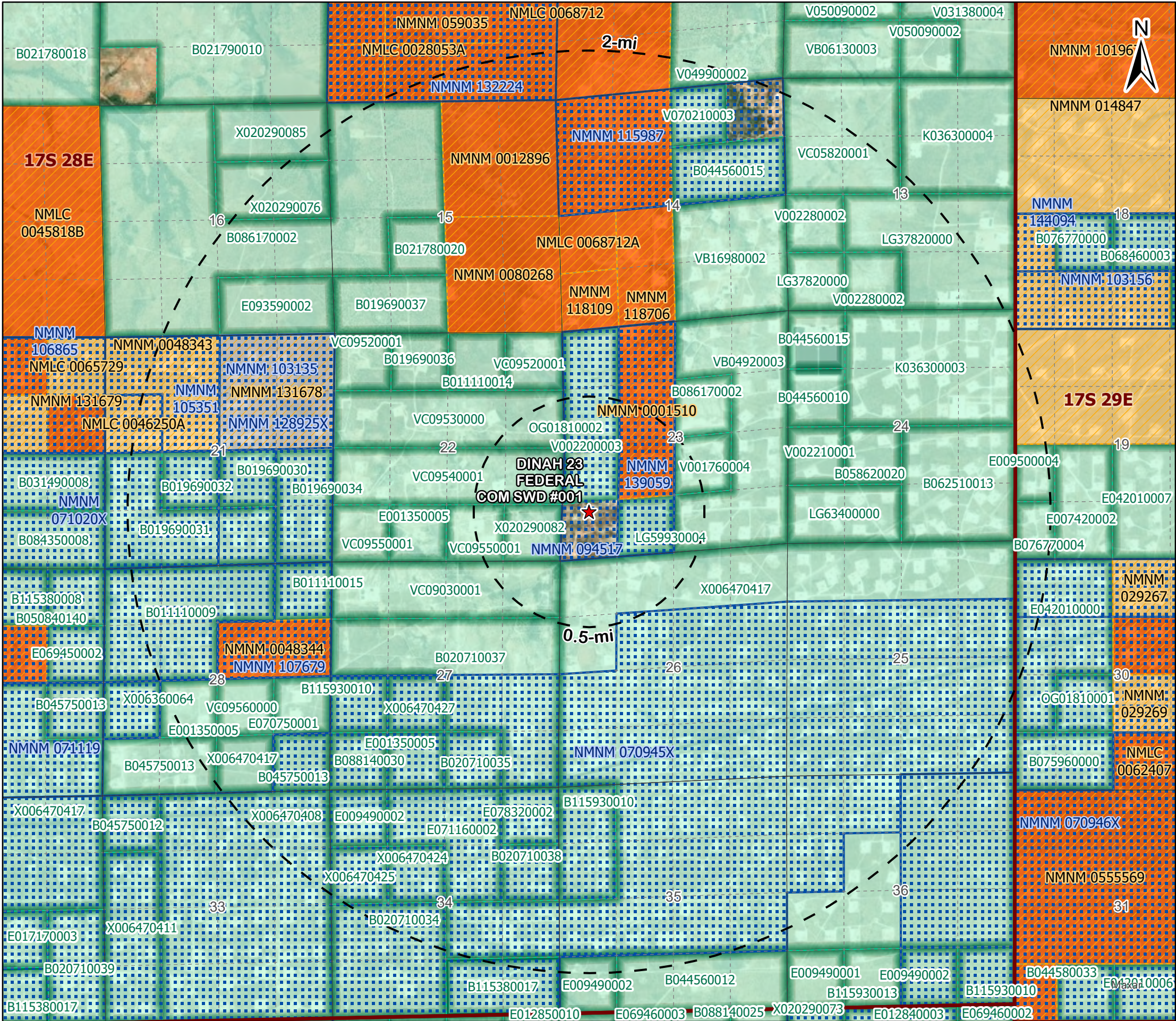


AOR Tabulation for Dinah 23 Fed Com SWD #1 (Cisco and Canyon Formations - Injection Interval: 8,000' - 8,550'), Eddy County							
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
A STATE 062	30-015-41050	GAS	APA CORP	5/13/2013	26-17S-28E	5,809	No
A STATE 044	30-015-38547	GAS	APA CORP	12/29/2012	26-17S-28E	5,718	No
A STATE 063	30-015-41125	GAS	APA CORP	5/21/2013	26-17S-28E	5,915	No
MONCRIEF STATE 001	30-015-25017	OIL	SPUR ENERGY PARTNERS	9/24/1984	23-17S-28E	5,065	No
A STATE 046	30-015-38579	GAS	APA CORP	11/28/2012	26-17S-28E	5,700	No
MONCRIEF STATE 004	30-015-39588	OIL	SPUR ENERGY PARTNERS	7/1/2012	23-17S-28E	5,216	No
A STATE 065	30-015-41178	GAS	APA CORP	5/22/2013	26-17S-28E	5,913	No
A STATE 050	30-015-41189	GAS	APA CORP	5/6/2013	26-17S-28E	5,700	No
MONCRIEF STATE 002	30-015-30744	OIL	SPUR ENERGY PARTNERS	9/8/1999	23-17S-28E	5,000	No
A STATE 061	30-015-40838	GAS	APA CORP	4/22/2013	26-17S-28E	5,701	No
A STATE 064	30-015-41187	GAS	APA CORP	6/5/2013	26-17S-28E	5,927	No
GULF STATE 001	30-015-01499	GAS	PRE-ONGARD WELL OPERATOR	1/23/1960	22-17S-28E	1,996	No
STATE B 1111 022	30-015-01509	OIL	PRE-ONGARD WELL OPERATOR	11/2/1958	22-17S-28E	2,240	No
MALCO 001	30-015-01510	OIL	FI-RO CORPORATION	1/24/1961	23-17S-28E	2,148	No
HONDO FEDERAL 001	30-015-01513	OIL	SELLERS&FULTON OIL LLC	3/14/1962	23-17S-28E	2,152	No
HUMBLE STATE 002	30-015-01514	OIL	V S WELCH	4/12/1962	23-17S-28E	2,178	No
HUMBLE '23' 002	30-015-01517	OIL	PRE-ONGARD WELL OPERATOR	6/4/1962	23-17S-28E	2,112	No
WOLF 001	30-015-22166	OIL	CFM OIL LLC	6/2/1977	23-17S-28E	807	No
WOLF 002	30-015-22362	OIL	CFM OIL LLC	11/25/1977	23-17S-28E	808	No
GILLESPIE STATE 011	30-015-22580	OIL	CFM OIL LLC	6/15/1976	27-17S-28E	789	No
GILLESPIE STATE 012	30-015-22616	OIL	CFM OIL LLC	7/28/1978	27-17S-28E	800	No
GULF FLUSS 001	30-015-22644	OIL	SAMUEL DALE HUGHES DBA HUGHES DRILLING CO.	8/21/1978	22-17S-28E	778	No
LUCAS STORE JZ STATE 001	30-015-22735	OIL	CONOCOPHILLIPS	11/20/1978	23-17S-28E	10,690	Yes
GILLESPIE STATE 013	30-015-22762	OIL	CFM OIL LLC	12/18/1978	27-17S-28E	793	No
STATE B 1969 012	30-015-22828	OIL	CFM OIL LLC	8/9/1979	22-17S-28E	840	No
STATE B 1969 013	30-015-22829	OIL	CFM OIL LLC	3/27/1979	22-17S-28E	807	No
GULF FLUSS 002	30-015-22836	OIL	SAMUEL DALE HUGHES DBA HUGHES DRILLING CO.	4/9/1979	22-17S-28E	800	No
GULF FLUSS 003	30-015-22837	OIL	SAMUEL DALE HUGHES DBA HUGHES DRILLING CO.	10/12/1979	22-17S-28E	851	No
CAMILLE 001	30-015-23028	OIL	SAMUEL DALE HUGHES DBA HUGHES DRILLING CO.	10/15/1979	22-17S-28E	850	No
CAMILLE 002	30-015-23029	OIL	SAMUEL DALE HUGHES DBA HUGHES DRILLING CO.	10/17/1979	22-17S-28E	834	No
GULF-FLUSS 004	30-015-23030	OIL	MACK ENERGY	2/7/2000	22-17S-28E	800	No
WOLF 003	30-015-23082	OIL	CFM OIL LLC	12/3/1979	23-17S-28E	807	No
STATE B 1111 008	30-015-23138	OIL	CFM OIL LLC	3/25/1980	22-17S-28E	855	No
STATE B 1969 014	30-015-23141	OIL	CFM OIL LLC	2/26/1980	22-17S-28E	802	No
STATE B 1969 017	30-015-23143	OIL	CFM OIL LLC	3/16/1980	22-17S-28E	802	No
STATE B 1111 010	30-015-23231	OIL	CFM OIL LLC	3/16/1980	22-17S-28E	810	No
WOLF 004	30-015-23310	OIL	CFM OIL LLC	5/23/1980	23-17S-28E	848	No
CAMILLE 003	30-015-23434	OIL	SAMUEL DALE HUGHES DBA HUGHES DRILLING CO.	9/25/1980	22-17S-28E	830	No
CAMILLE 004	30-015-23435	OIL	SAMUEL DALE HUGHES DBA HUGHES DRILLING CO.	2/5/1981	22-17S-28E	840	No
STATE 23 001	30-015-23484	OIL	PRE-ONGARD WELL OPERATOR	12/8/1980	23-17S-28E	840	No
GILLESPIE STATE 001	30-015-23863	OIL	SPUR ENERGY PARTNERS	Cancelled	27-17S-28E	3,500	No
SRC STATE 001	30-015-24064	OIL	CFM OIL LLC	1/29/1982	23-17S-28E	1,000	No
SRC STATE 001	30-015-24309	OIL	CONOCOPHILLIPS	11/10/1982	23-17S-28E	3,494	No

AOR Tabulation for Dinah 23 Fed Com SWD #1 (Cisco and Canyon Formations - Injection Interval: 8,000' - 8,550'), Eddy County							
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
GILLESPIE STATE 005	30-015-24753	OIL	SPUR ENERGY PARTNERS	3/24/1984	27-17S-28E	3,026	No
COLLIER STATE 013	30-015-24867	OIL	CONOCOPHILLIPS	5/8/1984	22-17S-28E	3,101	No
EDDY AWH STATE 001	30-015-24895	OIL	CONOCOPHILLIPS	7/9/1984	22-17S-28E	2,620	No
COLLIER STATE 014	30-015-24992	OIL	CONOCOPHILLIPS	10/6/1984	22-17S-28E	3,537	No
COLLIER STATE 016	30-015-25158	OIL	CONOCOPHILLIPS	1/13/1985	22-17S-28E	3,565	No
TENNECO FEE 001	30-015-25240	OIL	CONOCOPHILLIPS	4/16/1985	23-17S-28E	3,025	No
GILLESPIE STATE 006	30-015-25475	OIL	SPUR ENERGY PARTNERS	11/28/1985	27-17S-28E	3,080	No
ARCO STATE 26-3 003	30-015-27621	OIL	SDX RESOURCES, INC.	Cancelled	26-17S-28E	3,500	No
ARCO 26 A STATE 003	30-015-29047	OIL	SPUR ENERGY PARTNERS	7/31/1996	26-17S-28E	3,100	No
ARCO 26 A STATE 004	30-015-29150	OIL	CONOCOPHILLIPS	11/4/1996	26-17S-28E	3,402	No
ARCO 26 A STATE 009	30-015-29853	OIL	SDX RESOURCES, INC.	Cancelled	26-17S-28E	3,500	No
ARCO 26 A STATE 010	30-015-29854	OIL	SPUR ENERGY PARTNERS	10/13/1997	26-17S-28E	3,400	No
RIO CINCO 26 STATE 001	30-015-31043	GAS	NORTH FORK OPERATING, LP	4/9/2000	26-17S-28E	10,662	Yes
ARCO 26 A STATE 009	30-015-34395	OIL	SPUR ENERGY PARTNERS	11/30/2005	26-17S-28E	3,500	No
WHITE OAK STATE 007	30-015-34581	OIL	SPUR ENERGY PARTNERS	10/27/2007	23-17S-28E	5,260	No
WHITE OAK STATE 011	30-015-37864	OIL	SPUR ENERGY PARTNERS	12/4/2010	23-17S-28E	5,312	No
MARACAS 22 STATE 001	30-015-38320	GAS	SPUR ENERGY PARTNERS	10/30/2011	22-17S-28E	4,902	No
MAYARO 22 STATE 001	30-015-38321	GAS	SPUR ENERGY PARTNERS	1/28/2012	22-17S-28E	4,856	No
MAYARO 22 STATE 002	30-015-38322	OIL	COTERRA ENERGY	Cancelled	22-17S-28E	5,000	No
MAYARO 22 STATE 003	30-015-38323	GAS	SPUR ENERGY PARTNERS	10/22/2011	22-17S-28E	4,902	No
MAYARO 22 STATE 015	30-015-38328	OIL	COTERRA ENERGY	Cancelled	22-17S-28E	5,000	No
MARACAS 22 STATE 007	30-015-38330	OIL	COTERRA ENERGY	Cancelled	22-17S-28E	5,000	No
MAYARO 22 STATE 004	30-015-38394	GAS	SPUR ENERGY PARTNERS	1/18/2012	22-17S-28E	4,890	No
MAYARO 22 STATE 008	30-015-38395	OIL	COTERRA ENERGY	Cancelled	22-17S-28E	5,010	No
MAYARO 22 STATE 011	30-015-38396	OIL	COTERRA ENERGY	Cancelled	22-17S-28E	5,009	No
MAYARO 22 STATE 016	30-015-38397	OIL	COTERRA ENERGY	Cancelled	22-17S-28E	5,047	No
MARACAS 22 STATE 010	30-015-38441	OIL	COTERRA ENERGY	Cancelled	22-17S-28E	5,028	No
A STATE 050	30-015-38581	OIL	APA CORP	Cancelled	26-17S-28E	5,700	No
MC STATE 003	30-015-39367	OIL	SPUR ENERGY PARTNERS	12/29/2011	23-17S-28E	5,283	No
POOH 27 STATE 002	30-015-39381	OIL	OCCIDENTAL PETROLEUM	Cancelled	27-17S-28E	5,208	No
MONCRIEF STATE 003	30-015-39493	UNKNOWN	SPUR ENERGY PARTNERS	11/14/2011	23-17S-28E	3,833	No
EMPIRE 23 STATE 001	30-015-39799	OIL	CONOCOPHILLIPS	12/3/2014	23-17S-28E	5,250	No
EMPIRE 23 STATE 002	30-015-40653	OIL	CONOCOPHILLIPS	Cancelled	23-17S-28E	5,500	No
EMPIRE 23 STATE 003	30-015-40654	OIL	CONOCOPHILLIPS	Cancelled	23-17S-28E	5,500	No
EMPIRE 23 STATE 004	30-015-40655	OIL	CONOCOPHILLIPS	Cancelled	23-17S-28E	5,500	No
POOH 27 STATE 002	30-015-42154	OIL	OCCIDENTAL PETROLEUM	Cancelled	27-17S-28E	5,200	No
WDW 4 004	30-015-44677	INJECTION	HF SINCLAIR NAVAJO REFINING LLC	5/6/2018	23-17S-28E	11,000	Yes
MAYARO 22 STATE 005	30-015-45122	OIL	SPUR ENERGY PARTNERS	9/15/2018	22-17S-28E	4,894	No
MAYARO 22 STATE 006	30-015-45123	OIL	SPUR ENERGY PARTNERS	9/7/2018	22-17S-28E	4,949	No
MAYARO 22 STATE 007	30-015-45124	OIL	SPUR ENERGY PARTNERS	9/21/2018	22-17S-28E	4,898	No
HALBERD 27 STATE COM 002H	30-015-49356	OIL	SPUR ENERGY PARTNERS	4/6/2022	26-17S-28E	3,549	No
HALBERD 27 STATE COM 020H	30-015-49357	OIL	SPUR ENERGY PARTNERS	4/1/2022	26-17S-28E	3,737	No
HALBERD 27 STATE COM 070H	30-015-49360	OIL	SPUR ENERGY PARTNERS	4/4/2022	26-17S-28E	4,323	No

AOR Tabulation for Dinah 23 Fed Com SWD #1 (Cisco and Canyon Formations - Injection Interval: 8,000' - 8,550'), Eddy County							
Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
Note: Three wells in the 1/2-mi AOR penetrate the proposed Cisco-Canyon injection interval.							

Casing / Plugging Information for Wells Penetrating the Dinah 23 Fed Com SWD #1 Injection Zone							
Well Name	Type	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
LUCAS STORE JZ STATE 001 30-015-22735	Surface	414'	13.375"	Surface	Circulation	375	17.5"
	Production	2,256'	8.625"	Surface	Circulation	1050	12.25"
	Plugging Details: Plugs from: 10,350' - 10,250' w/ 35 sx, 9,200' - 9,050' w/ 50 sx, 7,950' - 7,850' w/ 35 sx, 6,970' - 6,820' w/ 50 sx, 5,930' - 5,830' w/ 35 sx, 3,920' - 3,720' w/ 70 sx, 2,650' - 2,500' w/ 50sx, 2,300' - 2,200' w/ 50 sx, 10' - surface w/ 5 sx.						
RIO CINCO 26 STATE 001 30-015-31043	Surface	435'	13.375"	Surface	Circulation	380	17.5"
	Intermediate	2,192'	9.625"	Surface	Circulation	870	12.25"
	Production	10,620'	5.5"	Surface	Circulation	1500	8.75"
WDW 4 004 30-015-44677	Conductor	80'	20"	Surface	N/A	N/A	N/A
	Surface	1,680'	13.375"	Surface	N/A	721	17.5"
	Production	10,327'	9.625"	Surface	N/A	2173	12.25"



Legend

- ★ Site Location
- NMSLO Mineral Leases
- BLM Communitization Units

BLM O&G Leases

Case Disposition

- Authorized

Production Status

- Held by Actual Production
- Held by Allocated Production
- Non-Producing

1/2-mile Affected Parties AOR

BLM Unit Operators:

- APACHE CORPORATION
- SPUR ENERGY PARTNERS LLC

BLM Lessees:

- FASKEN ACQUISITIONS 02 LTD

NMSLO Lessees:

- SEP PERMIAN LLC
- SILVERBACK O-1, LLC
- WPX ENERGY PERMIAN, LLC
- XTO HOLDINGS, LLC

2-mile Mineral Lease AOR

DINAH 23 FEDERAL COM SWD #001
EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

June 27, 2025

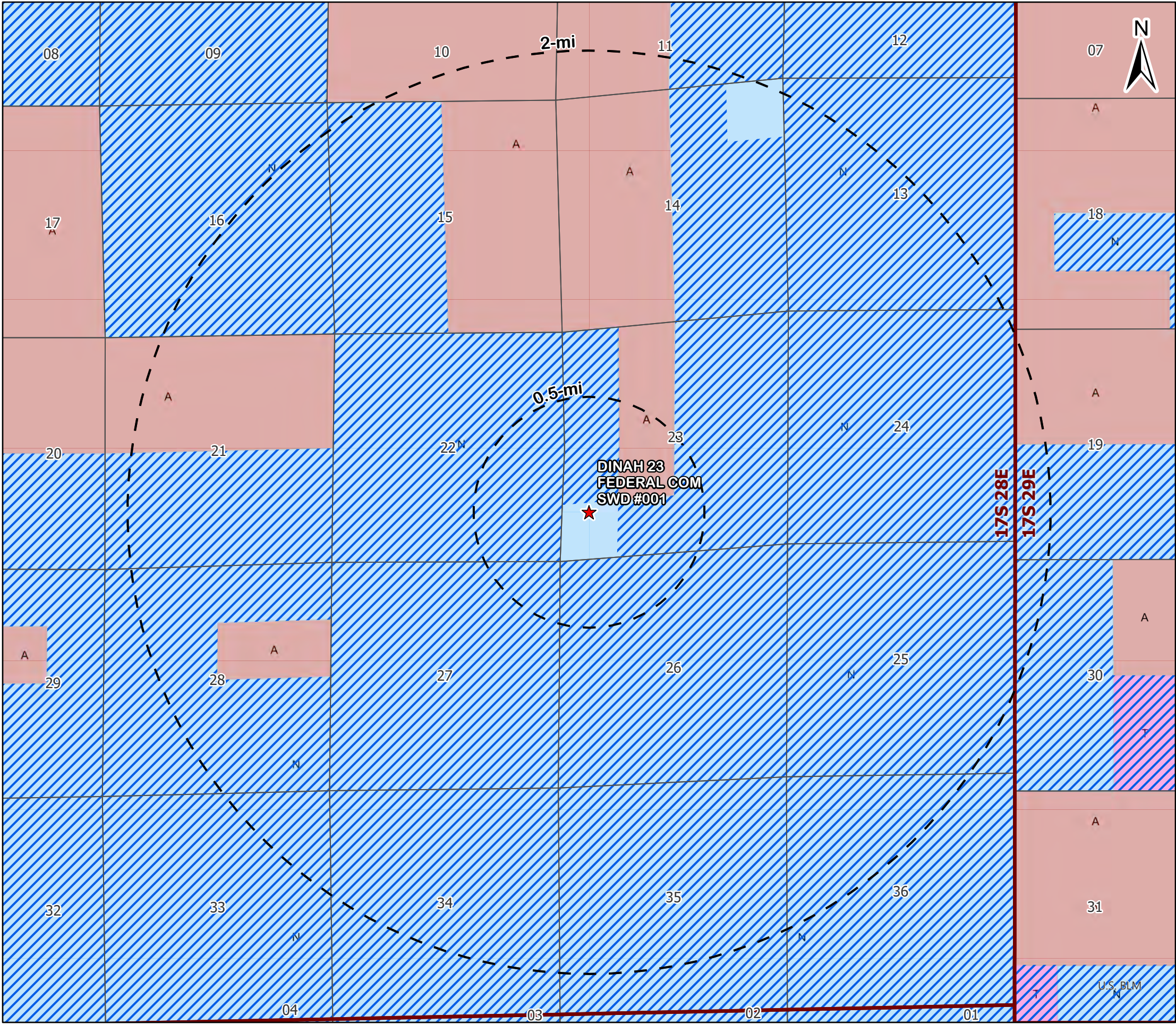
Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:





Legend

★ Site Location

NMSLO Ownership

Subsurface minerals (NMSLO)

Mineral Ownership

A-All minerals are owned by U.S.

N-No minerals are owned by the U.S.

T-Other minerals are owned by the U.S.

2-mile Mineral Ownership AOR

DINAH 23 FEDERAL COM SWD #001
EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

June 27, 2025

Mapped by:
Ben Bockelmann

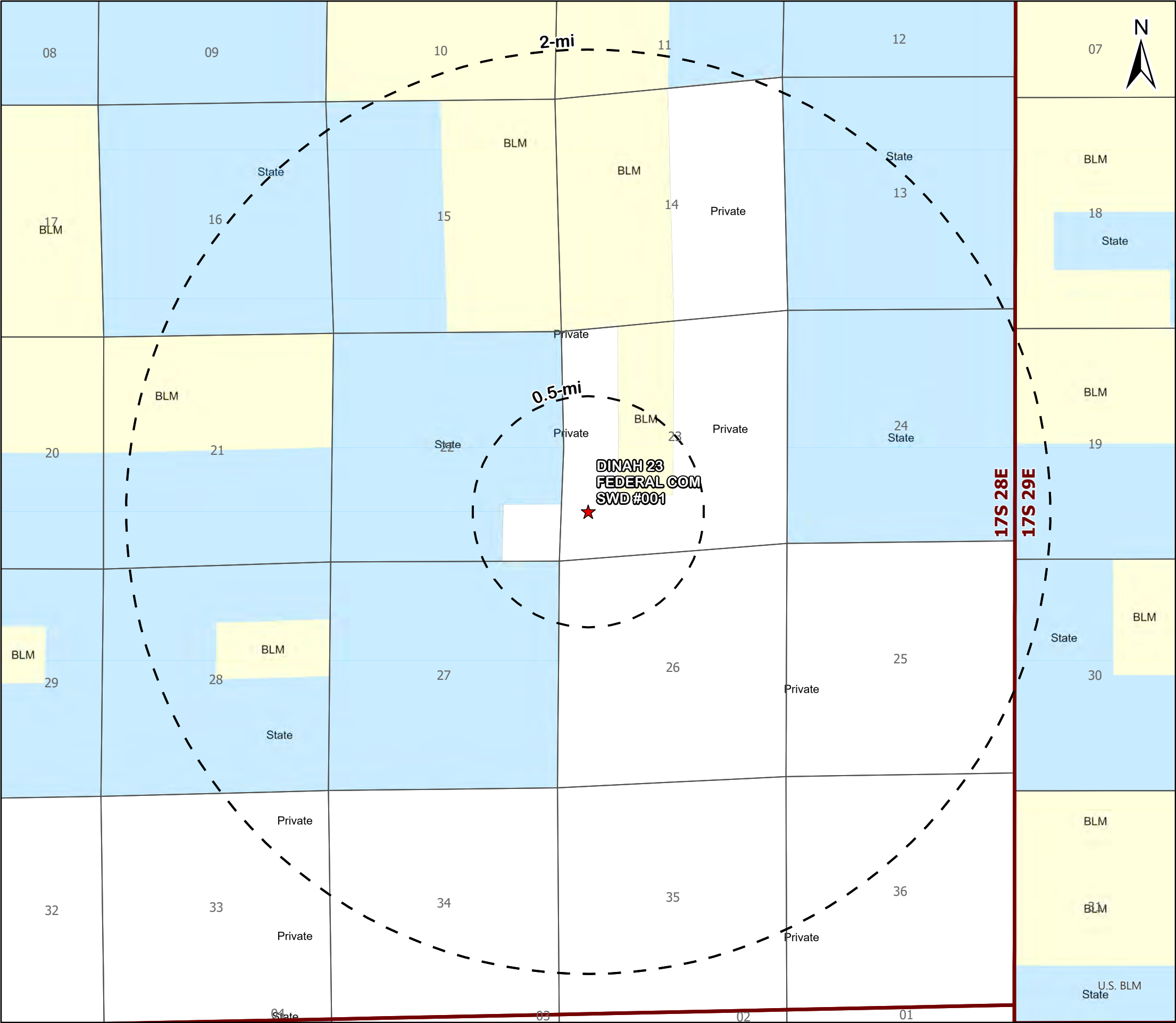
Prepared for:



Prepared by:



Source Info: BLM Surface Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership>)



Legend

★ Site Location

Land Ownership

BLM

P

S

2-mile Surface Ownership AOR

DINAH 23 FEDERAL COM SWD #001
EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

June 27, 2025

Mapped by:
Ben Bockelmann

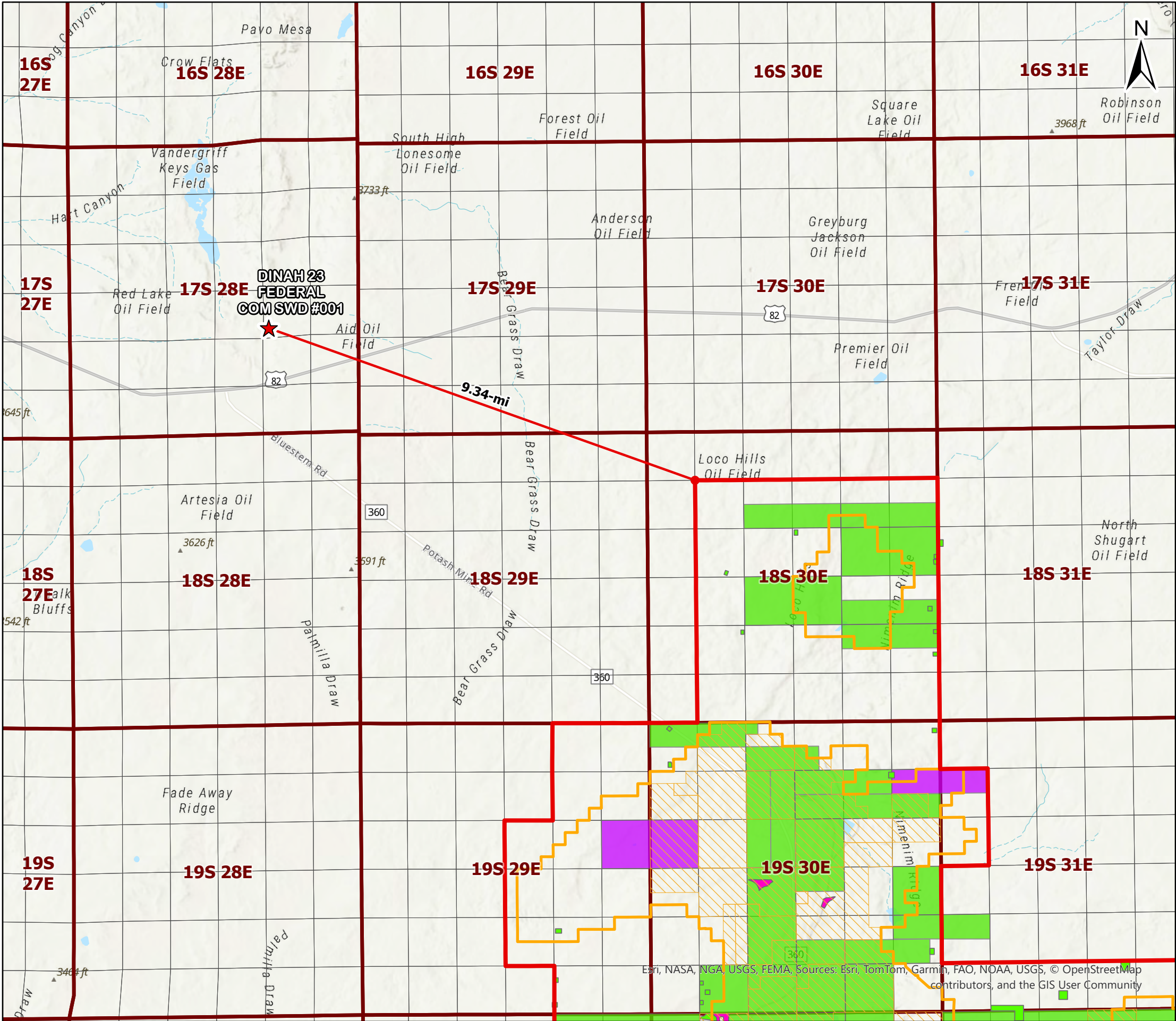
Prepared for:



Prepared by:



Source Info: BLM Surface Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership>)



Legend

- ★ Site Location
- SOPA 1986
- Known Potash Leasing Area
- Intrepid and Mosaic Potash Leases

DRILL ISLANDS 2024-06-18

Status,Depth_Buff

- Approved,Half Mile
- Approved,Quarter Mile

Potash Lease AOR

DINAH 23 FEDERAL COM SWD #1
EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

June 27, 2025

Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:



Attachment 3
Source Water Analyses

Source Water Analysis																	
Spur Energy Partners, LLC - Dinah 23 Fed Com SWD #1 (Glorieta/Yeso, Bone Spring Formations)																	
Well Name	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgns	Ftgew	County	State	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)	H2S (mg/L)
PLATT PA #004	3001500246	32.7132645	-104.3597565	26	18S	26E	M	660S	485W	EDDY	NM	GLORIETA/YESO	153,908	137,000	348	3,360	5
PLATT PA #005	3001523906	32.7177811	-104.355957	26	18S	26E	K	2310S	1650W	EDDY	NM	GLORIETA/YESO	146,904	132,000	444	3,360	2
MALLARD HM #001	3001500254	32.7161865	-104.3924866	28	18S	26E	L	1650S	990W	EDDY	NM	GLORIETA/YESO	203,529	121,410	464	2,500	15
BIG EDDY UNIT #012	3001520225	32.564312	-103.8806076	21	20S	31E	D	660N	660W	EDDY	NM	BONE SPRING	181,697	123,750	14	788	0

Attachment 4

Injection Formation Water Analyses

Injection Formation Water Analysis																	
Spur Energy Partners, LLC - Dinah 23 Fed Com #1 (Cisco-Canyon Formations)																	
Well Name	API	Latitude	Longitude	Section	Township	Range	Unit	Ftgs	Ftgew	County	State	Formation	Tds (mg/L)	Chloride (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)	H2S (mg/L)
HILLVIEW AHE FEDERAL COM #011	3001526810	32.5568657	-104.5612259	23	20S	24E	K	1830S	1980W	EDDY	NM	CANYON	No Data	46,860	1,074	13	2
INDIAN HILLS UNIT #001	3001510066	32.4588356	-104.5109787	21	21S	24E	M	416S	176W	EDDY	NM	CANYON	10,739	4,862	816	1,803	No Data
SEVEN RIVERS LS #001	3001500130	32.5179291	-104.4112167	5	21S	25E	H	1658N	657E	EDDY	NM	CANYON	10,371	4,674	538	1,420	No Data

Attachment 5

Reservoir Characterization

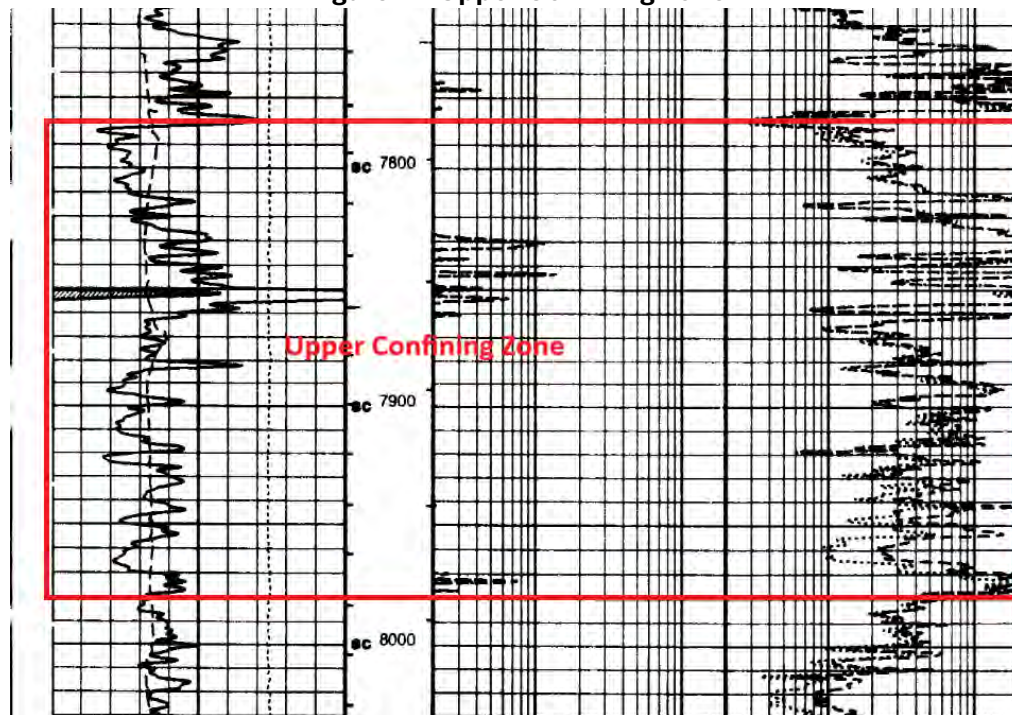
Reservoir Characterization at the Dinah 23 Fed Com SWD #1**1. Injection Formation and Confinement****a. Injection Formation**

The proposed injection interval includes the Cisco and Canyon Formations (Cisco-Canyon) from 8,000' – 8,550'. The Pennsylvanian-aged Canyon Formation consists of interbedded carbonate rocks including dolomites and limestones, with sections of porous and permeable sandstone interbedded. There are multiple zones of high porosity and low resistivity that makes this formation a viable injection zone in this area.

b. Upper Confinement

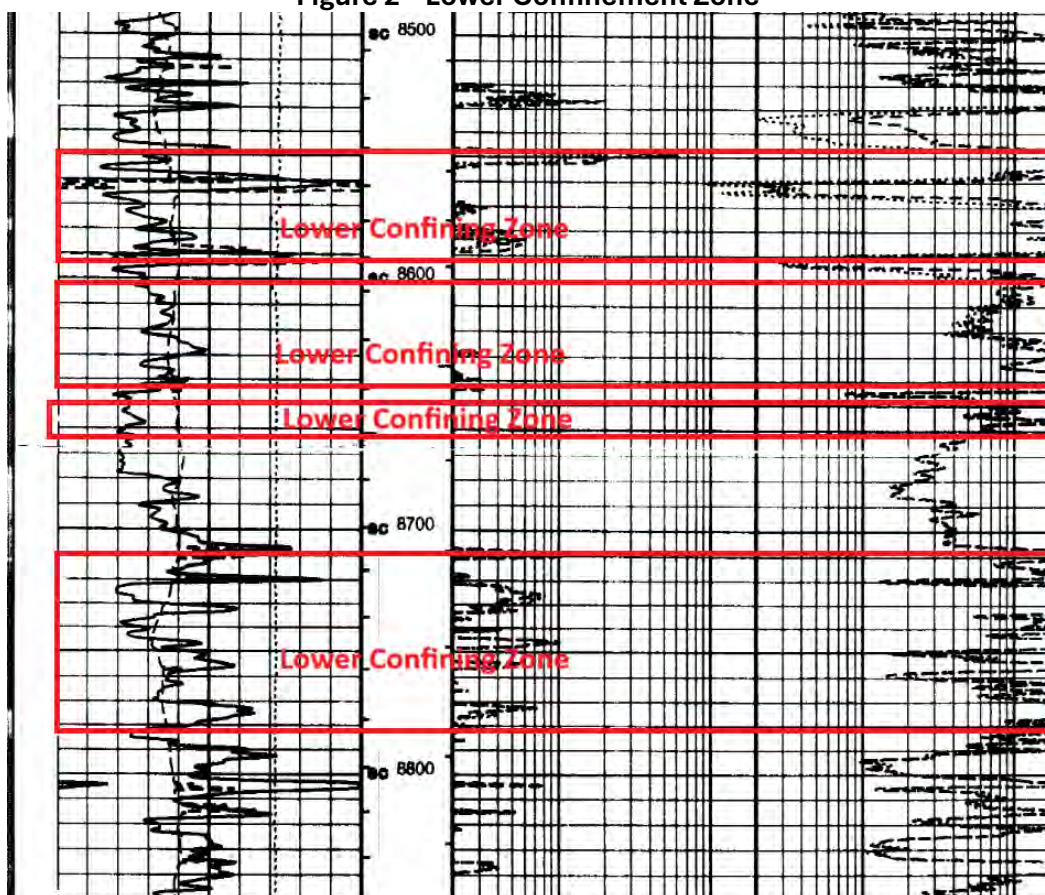
Nearby open hole geophysical well logs indicate the proposed Cisco-Canyon injection interval is overlain by approximately 200 feet of low porosity and low permeability carbonate rocks within the upper Cisco-Canyon and overlying Wolfcamp which will act as the upper confining layer. Below is a log demonstrating the high resistivity upper confinement zone.

Figure 1 – Upper Confining Zone

**c. Lower Confinement**

Nearby open hole geophysical well logs indicate the proposed Canyon Formation injection interval is underlain by approximately 170 feet of low porosity and low permeability carbonate rocks within the lower Canyon Formation, which will prevent the downward migration of fluid and act as the lower confining layer. Below is a log demonstrating the high resistivity lower confinement zone.

Figure 2 – Lower Confinement Zone



2. Historic Field Usage

a. Offset Production

A review of all wells in the NMOCD database within a 2-mile radius of the Dinah 23 Fed Com SWD #1 does not show any current hydrocarbon production from the Cisco-Canyon.

b. Commercial Water Sources

A review of all wells in the NMOCD and OSE databases within a 2-mile radius of the Dinah 23 Fed Com SWD #1 does not show any historic or current commercial water supply sources from the Cisco-Canyon Formation.

c. Enhanced Oil Recovery

A review of all wells in the NMOCD database within a 2-mile radius of the Dinah 23 Fed Com SWD #1 does not show any historic or current enhanced oil recovery operations utilizing the overlying Wolfcamp Formation or the underlying Strawn Formation.

Attachment 6

Induced Seismicity Assessment Letter



September 25, 2025

PN 1842.T4.00

Mr. Phillip Goetze, P.G.
NM EMNRD – Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Subject: **Spur Energy Partners LLC**
Dinah 23 Fed Com SWD #1 - Seismic Potential Letter

Dear Mr. Goetze,

At the request of Spur Energy Partners, LLC (Spur), ALL Consulting, LLC (ALL) has assessed the potential injection-induced seismicity risks in the vicinity of Spur's Dinah 23 Fed Com SWD #1, a proposed saltwater disposal (SWD) facility in Eddy County, New Mexico, and summarized the findings in this letter. This assessment used publicly available data to identify the proximity and characteristics of seismic events and known faults to evaluate the potential for the operation of the Dinah 23 Fed Com SWD #1 to contribute to seismic activity in the area.

Geologic Evaluation

The Dinah 23 Fed Com SWD #1 is requesting a permit to inject into the Cisco and Canyon formations (Cisco-Canyon) at a depth of 8,000' – 8,550' feet below ground surface (bgs). The Pennsylvanian Cisco-Canyon consist of interbedded carbonate rocks including shales, dolomites, and limestones. The proposed injection interval is overlain by more than 200 feet of tight carbonate rocks within the Wolfcamp which will act as the upper confining layer (see **Reservoir Characterization Section of C-108**). Additionally, the proposed injection interval is underlain by approximately 160 feet of various low porosity and permeability zones within the lower Cisco-Canyon that will prevent downward migration. A stratigraphic chart depicting the geologic setting is included as **Figure 1**.¹

¹ Yang, K.-M., & Dorobek, S. L. (1995). The Permian Basin of west Texas and New Mexico: Tectonic history of a "composite" Foreland Basin and its effects on stratigraphic development. *Stratigraphic Evolution of Foreland Basins*, 149–174. <https://doi.org/10.2110/pec.95.52.0149>

Spur Energy Partners, LLC
Dinah 23 Fed Com SWD #1 Seismic Potential Letter
September 25, 2025

Seismic Events and Fault Data

A review of United States Geological Survey (USGS) and New Mexico Tech Seismological Observatory (NMTSO) earthquake catalogues determined that the closest recorded seismic event was a M1.14 that occurred on January 29, 2018, and was located approximately 1.62 miles southeast of the Dinah 23 Fed Com SWD #1 (see **Attachment 1**). **Per the USGS earthquake catalog, no seismic events M2.5 or greater have been recorded within 10 miles of the Dinah 23 Fed Com SWD #1.**

Fault data from United States Geological Survey (USGS) and the Texas Bureau of Economic Geology (BEG)² indicates that the closest known fault is located approximately 9.89 miles southwest of the Dinah 23 Fed Com SWD #1 (see **Attachment 1**). This identified fault is within the Precambrian basement, which is approximately 4,950 feet below the proposed injection interval.³ **Six Precambrian basement faults were identified within 10 miles of the Dinah 23 Fed Com SWD #1.** A map of the seismic events and faults within 10 miles of the Dinah 23 Fed Com SWD #1 is included as **Attachment 1**.

**Figure 1 – Delaware Basin Stratigraphic Chart
(Adapted from Yang and Dorobek 1995)**

SYSTEM	SERIES/ STAGE	CENTRAL BASIN PLATFORM	DELAWARE BASIN
PERMIAN	OCHOAN	DEWEY LAKE RUSTLER SALADO	DEWEY LAKE RUSTLER SALADO CASTILE
	GUADALUPIAN	TANSILL YATES SEVEN RIVERS QUEEN GRAYBURG SAN ANDRES GLORIETA	DELAWARE MT GROUP BELL CANYON CHERRY CANYON BRUSHY CANYON
	LEONARDIAN	CLEAR FORK WICHITA	BONE SPRING
	WOLFCAMPIAN	WOLFCAMP	WOLFCAMP
PENNSYLVANIAN	VIRGILIAN	CISCO	CISCO
	MISSOURIAN	CANYON	CANYON
	DESMOINESIAN	STRAWN	STRAWN
	ATOKAN	ATOKA	ATOKA
	MORROWAN	(ABSENT)	MORROW
MISSISSIPPIAN	CHESTERIAN MERAMECIAN OSAGEAN KINDERHOOKIAN	CHESTER MERAMEC OSAGE KINDERHOOK WOODFORD DEVONIAN	CHESTER MERAMEC OSAGE KINDERHOOK WOODFORD DEVONIAN
DEVONIAN			
SILURIAN		SILURIAN SHALE FUSSELMAN	MIDDLE SILURIAN FUSSELMAN
ORDOVICIAN	UPPER	MONTOYA	SYLVAN MONTOYA
	MIDDLE	SIMPSON	SIMPSON
	LOWER	ELLENBURGER	ELLENBURGER
CAMBRIAN	UPPER	CAMBRIAN	CAMBRIAN
PRECAMBRIAN			

Seismic Potential Evaluation

Experience in evaluating induced seismic events indicates that most injection-induced seismicity throughout the U.S. (e.g., Oklahoma, Ohio, Texas, New Mexico, and Colorado) occurs as a result of injection into Precambrian basement rock, into overlying formations that are in hydraulic communication with the Precambrian basement rock, or as a result of injection near critically stressed and optimally oriented faults. Seismicity at basement depths occurs because critically stressed faults generally originate in crystalline basement rock and may also extend into overlying sedimentary formations.⁴

² Horne E. A. Hennings P. H., and Zahm C. K. 2021. Basement structure of the Delaware Basin, in The Geologic Basement of Texas: A Volume in Honor of Peter Flawn, Callahan O. A., and Eichubl P., The University of Texas at Austin, Bureau of Economic Geology.

³ G. Randy Keller, J. M. Hills & Rabah Djeddi, A regional geological and geophysical study of the Delaware Basin, New Mexico and West Texas, Trans Pecos Region (West Texas) (1980).

⁴ Ground Water Protection Council and Interstate Oil and Gas Compact Commission. *Potential Injection-Induced Seismicity Associated with Oil & Gas Development: A Primer on Technical and Regulatory Considerations Informing Risk Management and Mitigation*. 2015. 141 pages.

Spur Energy Partners, LLC
Dinah 23 Fed Com SWD #1 Seismic Potential Letter
September 25, 2025

Injection into either the Precambrian basement rock or its overlying formations that are hydraulically connected to the basement rock through faulting or fracture networks can increase the pore pressure and may lead to the fault slipping, resulting in a seismic event.⁴ As such, the vertical distance between the injection formation and Precambrian basement rock and the presence or lack of faulting within the injection interval are major considerations when determining the risk of injection-induced seismicity.

Per the NMTSO seismic catalog, the nearest reported event was a M1.14 which occurred on January 29, 2018, at 5.00 km depth. The default reported depth of 5.00 km indicates the seismic network in the area is not dense enough to accurately report hypocenter depths. Based on the proximity to a seismic response area, it is likely that the nearest events occurred in the Precambrian basement far below the proposed injection interval.

Depth to Precambrian Basement

Geophysical data from nearby well records, aeromagnetic surveys, and gravity surveys indicates the top of the Precambrian Basement to be approximately 13,500 feet bgs at the Dinah 23 Fed Com SWD #1, or approximately 4,950 feet below the proposed injection interval.³ **There are insufficient Precambrian basement penetrations and/or public well data regarding Precambrian basement depth to generate an accurate structural contour map of the Precambrian basement in the vicinity of the Dinah 23 Fed Com SWD #1.**

Formation Parting Pressure

Class II SWDs in New Mexico are administratively permitted with a maximum pressure gradient of 0.2 psi/ft. Review of New Mexico Oil Conservation Division (NMOCD) Order IPI-547 from a nearby Canyon SWD, located approximately 19.1 miles southwest of the Dinah 23 Fed Com SWD #1, determined the fracture gradient of the Canyon Formation in the region to be approximately 0.256 psi/ft based on approved step-rate testing. Typical SWD permitting standards in New Mexico would indicate that formation parting pressure will not be exceeded by the Dinah 23 Fed Com SWD #1.

Conclusion

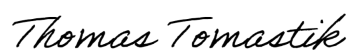
As experts on the issue of induced seismicity, seismic monitoring, and mitigation, it is our expert opinion that the potential for the Dinah 23 Fed Com SWD #1 to cause injection-induced seismicity is expected to be minimal, at best. This conclusion assumes the Dinah 23 Fed Com SWD #1 will be operated under formation parting pressure and is based on (1) the presence of numerous confining layers above and below the proposed injection interval, (2) the significant vertical and lateral distance between the proposed injection interval and Precambrian basement rock in which the nearest fault has been identified, and (3) the lack of historic shallow seismicity in proximity to the Dinah 23 Fed Com SWD #1.

Sincerely,
ALL Consulting

Spur Energy Partners, LLC
Dinah 23 Fed Com SWD #1 Seismic Potential Letter
September 25, 2025

A handwritten signature in black ink, appearing to read "Reed Davis". The signature is fluid and cursive, with the first name "Reed" and last name "Davis" clearly distinguishable.

Reed Davis
Geophysicist

A handwritten signature in black ink, appearing to read "Thomas Tomastik". The signature is written in a cursive style, with the first name "Thomas" and last name "Tomastik" clearly distinguishable.

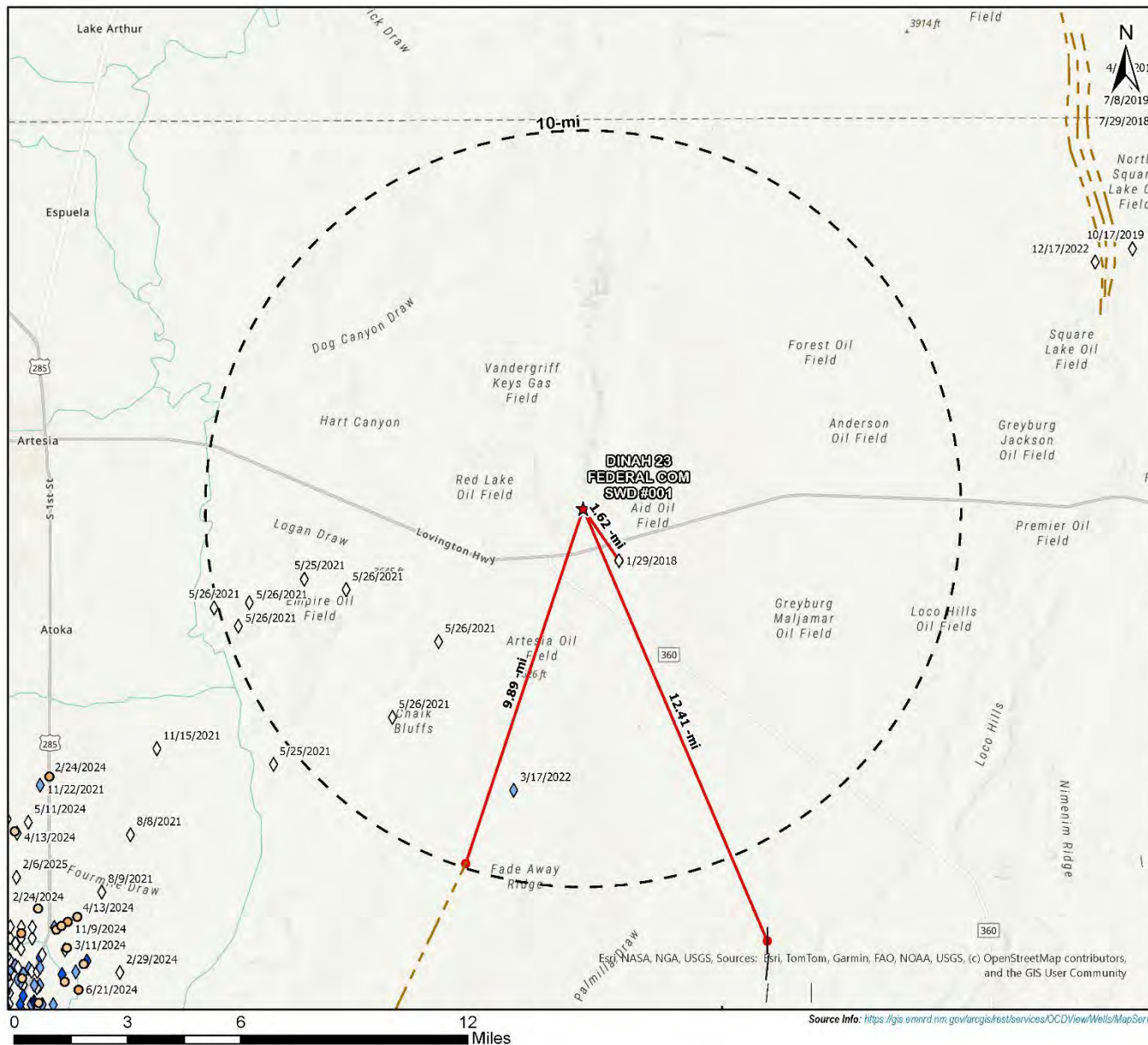
Thomas Tomastik
Chief Geologist

Spur Energy Partners, LLC
Dinah 23 Fed Com SWD #1 Seismic Potential Letter
September 25, 2025

Attachment 1
Seismic Event Map

Spur Energy Partners, LLC
Dinah 23 Fed Com SWD #1 Seismic Potential Letter
September 25, 2025

Dinah 23 Fed Com SWD #1 Nearby Seismic Events and Faults



Legend

- ★ Site Location
- Shallow Faults
- Deep Faults

Stress Orientations (Lund, Snee, Zoback 2020)

Indicator, Quality

- Wellbore, A (3)
- Wellbore, B (2)
- Wellbore, C (1)

USGS Seismic Events - 8/8/2025

Magnitude

- 0.8 - 2.0 (0)
- 2.1 - 3.0 (11)
- 3.1 - 4.0 (5)
- 4.1 - 4.6 (0)

NMTSO Seismic Events - 9/11/2025

Magnitude

- ◇ 0 - 2.0 (51)
- ◇ 2.1 - 3.0 (21)
- ◇ 3.1 - 4.0 (5)
- ◇ 4.1 - 4.5 (1)

Seismic Analysis AOR

DINAH 23 FEDERAL COM SWD #001 EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

September 25, 2025

Mapped by:
Ben Bockelmann

Prepared for:

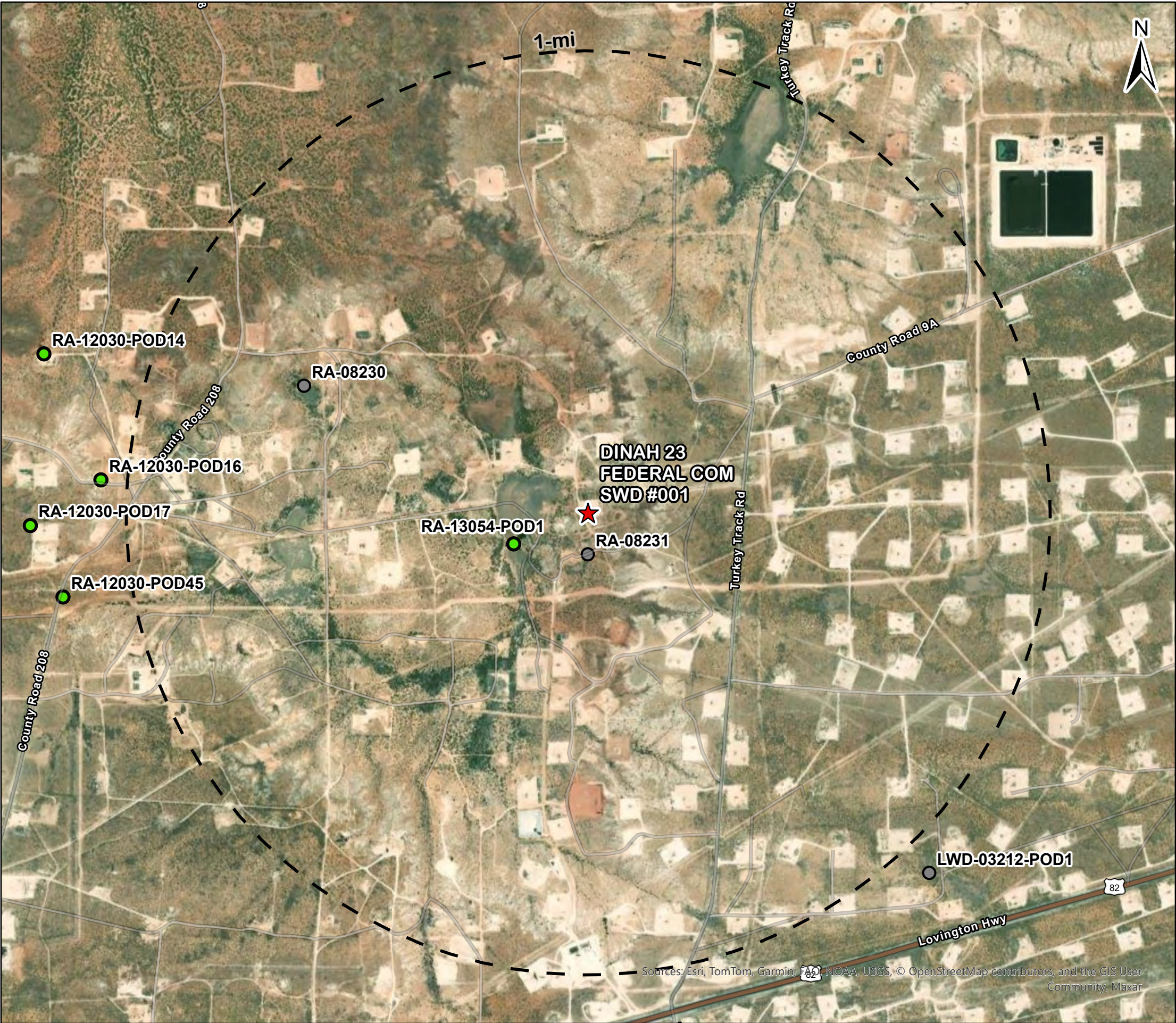
SPUR
ENERGY
PARTNERS

Prepared by:

ALL CONSULTING

Attachment 7

Water Well Map and Well Data



Legend

★ Site Location (1)

OSE Water PODs

POD Status

- Active (0)
- Pending (5)
- Changed Location of Well (0)
- Inactive (0)
- Capped (0)
- Plugged (0)
- Unknown (3)

1-mile Water Well AOR

DINAH 23 FEDERAL COM SWD #001
EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

June 27, 2025

Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:



Water Well Sampling Rationale					
Spur Energy Partners, LLC - Dinah 23 Fed Com #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
RA 08230	Bogle Farms	No available contact information	Livestock Watering	Yes, conditional to owners appoval.	Contacted owner through website contact portal for access approval and a response is awaited. Sampling will be planned once a reply is received.
RA 08231	Bogle Farms	No available contact information	Livestock Watering	Yes, conditional to owners appoval.	Contacted owner through website contact portal for access approval and a response is awaited. Sampling will be planned once a reply is received.
RA 13054 - POD1	Key Livestock LLC	Gary Key 575-623-6537 1012 E 2nd St Roswell, NM 88201	Livestock Watering	Yes, conditional to owners appoval.	Contacted owner through phone call and email for access approval and a response is awaited. Sampling will be planned once a reply is received.

Attachment 8

No Hydrologic Connection Statement



RE: Spur Energy Partners LLC – Dinah Federal 23 Com SWD #1 application, Eddy County, New Mexico

ALL Consulting LLC (ALL) has performed a thorough hydrologic investigation related to the one saltwater disposal well (SWD) listed above. The investigation was conducted to determine if there were any existing or potential connections between the proposed injection zone into the Cisco-Canyon formations 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. The area's surficial geology is Quaternary alluvial deposits consisting predominantly of sand and silt deposits. In this area the depths of potable water for stock and domestic supplies are less than 175 feet below the surface. The USDW is the Rustler Formation and the base of the USDW plus 25 feet into the anhydrite unit is approximately 560 feet below the surface.

Based on ALL's assessment and analysis there is containment through multiple confining zones above the proposed Cisco-Canyon injection zone and the USDW and over 7,650 feet of vertical separation between the base of the USDW and the top of the injection interval. Additionally, there is no evidence of faults that would allow for communication between the USDW and Cisco- Canyon injection zone.

Tom Tomastik

September 24, 2025

Tom Tomastik

Date

Chief Geologist and Regulatory Specialist

ALL Consulting LLC

Attachment 9

Public Notice Affidavit and Notice of Application Confirmation

DINAH 23 FEDERAL COM SWD #1 - NOTICE OF APPLICATION RECIPIENTS						
LEASE ID	ENTITY	ADDRESS	CITY	STATE	ZIP	INTEREST RELATIONSHIP
N/A	NEW MEXICO OIL CONSERVATION DISTRICT 1	1625 N FRENCH DRIVE	HOBBS	NM	88220	NMOCD DISTRICT OFFICE
N/A	NEW MEXICO STATE LAND OFFICE	310 OLD SANTA FE TRAIL	SANTA FE	NM	87501	PRIVATE SURFACE OWNER
NMNM 070945X	APACHE CORPORATION	2000 W SAM HOUSTON PKWY S STE 200	HOUSTON	TX	77042	BLM UNIT OPERATOR
NMNM 0001510	FASKEN ACQUISITIONS 02 LTD	6101 HOLIDAY HILL RD	MIDLAND	TX	79707-1631	BLM LESSEE
B020710037	SEP PERMIAN LLC	9655 KATY FREEWAY STE 500	HOUSTON	TX	77024	NMSLO LESSEE / PRIVATE MINERAL OWNER / BLM UNIT OPERATOR
LG59930004						
V001760004						
V002200003						
VB04920003						
VC09030001						
VC09530000						
VC09540001						
VC09550001						
X020290082						
B086170002	SILVERBACK O-1, LLC	1001 W WILSHIRE BLVD STE 206	OKLAHOMA CITY	OK	73112	NMSLO LESSEE
X006470417	WPX ENERGY PERMIAN, LLC.	333 WEST SHERIDAN AVE	OKLAHOMA CITY	OK	73102	NMSLO LESSEE
OG01810002	XTO HOLDINGS, LLC	810 HOUSTON ST	MIDLAND	TX	76102	NMSLO LESSEE
Note: The affected parties above received notification of this C-108 application. BLM Unit Operators and Lessee information was retrieved from BLM MLRS (https://mlrs.blm.gov/s/). NMSLO Lessee information retrieved from NMOCD Operator Search (https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/Operators/Search/OperatorSearch.aspx).						

APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That Spur Energy Partners, LLC, 9655 Katy Freeway, Ste.500, Houston, Texas 77024, 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: Dinah 23 Federal Com SWD #1
Located 14.29 miles east of Artesia, NM
SW ¼ SW ¼, Section 23, Township 17S, Range 28E
1,077' FSL & 660' FWL
Eddy County, NM

NAME AND DEPTH OF DISPOSAL ZONE: Cisco Canyon (8,000' – 8,550')
EXPECTED MAXIMUM INJECTION RATE: 10,000 Bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE: 1,600 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 Reed Davis at 918-382-7581.

AFFIDAVIT OF PUBLICATION

ARTESIA NEWS
PO BOX 507
HUTCHINSON, KS 67504-0507

STATE OF NEW MEXICO } SS
COUNTY OF EDDY }

Account Number: 1455
Ad Number: 52670
Description: Dinah 23 Fed Com SWD #1
Ad Cost: \$56.84

Sherry Groves, being first duly sworn, says:

That she is the Agent of the the Artesia News, a weekly newspaper of general circulation, printed and published in Artesia, Eddy County, New Mexico; that the publication, a copy of which is attached hereto, was published in said newspaper on the following dates:

June 26, 2025

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

Sherry Groves

Agent

Subscribed to and sworn to me this 26th day of June 2025.

Leanne Kaufenberg
Leanne Kaufenberg, Notary Public, Redwood County
Minnesota

APPLICATION FOR
AUTHORIZATION
TO INJECT

NOTICE IS HEREBY GIVEN:
That Spur Energy Partners,
LLC, 9655 Katy Freeway,
Ste. 500, Houston, Texas 77024,
is requesting that the New
Mexico Oil Conservation Di-
vision administratively approve
the APPLICATION FOR AU-
THORIZATION TO INJECT as
follows:

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

WELL NAME AND LOCA-
TION: Dinah 23 Federal Com
SWD #1
Located 14.29 miles east of
Artesia, NM, SW 1/4 SW 1/4,
Section 23, Township 17S,
Range 28E, 1,077' FSL & 660'
FWL, Eddy County, NM

NAME AND DEPTH OF
DISPOSAL ZONE: Cisco Can-
yon (8,000' - 8,550')

EXPECTED MAXIMUM
INJECTION RATE: 5,000
Bbls/day

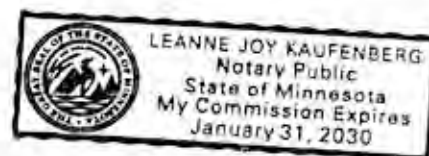
EXPECTED MAXIMUM
INJECTION PRESSURE:
1,600 psi (surface)

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 Reed
Davis at 918-382-7581.

Published in the Artesia Daily
Press June 26, 2025.
#52670

REED DAVIS
ALL CONSULTING LLC
1718 S CHEYENNE AVE
TULSA, OK 74119
rdavis@all-llc.com



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MIDLAND TX 79707-1631

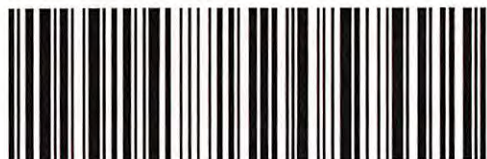
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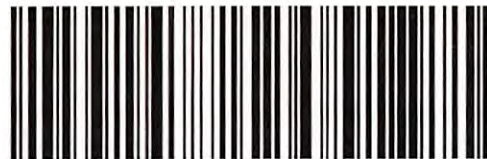
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SANTA FE NM 87501-2708

New Mexico Oil
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HOBBS NM 88240-9273

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Sep Permian LLC
9655 KATY FWY STE 500
HOUSTON, TX 77024

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OKLAHOMA CITY, OK 73116

SERVICE

USPS First-Class Mail® Letter
Insurance (Carrier Insurance (\$0.00))
Certified Mail
Return Receipt Electronic

REFERENCE

Ship Date:	Jul 08, 2025
Ship from ZIP:	74119
Weight:	0lbs. 1oz.
User:	allconsulting
Cost Code:	
Refund Type:	Mail-in
Reference #:	
Printed on:	Shipping Label
Delivery Status:	Delivered
Tracking #:	9414811105495896821019

UNIT PRICE

	\$0.69
	\$0.00
	\$4.85
	\$2.62
Subtotal	\$8.16
Label Quantity	1
Total Cost	\$8.16



Receipt

Print Date: Jul 14, 2025

[RETURN TO](#)

ALL Consulting LLC
1718 S Cheyenne Ave
Tulsa, OK 74119

SHIP TO

XTO Holdings, LLC
810 HOUSTON ST STE 2000
FORT WORTH, TX 76102

REFERENCE

Ship Date:	Jul 08, 2025
Ship from ZIP:	74119
Weight:	0lbs. 1oz.
User:	allconsulting
Cost Code:	
Refund Type:	Mail-in
Reference #:	
Printed on:	Shipping Label
Delivery Status:	Undeliverable
Tracking #:	9414811105495896821309

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	\$0.69
	\$0.00
	\$4.85
	\$2.62
Subtotal	\$8.16
Label Quantity	1
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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/oed/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 511153

CONDITIONS	
Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 511153
	Action Type: [C-108] Fluid Injection Well (C-108)

CONDITIONS

Created By	Condition	Condition Date
erica.gordan	None	10/10/2025