

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

**APPLICATION OF SELECT WATER  
SOLUTIONS, LLC FOR APPROVAL  
OF A SALTWATER DISPOSAL WELL,  
LEA COUNTY, NEW MEXICO.**

**CASE NO. \_\_\_\_\_**

**APPLICATION**

Pursuant to 19.15.26.8 NMAC, Select Water Solutions, LLC (“Select Water”) requests that the New Mexico Oil Conservation Division (“Division”) issue an order approving a saltwater disposal well in Lea County, New Mexico. In support of its application, Select Water states the following.

1. Select Water (OGRID No. 289068) seeks an order approving its proposed Javelina Fed 4 SWD #1, to be drilled at a location 408’ from the south line and 831’ from the east line (Unit P) of Section 4, Township 26 South, Range 35 East, Lea County, New Mexico, for the purpose of produced water disposal.

2. Select Water seeks authorization to inject produced water into the Bell Canyon and Cherry Canyon formations (SWD; Bell Canyon-Cherry Canyon; Code 96802), at a depth of approximately 5,360 feet to 7,550 feet.

3. Select Water proposes to inject an average of 15,000 barrels of water per day up to a maximum of 20,000 barrels of water per day.

4. Select Water requests that the Division approve a maximum surface injection pressure of 1,072 psi.

5. A Division Form C-108, which includes an area of review map, structural cross sections, seismic sections and analysis, no hydrologic connection statement, reservoir characterization, source water analysis, injection formation water analysis, water well map and

data, reservoir performance modeling, list of wells, and list of affected parties, is attached as Exhibit A.

6. The granting of this application will prevent waste and protect correlative rights.

WHEREFORE, Select Water requests that this application be set for hearing on September 11, 2025, and that, after notice and hearing, the Division enter an order approving this application and authorizing Select Water to inject produced water into the Javelina Fed 4 SWD #1.

Respectfully submitted,

HARDY MCLEAN LLC

/s/ Dana S. Hardy

Dana S. Hardy

Jaclyn M. McLean

Jaime R. Kennedy

125 Lincoln Ave, Ste. 223

Santa Fe, NM 87501

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*Counsel for Select Water Solutions, LLC*

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

Signature

\_\_\_\_\_

Date

\_\_\_\_\_

Phone Number

\_\_\_\_\_

e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

I. PURPOSE: \_\_\_\_\_ Secondary Recovery \_\_\_\_\_ Pressure Maintenance \_\_\_\_\_  Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval? \_\_\_\_\_ Yes \_\_\_\_\_  No

II. OPERATOR: Select Water Solutions, LLC

ADDRESS: 1820 N I-35, Gainesville, TX 76240

CONTACT PARTY: David Cheek PHONE: 405-482-7508

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: 07/28/25

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: \_\_\_\_\_

Application for Authorization to Inject  
Well Name: Javelina Fed 4 SWD #1

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

#### A.

##### (1) General Well Information:

Operator: Select Water Solutions, LLC (OGRID No. 289068)  
Lease Name & Well Number: Javelina Fed 4 SWD #1  
Location Footage Calls: 408' FSL & 831' FEL  
Legal Location: Lot P, S4 T26S R35E  
Ground Elevation: 3,179'  
Proposed Injection Interval: 5,360' – 7,550'  
County: Lea

##### (2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Conductor	20"	18-5/8"	94.5 lb/ft	120'	35	Surface	Circulation
Surface	17-1/2"	13-3/8"	54.5 lb/ft	1,090'	700	Surface	Circulation
Intermediate	12-1/4"	9-5/8"	40.0 lb/ft	5,305'	1,410	Surface	Circulation
Production	8-3/4"	7-5/8"	29.7 lb/ft	7,570'	2,350	Surface	CBL
Tubing		5-1/2"	17.0 lb/ft	5,340'			

##### (3) Tubing Information:

5-1/2" (17.0 lb/ft) fiberglass or equivalent lined tubing with setting depth of 5,340'.

(4) Packer Information: SC-2 or equivalent packer set at 5,340'.

#### B.

(1) Injection Formation Name: Bell Canyon and Cherry Canyon

Pool Name: SWD; BELL CANYON-CHERRY CANYON

Pool Code: 96802

(2) Injection Interval: Perforated injection between 5,360' – 7,550'

(3) Drilling Purpose: New drill for saltwater disposal

(4) Other Perforated Intervals: No other perforated intervals exist.

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

- None

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

- Brushy Canyon (7,750')
- Bone Spring (9,200')
- Wolfcamp (12,275')

## V – Well and Lease Details

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

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

## VI – AOR Well List

As recommended by the Oil Conservation Division (OCD) in Cases 23686 and 23687 Exhibit 11a 1.d, the proposed Select Delaware Mountain Group SWDs have been planned with uniform spacing and a one-mile radius area of review.

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

Three wells penetrate the injection zone in the 1-mile AOR. All of these wells have been properly cased and cemented through the proposed injection zone or plugged properly to isolate the proposed injection zone.

## VII – Proposed Operation

**(1) Proposed Maximum Injection Rate:** 20,000 bpd

**Proposed Average Injection Rate:** 15,000 bpd

**Step Rate Test:** Select intends to conduct a Step Rate Test (SRT) at the proposed Javelina Fed 4 SWD #1 location, prior to commencement of injection, to determine the formation fracture gradient and maximum allowable surface injection pressure.

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

**(3) Proposed Maximum Injection Pressure:** 1,072 psi (surface)

**Proposed Average Injection Pressure:** Approximately 776 psi (surface)

**(4) Source Water Analysis:** The expected injectate will consist of produced water from production wells completed in the Abo, Yeso Group, Avalon Shale, Bone Spring, and Wolfcamp 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 Bell Canyon and Cherry Canyon formations of the Delaware Mountain Group, which are non-productive zones known to be compatible with formation water from the Abo, Yeso Group, Avalon Shale, Bone Spring, and Wolfcamp formations. Water analyses from the Delaware Mountain Group in the area are included as **Attachment 4**.

## VIII – Geologic Description

The proposed injection interval includes the Bell Canyon and Cherry Canyon formations of the Delaware Mountain Group from 5,360' – 7,550'. The Guadalupian-age Bell Canyon and Cherry Canyon formations consist primarily of sandstones and siltstones with significant primary porosity and permeability, indicating these formations are viable injection targets. Select Water

Solutions, LLC will not perforate or inject into the Lamar Dolomite or Brushy Canyon Formation of the Delaware Mountain Group.

Further reservoir characterization, including discussion of the injection formation, overlying and underlying confinement zones, and historic use of the field is included as **Attachment 5**. In addition, structural and seismic cross sections depicting the area are included as **Appendix A**. Expert evaluation of the 3-D seismic section and structural cross sections are included within the *3-D Seismic Interpretation Statement* as **Attachment 8**.

Reservoir performance modeling, over 20 years, is included as **Appendix B**.

The base of the USDW is the Rustler Formation at a depth of approximately 1,090 feet. Depth of the nearest water well in the area is approximately 105 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. However, no other formation stimulation is currently planned.

## **X – Logging and Test Data**

Logs to be run include gamma ray, resistivity, neutron density, and sonic and will be submitted to the Division upon completion of the well.

Every two years, a static bottomhole pressure reading will be obtained, and a report will be generated to summarize performance based on injection volume, injection pressure, and any additional information collected during the period. The evaluation will include a delineation of the injection pressure front and a Hall's plot for each year and every four years an injection survey will be conducted.

## **XI – Fresh Groundwater Samples**

Based on a review of data from the New Mexico Office of the State Engineer, there are no groundwater wells located within 1-mile of the proposed SWD location.

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

## **XII – No Hydrologic Connection Statement**

No publicly known 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 7**.

## **XIII – Notice**

A list of notice recipients is 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-mile Problem Well Map
- 1-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:** List of Affected Persons

**Appendix A:** Seismic and Structural Cross Sections

**Appendix B:** Reservoir Performance Modeling

#### **Attachment 1**

- C-102
- Wellbore Diagram
- Packer Diagram

<b>C-102</b>  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024
		Submittal Type:
		<input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

**WELL LOCATION INFORMATION**

API Number	Pool Code	Pool Name
Property Code	Property Name <b>JAVELINA FED 4 SWD</b>	
Well Number <b>#1</b>	Ground Level Elevation <b>3179'</b>	
OGRID No. <b>289068</b>	Operator Name <b>SELECT WATER SOLUTIONS, LLC</b>	
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

**Surface Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	4	26 S	35 E		408' FSL	831' FEL	32.066185°	-103.366590°	LEA

**Bottom Hole Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.	Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No			

**Kick Off Point (KOP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

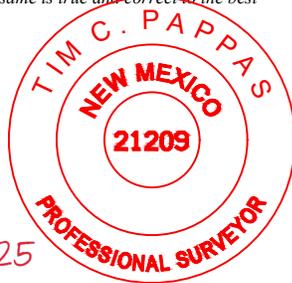
**First Take Point (FTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

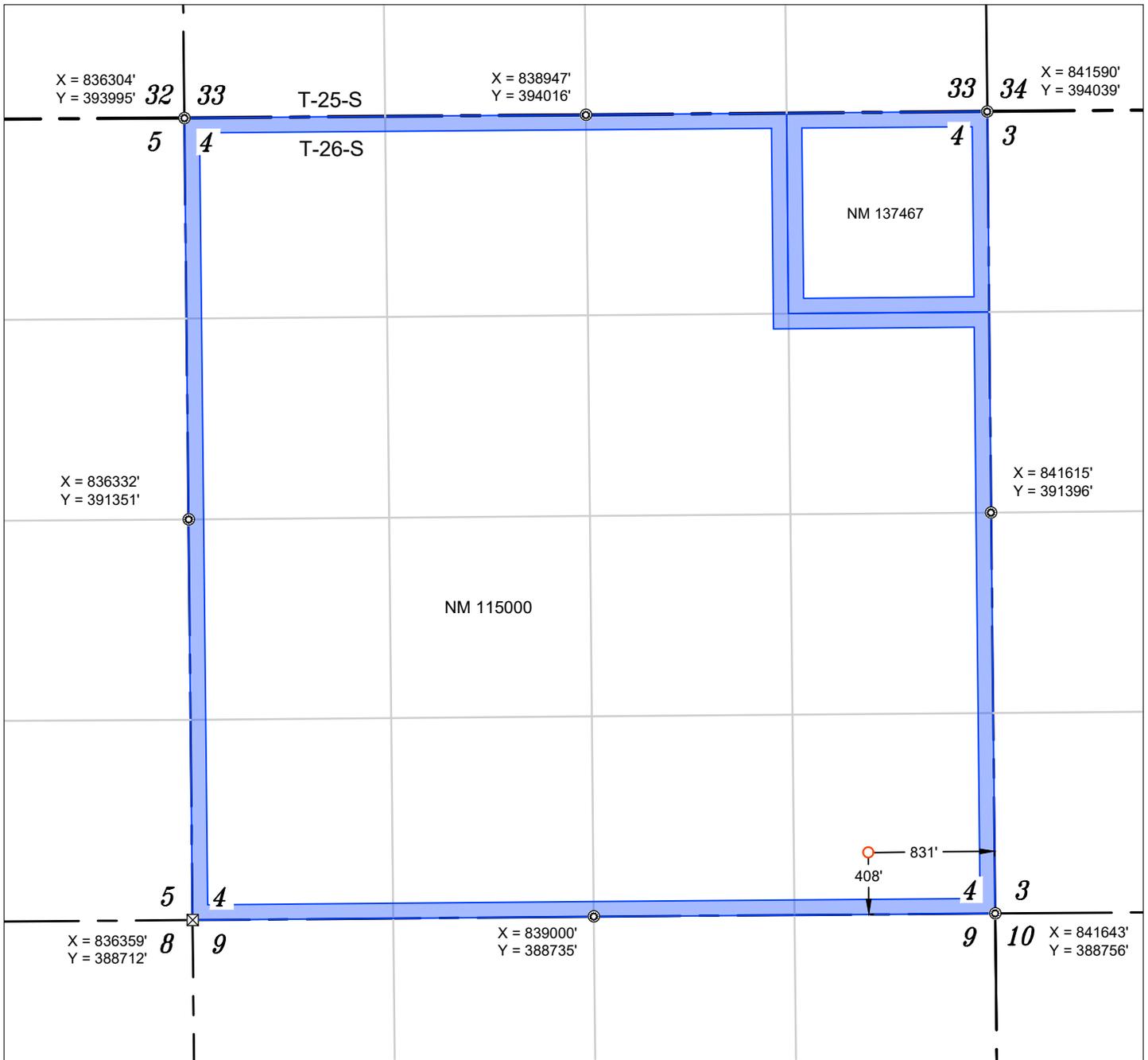
**Last Take Point (LTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: <b>3179'</b>
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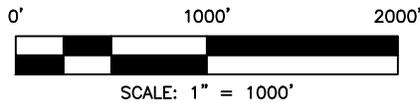
<p><b>OPERATOR CERTIFICATIONS</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i></p> <p style="text-align: right;">          JANUARY 27, 2025       </p>	<p><b>SURVEYOR CERTIFICATIONS</b></p> <p><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></p> <div style="text-align: right;">  <p>          28 Jan 2025       </p> </div>	
Signature	Date	Signature and Seal of Professional Surveyor
<b>Joshua Ticknor</b>		21209                      JANUARY 27, 2025
Printed Name		Certificate Number
<b>jticknor@all-llc.com</b>		Date of Survey
Email Address		

*Note: 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.*



WELL NAME: JAVELINA FED 4 SWD #1  
 ELEVATION: 3179'

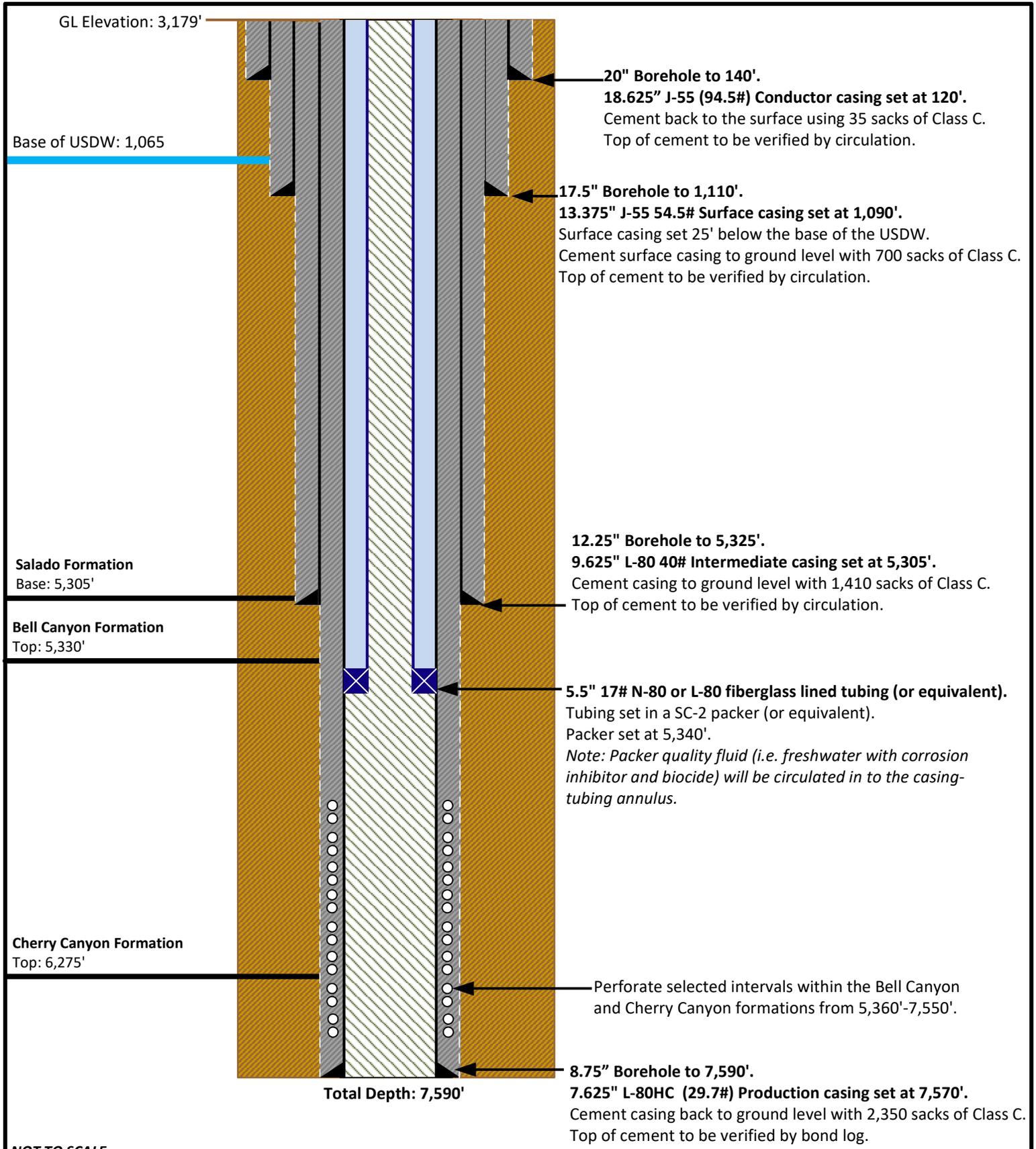
<b>NAD 83 (SHL) 408' FSL &amp; 831' FEL</b>
LATITUDE = 32.066185°
LONGITUDE = -103.366590°
<b>NAD 27 (SURFACE HOLE LOCATION)</b>
LATITUDE = 32.066058°
LONGITUDE = -103.366129°
<b>STATE PLANE NAD 83 (N.M. EAST)</b>
N: 389157.02' E: 840807.18'
<b>STATE PLANE NAD 27 (N.M. EAST)</b>
N: 389099.39' E: 799619.44'



- ⊗ FOUND MONUMENT
- ⊗ CALC. CORNER
- SHL
- HORIZONTAL SPACING UNIT
- STATE OIL & GAS LEASE
- BLM OIL & GAS LEASE

**NOTES**

1. ALL COORDINATES, BEARINGS, AND DISTANCES CONTAINED HEREIN ARE GRID, BASED UPON THE NEW MEXICO STATE PLANE COORDINATES SYSTEM, NORTH AMERICAN DATUM 83, NEW MEXICO EAST (3001).
2. THIS DOCUMENT IS BASED UPON AN ON THE GROUND SURVEY PERFORMED DURING JANUARY, 2025. CERTIFICATION OF THIS DOCUMENT IS ONLY TO THE LOCATION OF THIS EASEMENT IN RELATION TO RECORDED MONUMENT OF DEEDS PROVIDED BY THE CLIENT.
3. ELEVATIONS MSL, DERIVED FROM G.N.S.S. OBSERVATION AND DERIVED FROM SAID ON-THE-GROUND SURVEY.



**NOT TO SCALE**

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

Prepared by:  
  
 Prepared for:  


Drawn by: Joshua Ticknor

Project Manager: Reed Davis

Date: 06/10/2025

**Javelina Fed 4 SWD #1**  
**Proposed Wellbore Diagram**  
**Operated by Select Water Solutions. LLC**  
 S4, T26S, R35E  
 Lea County, New Mexico

## SC-2 Retrievable Packer

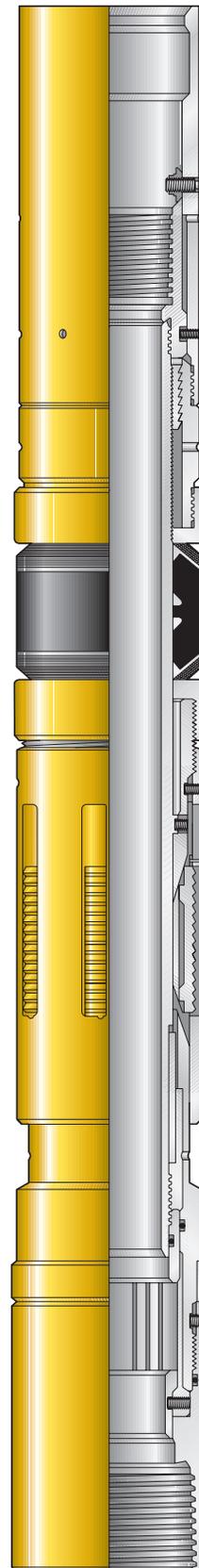
Product Family No. H48807

### APPLICATION

The Baker Hughes SC-2™ retrievable packer is a high-performance, retrievable, sealbore packer. It can be run and set on electric wireline, slick line/tubing with the same setting tools used for the D packer.

### Advantages

- Can be set with wireline or hydraulic setting tools
- Can be equipped with a variety of bottom guides (must be ordered separately)
- Packer easily accommodates tubing expansion or contraction
- Tubing and seals can be removed without accidentally unsetting packer
- Easy retrieval due to caged slips and releasing mechanism located in protected area below packing element
- Packer's releasing mechanism is not affected by differential pressure or tailpipe weight
- Case-hardened slips suitable for all grades of casing including V-150
- Compatible with standard Baker Hughes' seal accessories, tubing-conveyed perforating and gravel-packing systems



SC-2 Retrievable Packer  
Product Family No. H48807

## SPECIFICATION GUIDE

SC-2™ Retrievable Packer, Product Family No. H48807

Casing			Packer *					
OD		T & C Weight ▼	Size ●		Max Gage Ring OD		Max Packing Element	
in.	mm	lb/ft			in.	mm	in.	mm
5-1/2	139.7	20-23	55A2-26		4.485	113.9	4.406	111.9
		17-20	55A4-26		4.593	116.6	4.500	114.3
		13-15.5	55B-26		4.765	121.0	4.687	119.0
7	177.8	35-38	70A2-32		5.735	145.6	5.687	144.4
		29-32	70A4-32		5.820	147.8	5.750	146.0
		23-29	70B-32		6.000	152.4	5.937	150.8
		17-20	70C-32		6.250	158.7	6.187	157.1
7-5/8	193.6	33.7-39	76A2-32 ♦	76A2-40 ♦	6.440	163.6	6.375	161.9
		29.7-33.7	76A4-32 ♦	76A4-40 ♦	6.580	167.1	6.500	165.1
		24-29.7	76B2-32 ♦	76B2-40 ♦	6.690	169.9	6.625	168.2
		20-24	76B4-32 ♦	76B4-40 ♦	6.784	172.3	6.718	170.6
9-5/8	244.4	53.5-58.4	96A-47		8.191	208.0	8.125	206.3
		47-53.5	96A2-47		8.319	211.3	8.250	209.5
		40-47	96A4-47		8.465	215.0	8.375	212.7
		36-40	96B-47		8.619	218.9	8.500	215.9

Size	Sealbore Dia for Seal Nipples ■		Seal Accessory Size ▲	Min Bore Thru Seal Nipples	
	in.	mm		in.	mm
55A2-26	2.688	68.2	40-26	1.968	50.0
55A4-26					
55B-26					
70A2-32	3.250	82.5	80-32 or 81-32	2.406 or 1.995	61.1 or 50.6
70A4-32					
70B-32					
70C-32					
76A2-32	4.000	101.6	80-40	3.000	72.6
76A2-40					
76A4-32	3.250	82.5	80-32 or 81-32	2.406 or 1.995	61.1 or 50.6
76A4-40					
76B2-32	3.250	82.5	80-32 or 81-32	2.406 or 1.995	61.1 or 50.6
76B2-40					
76B4-32	3.250	82.5	80-32 or 81-32	2.406 or 1.995	61.1 or 50.6
76B4-40					
96A-47	4.750	120.6	190-47 or 192-47	3.000 or 3.875	72.6 or 98.4
96A2-47					
96A4-47					
96B-47					

\* For information on packer or accessory sizes not found in this specification guide, refer to Baker Hughes' packer systems technical manual or your Baker Hughes representative.

● When proposed for use in other than the casing weight range shown, contact your Baker Hughes representative.

■ The maximum OD (including tolerance) of any part run through a production packer should be at least 1/16-in. (1.59mm) smaller than the minimum bore through the packer body. This may occasionally require that the coupling ODs be turned down.

▲ Tubing-seal assemblies, tubing seal and spacer nipples.

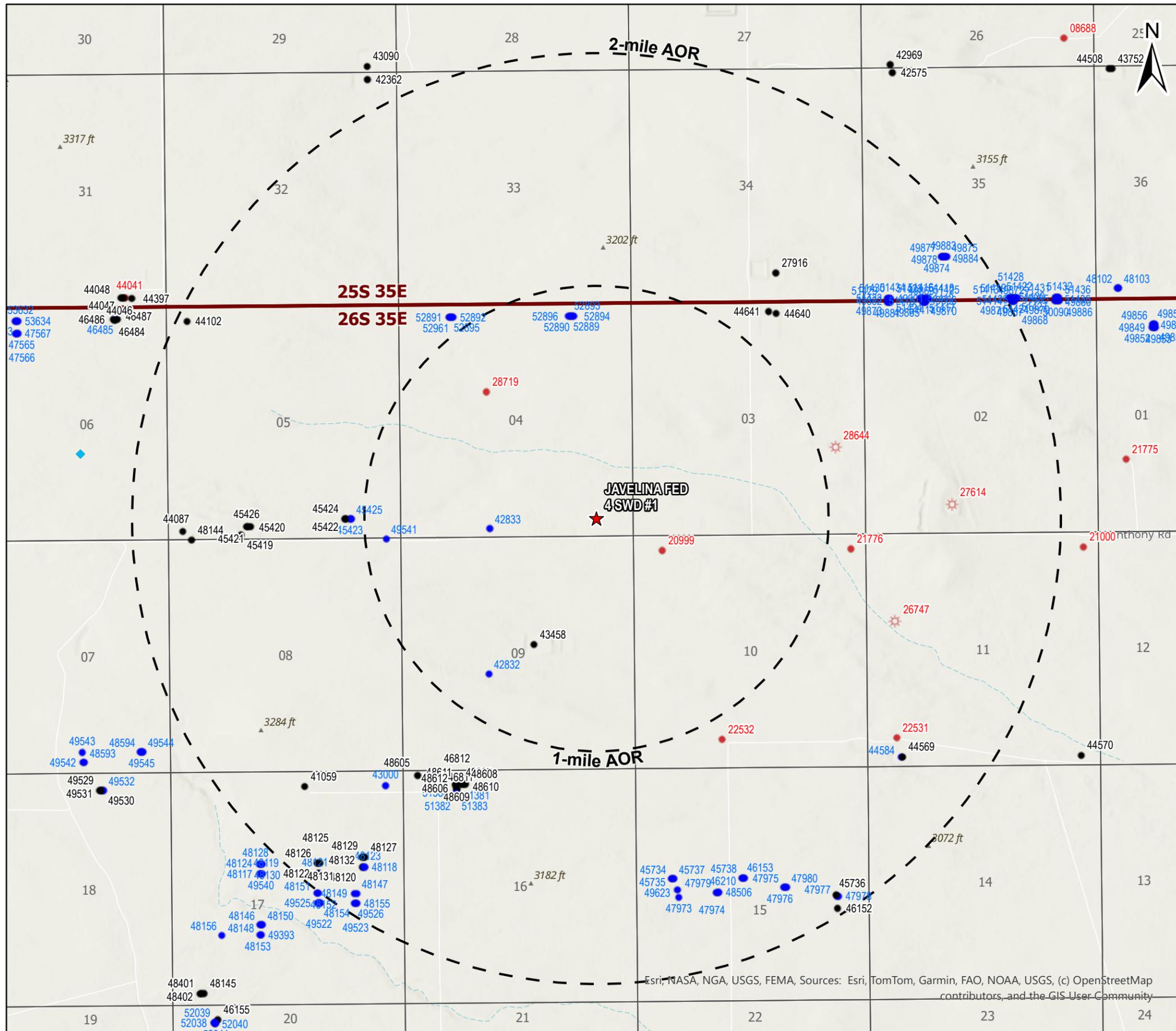
◆ This tool available with 3.250 in. (82.5 mm) or 4.000 in. (101.6 mm) seal bore diameter and uses sizes 80-32/ 81-32 or 80-40 accessories respectively.

▼ When selecting a SC-2 packer for a casing weight common to two size packers choose the packer with the smallest OD to maximize running clearances. Example: In 5-1/2-in. (139.7-mm), 20.0-lb/ft casing, use size 55A2-26.

## **Attachment 2**

### Area of Review Information:

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



### Legend

- ★ Proposed SWD (1)
- ☀ Gas, Plugged (3)
- Oil, Active (56)
- Oil, New (137)
- Oil, Plugged (9)
- ◆ Reclamation Fund (1)
- Wells Producing from Target Injection Zone (0)

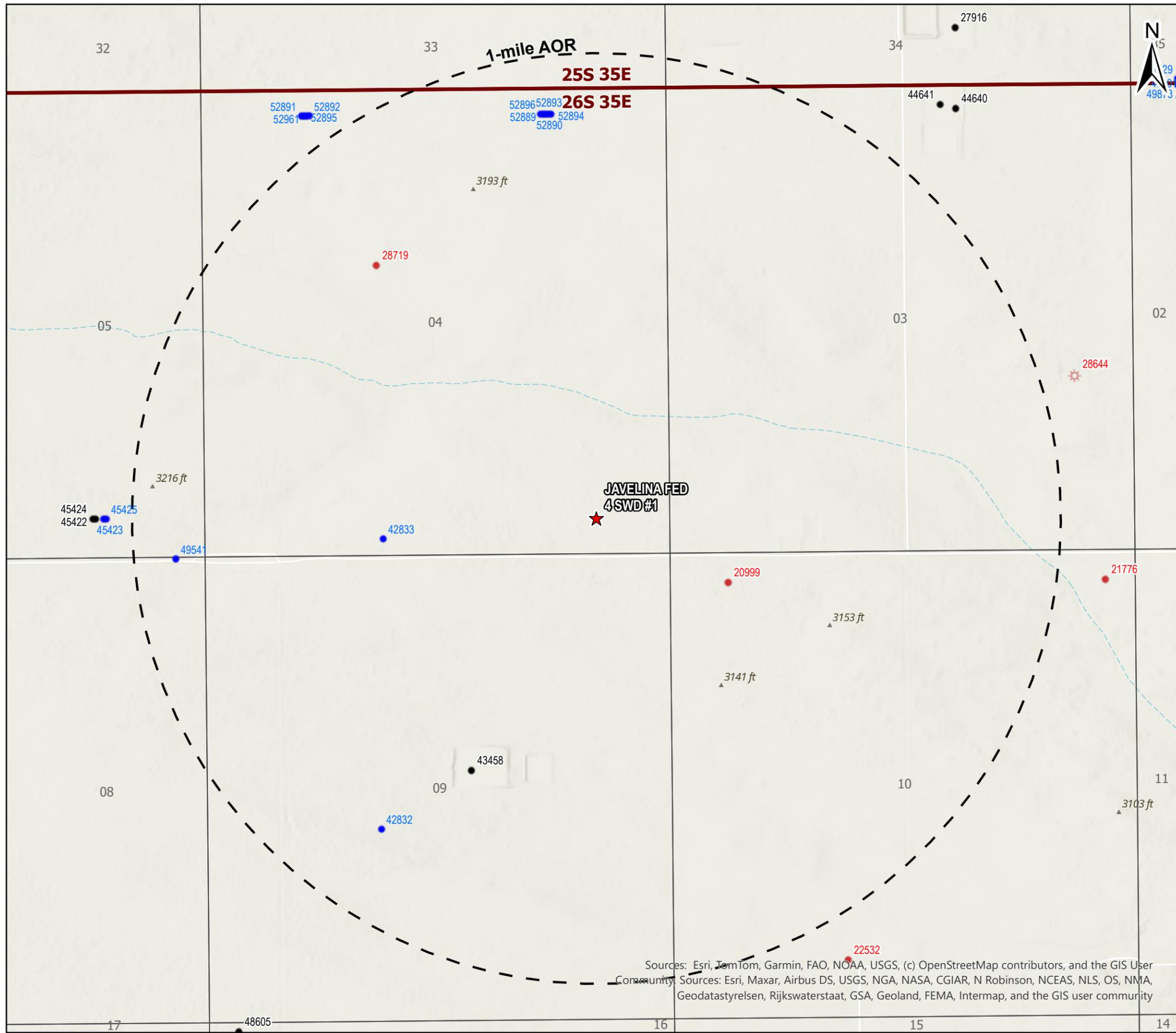
## 2-mile Production Review

### JAVELINA FED 4 SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	May 12, 2025	Mapped by: Ben Bockelmann
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Prepared for: 	Prepared by: 
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Source Info: <https://gis.emnrd.nm.gov/arcgis/rest/services/OCDView/Wells/MapServer>



- ### Legend
- ★ Proposed SWD (1)
  - ☼ Gas, Plugged (2)
  - Oil, Active (7)
  - Oil, New (22)
  - Oil, Plugged (4)

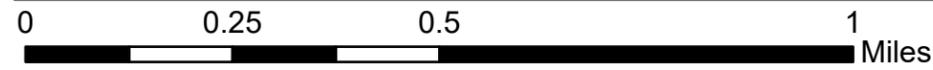
## 1-mile O&G Wells AOR

### JAVELINA FED 4 SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	May 12, 2025	Mapped by: Ben Bockelmann
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Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community  
 Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMIA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community



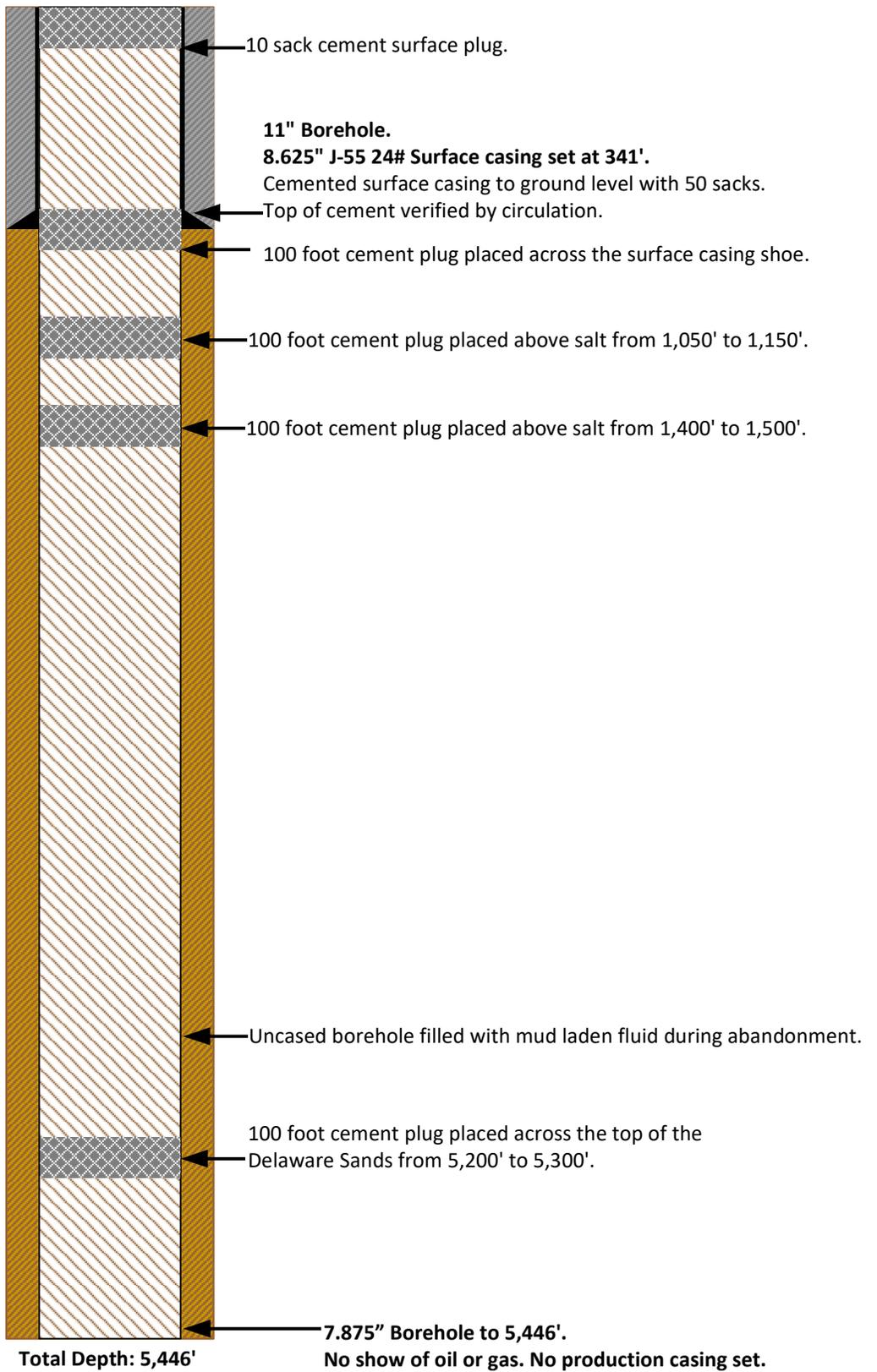
Source Info: <https://gis.emnrd.nm.gov/arcgis/rest/services/OCDView/Wells/MapServer>

**AOR Tabulation for Javelina Fed 4 SWD #1 (Bell Canyon and Cherry Canyon - Injection Interval: 5,360' - 7,550'), Lea County**

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
Sinclair et al Federal #1	30-025-20999	Oil	Max M. Wilson	4/30/1964	10-26S-35E	5,446'	Yes
Talco 9 26 35 Federal #003H	30-025-43458	Oil	COG Operating LLC	10/27/2016	09-26S-35E	12,669'	Yes
Harvey "4" Federal #1	30-025-28719	Oil	M.J. Harvey Jr.	5/31/1984	04-26S-35E	168' - Lost Hole - Plugged	No
Akubra Federal Com #802H	30-025-52896	Oil	COG Operating LLC	Permitted	04-26S-35E	NA	NA
AKubra Federal Com #602H	30-025-52889	Oil	COG Operating LLC	Drilled	04-26S-35E	11,765'	Yes
Akubra Federal Com #703H	30-025-52893	Oil	COG Operating LLC	Permitted	04-26S-35E	NA	NA
Akubra Federal Com #704H	30-025-52894	Oil	COG Operating LLC	Permitted	04-26S-35E	NA	NA
Akubra Federal Com #603H	30-025-52890	Oil	COG Operating LLC	7/16/2024	04-26S-35E	1,142' Suspended Operations	No
Big Jay 4 Federal #002H	30-025-42833	Oil	Devon Energy	Cancelled	04-26S-35E	NA	NA
Big Jay 4 Federal #001H	30-025-42832	Oil	Devon Energy	Cancelled	04-26S-35E	NA	NA
Arena Roja Federal Unit #013	30-025-39596	Gas	Devon Energy	Cancelled	10-26S-35E	NA	NA

**Casing / Plugging Information for Wells Penetrating the Javelina Fed 4 SWD #1 Injection Zone**

Well Name	Type	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
SINCLAIR ET AL A FEDERAL #1	Surface	341'	8-5/8"	Surface	Circulation	150	12-1/4"
	Intermediate	NA	NA	NA	NA	NA	NA
	Production	NA	NA	NA	NA	NA	NA
<b>Well was plugged as a dry hole. A 100-foot cement plug set from 5,200' - 5,300'. Proposed injection zone is isolated.</b>							
TALCO 9 26 35 FEDERAL #003H	Surface	1,155'	10-3/4"	Surface	Circulation	800	14-3/4"
	Intermediate	11,585"	7-5/8"	Surface	Calculated TOC = 1,000'	1487	9-7/8"
	Production	19,722'	5"	Surface	Circulation	1125	6-3/4"
<b>No Issues.</b>							
AKUBRA FEDERAL COM #602H	Surface	1,157'	10-3/4"	Surface	Circulation	925	14-3/4"
	Intermediate	11,751'	7-5/8"	Surface	Circulation	1120	8-3/4"
	Production	23,091'	5-1/2"	Surface	Circulation	1900	6-3/4"
<b>No Issues.</b>							



**NOT TO SCALE**

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

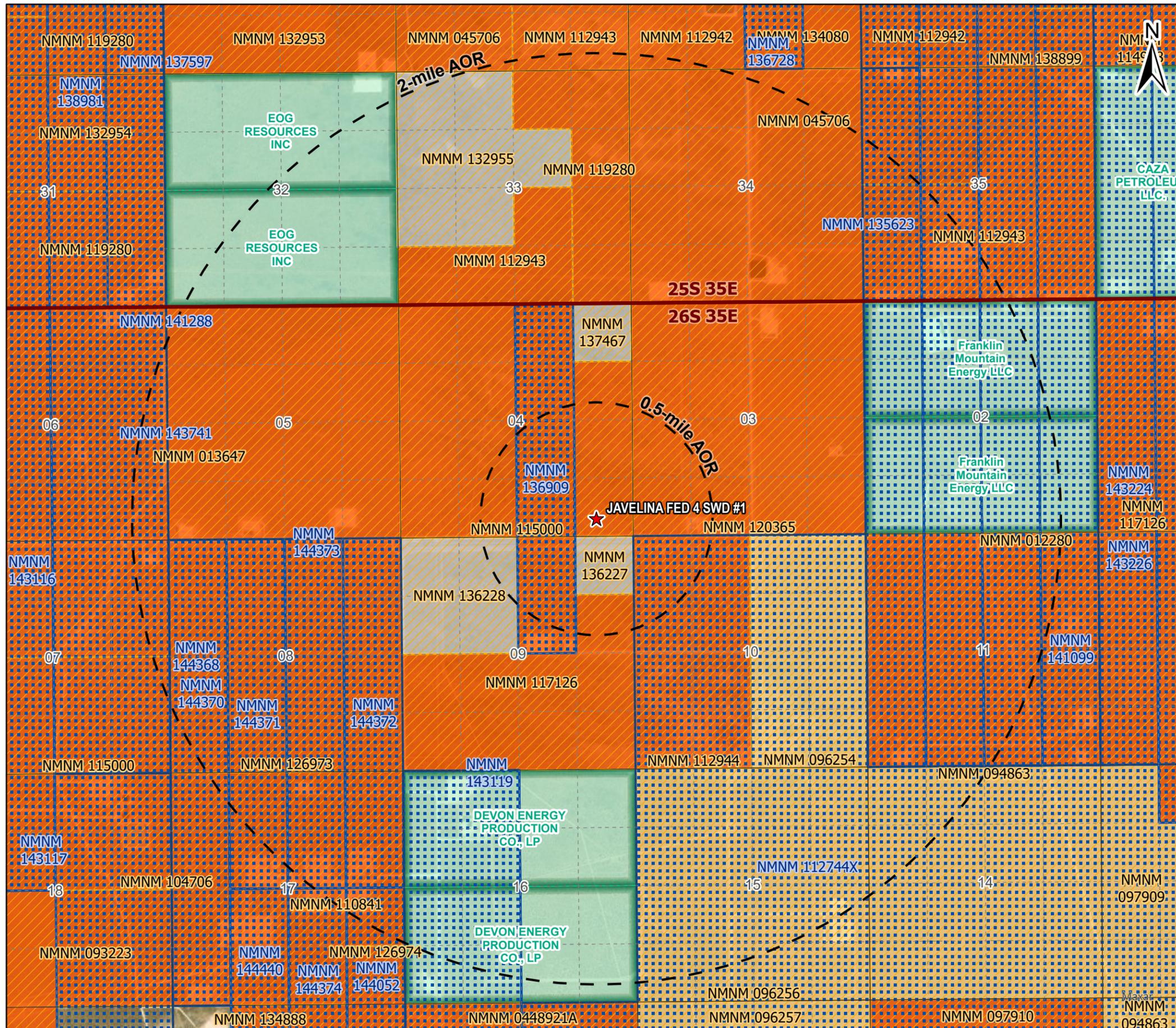
Prepared by:  
**ALLCONSULTING**  
 Prepared for:  
**SELECT**

Drawn by: Joshua Ticknor

Project Manager: Reed Davis

Date: 07/18/2025

Sinclair et al "A" API: 30-025-20999  
 Plugged Wellbore Diagram  
 Drilled by Max M Willson (Operator)  
 Spud: 4/30/1964 P&A: 5/25/1964  
 S10, T26S, R35E  
 Lea County, New Mexico



**Legend**

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Communitization Units
- BLM Oil & Gas Leases
- Case Disposition
  - Authorized
  - Interim
- Production Status
  - Held by Actual Production
  - Held by Allocated Production
  - Non-Producing

**1/2-mi Affected Parties**

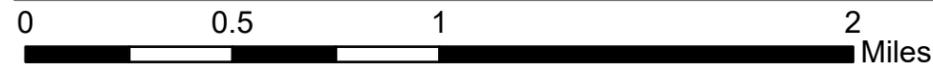
- BLM Unit Operators:
- COG OPERATING LLC
  - DEVON ENERGY CO LP BLM
- Lessees:
- CHEVRON USA INC
  - COG OPERATING LLC
  - DEVON ENERGY PROD CO LP

**Mineral Lease AOR**

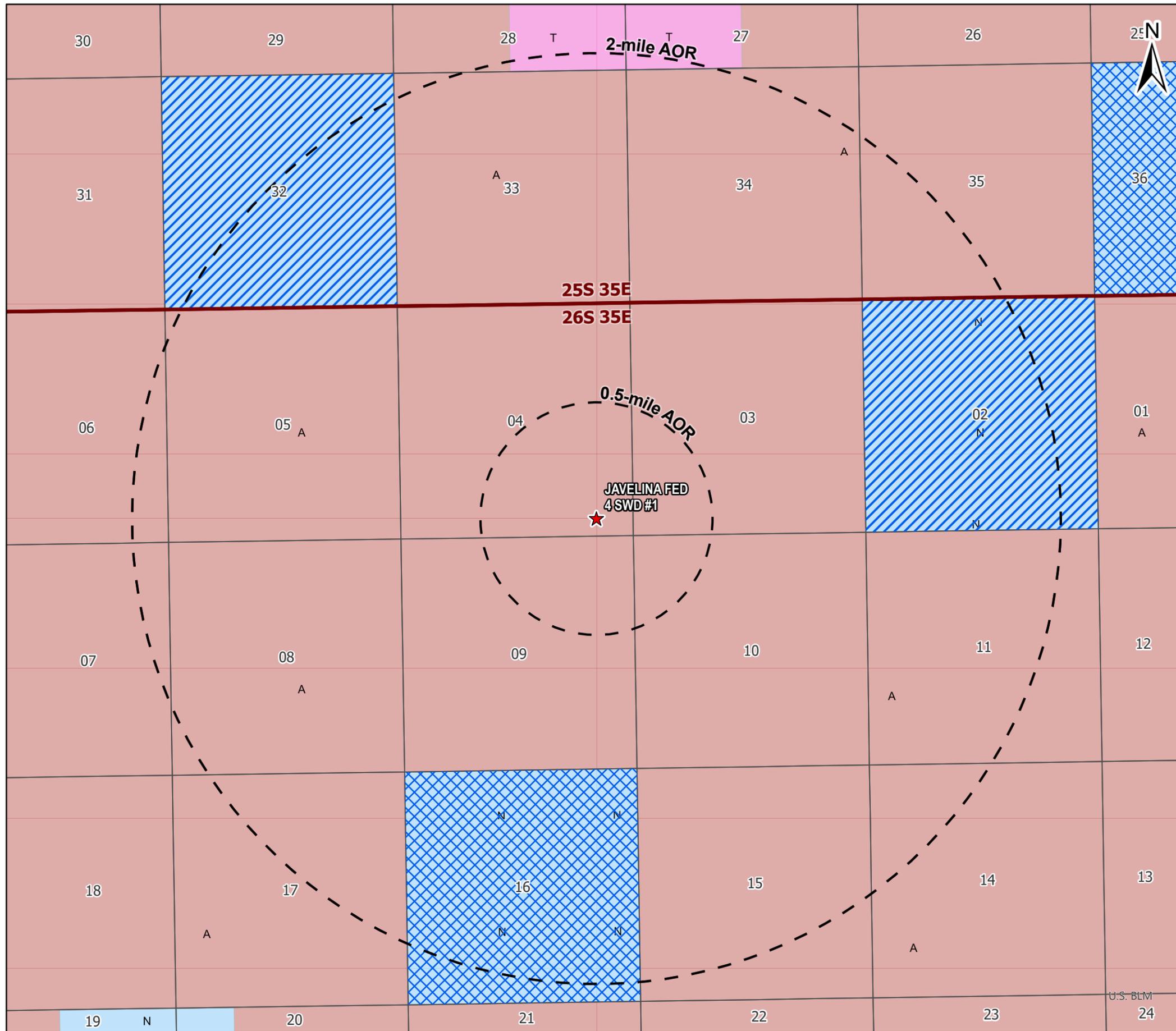
**JAVELINA FED 4 SWD #1**  
LEA COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	June 06, 2025	Mapped by: Ben Bockelmann
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Prepared for: 	Prepared by: 
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Source Info: BLM Surface Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership>)

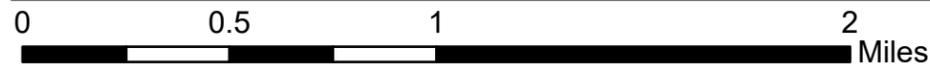


- ### Legend
- ★ Proposed SWD
  - NMSLO Ownership
    - Subsurface
    - Surface
    - Surface and Subsurface
  - Mineral Ownership
    - A-All minerals are owned by U.S.
    - N-No minerals are owned by the U.S.
    - T-Other minerals are owned by the U.S.

## 2-mile Mineral Ownership AOR

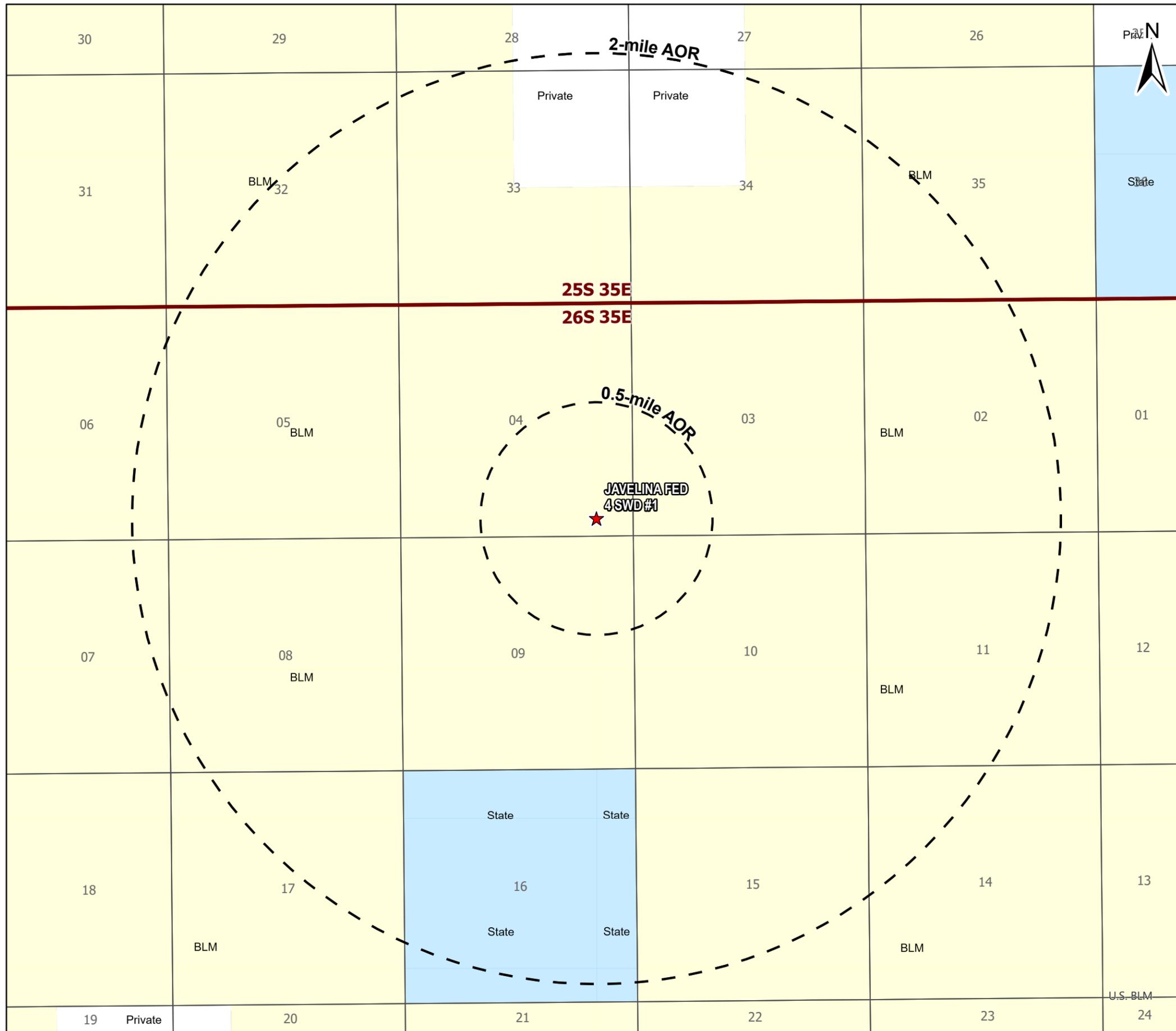
### JAVELINA FED 4 SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	April 18, 2025	Mapped by: Ben Bockelmann
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Source Info: BLM Surface Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership>)

U.S. BLM



**Legend**

- ★ Proposed SWD

**Land Ownership**

- BLM
- P
- S

**2-mile Surface Ownership AOR**

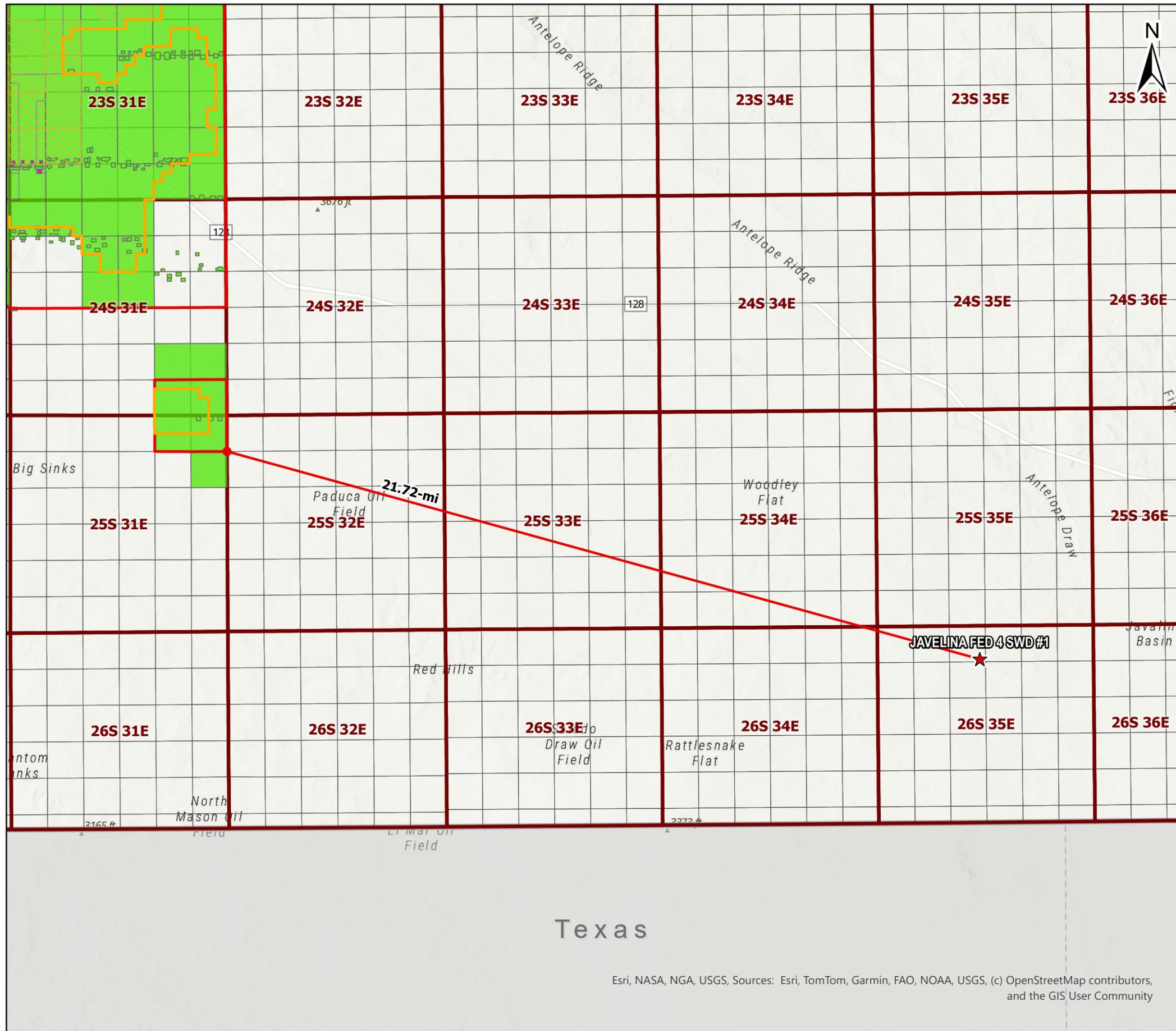
**JAVELINA FED 4 SWD #1**  
LEA COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	April 18, 2025	Mapped by: Ben Bockelmann
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Prepared for: 	Prepared by: 
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Source Info: BLM Surface Ownership (<https://catalog.data.gov/dataset/blm-new-mexico-surface-ownership>)



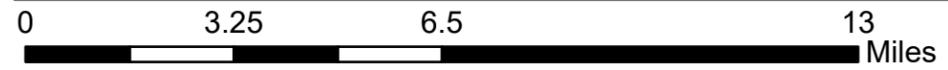
### Legend

- ★ Proposed SWD
- Known Potash Leasing Area
- ▨ Intrepid and Mosaic Potash Leases
- SOPA 1986
- Drill Islands - 2025-04-04
- Status, Depth Buffer
- Approved, Half Mile
- Approved, Quarter Mile
- Nominated, Half Mile
- Nominated, Quarter Mile
- Development Areas- 2025-04-04
- Status
- Approved
- Pending

## Potash Lease AOR

### JAVELINA FED 4 SWD #1 LEA COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	April 18, 2025	Mapped by: Ben Bockelmann
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Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

Source Info: BLM CFO Potash ([https://www.nm.blm.gov/shapeFiles/cfo/carlsbad\\_spatial\\_data.html](https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html))

**Attachment 3**

Source Water Analysis

**Javelina Fed 4 SWD #1 - Source Water Analysis (Avalon, Bone Spring, Delaware [Brushy Canyon], Wolfcamp, Yeso Group formations)**

Well Name	API	Latitude	Longitude	Formation	Tds (mg/L)	Sodium (mg/L)	Calcium (mg/L)	Iron (mg/L)	Barium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Strontium (mg/L)	Manganese (mg/L)	Chloride (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)	H2S (mg/L)
LEARCY MCBUFFINGTON #014	3002520208	32.1239586	-103.1113434	BLINEBRY/TUBB/DRINKARD	63222	-	2750	1	-	566	-	-	-	5216	-	1061	3156	1254
CARLSON FEDERAL #002	3002511707	32.1103554	-103.1315765	BLINEBRY	122000	-	-	-	-	-	-	-	-	75000	-	488	1740	-
LANGLIE A FEDERAL #001	3002511631	32.1293907	-103.183815	TUBB	307000	-	-	-	-	-	-	-	-	180000	-	244	7380	-
RATTLESNAKE 13 FEDERAL #002H	3002541247	32.050499	-103.4204483	DELAWARE-BRUSHY CANYON	227045.4	64080.1	14521.3	40.3	-	2543.8	-	-	3.57	143469	-	122	0	-
RAGIN CAJUN 13 FEDERAL #001H	3002541259	32.0369835	-103.4278412	DELAWARE-BRUSHY CANYON	165212.8	45382.9	10714.8	38.4	-	1824.7	-	-	3.14	105060	-	244	18	-
RATTLESNAKE 13 12 FEDERAL COM #001H	3002540912	32.0369568	-103.416214	DELAWARE-BRUSHY CANYON	243517.1	73409.8	15800	18.8	-	2869	-	-	3.12	149966.2	-	48.8	560	-
BELL LAKE 19 STATE #001H	3002541024	32.1964722	-103.6176224	BONE SPRING 2ND SAND	134649.2	44572.9	6215	37.9	-	759.3	-	-	0.93	81681.6	-	244	765	-
BELL LAKE 19 STATE #004H	3002541517	32.1964722	-103.6087875	BONE SPRING 2ND SAND	133460.5	44483.1	5917	30.5	-	718.2	-	-	0.83	80981.7	-	244	675	-
SALADO DRAW 6 FEDERAL #001H	3002541293	32.0657196	-103.5146942	BONE SPRING 3RD SAND	99401.9	34493.3	3295	0.4	-	396.8	-	-	0.37	59986.5	-	109.8	710	-
FIGHTING OKRA 18 FEDERAL COM #001H	3002540382	32.0435333	-103.5164566	AVALON UPPER	201455.9	66908.6	9313	10	-	1603	-	-	1.6	121072.7	-	1024.8	940	-
ICHABOD 7 FEDERAL #001H	3002540043	32.0511932	-103.5014954	AVALON UPPER	1508.7	317.4	90.7	0	-	55.4	-	-	0	242.4	-	125	675	-

**Attachment 4**

Injection Formation Water Analysis

**Javelina Fed 4 SWD #1 - Injection Formation Water Analysis (Delaware, Bell Canyon, and Cherry Canyon formations)**

Well Name	API	Latitude	Longitude	Formation	Tds (mg/L)	Sodium (mg/L)	Calcium (mg/L)	Iron (mg/L)	Barium (mg/L)	Magnesium (mg/L)	Potassium (mg/L)	Strontium (mg/L)	Manganese (mg/L)	Chloride (mg/L)	Carbonate (mg/L)	Bicarbonate (mg/L)	Sulfate (mg/L)	H2S (mg/L)
RATTLESNAKE 13 FEDERAL #002H	3002541247	32.050499	-103.4204483	DELAWARE-BRUSHY CANYON	227045.4	64080.1	14521.3	40.3	-	2543.8	-	-	3.57	143469	-	122	0	-
RAGIN CAJUN 13 FEDERAL #001H	3002541259	32.0369835	-103.4278412	DELAWARE-BRUSHY CANYON	165212.8	45382.9	10714.8	38.4	-	1824.7	-	-	3.14	105060	-	244	18	-
RATTLESNAKE 13 12 FEDERAL COM #001H	3002540912	32.0369568	-103.416214	DELAWARE-BRUSHY CANYON	243517.1	73409.8	15800	18.8	-	2869	-	-	3.12	149966.2	-	48.8	560	-
NORTH EL MAR UNIT #017	3002508430	32.0166054	-103.617691	DELAWARE	254756	-	-	-	-	-	-	-	-	159400	-	80	210	-
NORTH EL MAR UNIT #057	3002508440	32.0019455	-103.6131134	DELAWARE	259554	-	-	-	-	-	-	-	-	163000	-	61	253	-
GOEDEKE #002	3002508407	32.0597992	-103.5579987	DELAWARE	293925	-	-	-	-	-	-	-	-	184000	-	85	210	-

**Note:** Select agrees to collect one formation water sample for analysis prior to commencing commercial injection operations, given that no Bell Canyon or Cherry Canyon data addressing H2S, cations, and anions is available within 1/2-mile.

Sampling results will be electronically provided to NMOCD within 30-days of analysis.

**Attachment 5**

Reservoir Characterization

## Reservoir Characterization at the Javelina Fed 4 SWD #1

### 1. Injection Formation and Confinement

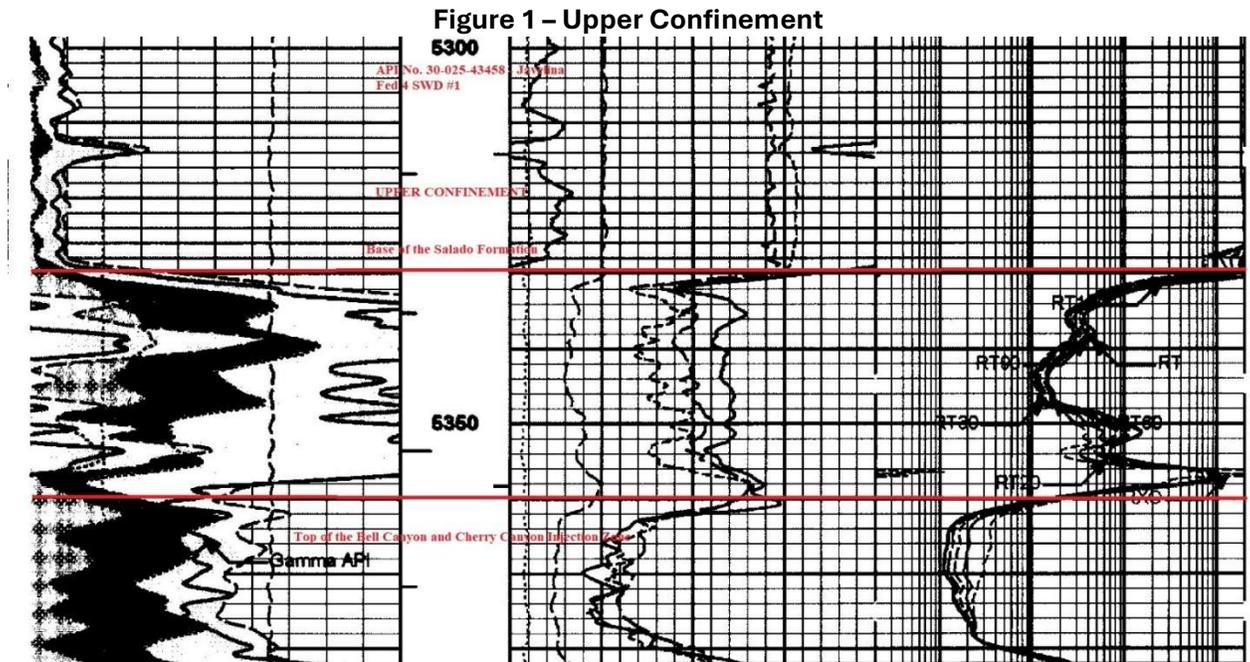
#### a. Injection Formation

The proposed injection interval includes the Bell Canyon and Cherry Canyon formations of the Delaware Mountain Group from 5,360' – 7,550'. The Guadalupian-age Bell Canyon and Cherry Canyon members consist primarily of sandstones and siltstones with significant primary porosity and permeability, indicating these formations are viable injection targets. Select will not perforate or inject into the Lamar Dolomite or Brushy Canyon Formation of the Delaware Mountain Group. Reservoir performance modeling suggests injection pressure into the Bell Canyon-Cherry Canyon injection interval would be below the fracture pressures of the upper and lower confining layers.

#### b. Upper Confinement

Nearby open hole geophysical well logs indicate the proposed Bell Canyon-Cherry Canyon injection interval is overlain by thousands of feet of tight evaporites within the Salado Formation, which will prevent the upward migration of fluids and act as the upper confining layer.

Estimated fracture gradient for the upper confinement layer is 0.726 psi/ft, per reservoir performance modeling in **Appendix B**.



#### c. Lower Confinement

Nearby open hole geophysical well logs indicate the proposed Bell Canyon-Cherry Canyon injection interval is underlain by approximately 60 feet of low porosity and low permeability rocks within the lower Brushy Canyon Formation of the Delaware Mountain Group, which will prevent the downward migration of fluid and act as the lower confining layer.

Estimated fracture gradient for the lower confinement layer is 0.771 psi/ft, per reservoir performance modeling in **Appendix B**.

**Figure 2 – Lower Confinement**