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.

CASEN	0
CASE N	U.

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
Phone: (505) 230-4410
dhardy@hardymclean.com
jmclean@hardymclean.com

Counsel for Select Water Solutions, LLC

RECEIVED:	REVIEWER:	TYPE:	APP NO:	
		cal & Engineerir	/ATION DIVISIO ng Bureau –	
			TION CHECKLIST	
THIS	CHECKLIST IS MANDATORY FOR AL REGULATIONS WHICH RE			
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SUBMIT ACCUR	ATE AND COMPLETE INF	ORMATION REQUIENTION REQUIENTION BEL		S THE TYPE OF APPLICATION
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administrative understand the	N: I hereby certify that the approval is accurate an action will be taken are submitted to the Div	and complete to ken on this applic	the best of my k	
N	lote: Statement must be comple	ted by an individual wi	th managerial and/or s	supervisory capacity.
			Date	
Print or Type Name				
La De	·		Phone Numb	er
Signature			e-mail Addres	SS

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 Application qualifies for administrative approval?	Pressure Maintenance X Disposal Storage 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 Additional sheets may be attached if necessary.	
IV.	Is this an expansion of an existing project?Yes If yes, give the Division order number authorizing the project: _	XNo
V.	Attach a map that identifies all wells and leases within two mile drawn around each proposed injection well. This circle identifies	es of any proposed injection well with a one-half mile radius circle es the well's area of review.
VI.		he area of review which penetrate the proposed injection zone. Such a, date drilled, location, depth, record of completion, and a schematic
VII.	Attach data on the proposed operation, including:	
	produced water; and,5. If injection is for disposal purposes into a zone not productive	luids to be injected; compatibility with the receiving formation if other than reinjected ve of oil or gas at or within one mile of the proposed well, attach a sy be measured or inferred from existing literature, studies, nearby
*VIII.	Give the geologic name, and depth to bottom of all undergroun	ng appropriate lithologic detail, geologic name, thickness, and depth. In the sources of drinking water (aquifers containing waters with total and the proposed injection zone as well as any such sources known to
IX.	Describe the proposed stimulation program, if any.	
*X.	Attach appropriate logging and test data on the well. (If well lo	ogs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh injection or disposal well showing location of wells and dates sa	
XII.		ent that they have examined available geologic and engineering data nnection between the disposal zone and any underground sources of
XIII.	Applicants must complete the "Proof of Notice" section on the r	reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with belief.	th this application is true and correct to the best of my knowledge and
	NAME: Reed Davis	TITLE: Geophysicist
	SIGNATURE: L	
*	E-MAIL ADDRESS: rdavis@all-llc.com If the information required under Sections VI, VIII, X, and XI all Please show the date and circumstances of the earlier submittal:	bove has been previously submitted, it need not be resubmitted.

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:

Туре	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'.

В.

(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.

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

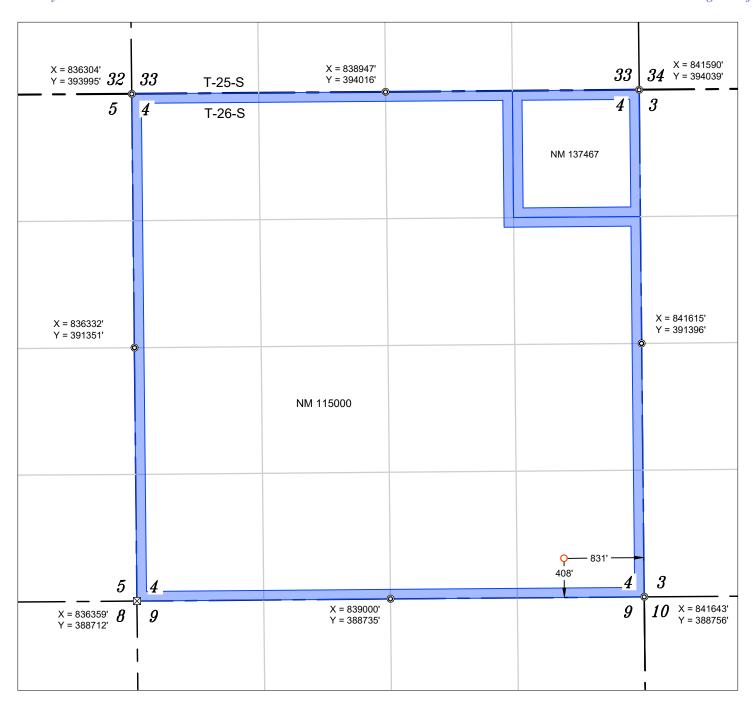
Attachment 8: List of Affected Persons

Appendix A: Seismic and Structural Cross Sections

Appendix B: Reservoir Performance Modeling

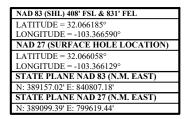
- C-102
- Wellbore Diagram
- Packer Diagram

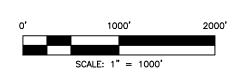
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		Energy, Minerals & OIL CONSE WELL 1 Der Pool Code Property Name O. 289068 Operator Name Section Township Range Lot Ft. from 408' Section Township Range Lot Ft. from 408' Section Township Range Lot Ft. from 500 Section Township Range Lot F				ATION DIVISION	1			bmittal			
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API Nu	mber		Pool Code			Pool Name							
Propert	y Code		Property Na	ame	JAVE	LINA FED 4 SWD			Well Number				
OGRID	No. 28	9068	Operator Na	ame	SELECT WA	ATER SOLUTIONS, L	LC		Ground Lev	el Elevation 3179'			
Surface	Owner: 🗆 S	State Fee	Tribal ⊠ Fe	deral		Mineral Owner:	State Fee	☐ Tribal 🗵	I Federal				
					Sur	rface Location							
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					Botto	m Hole Location							
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Order 1	Numbers.					Well setbacks are u	ınder Commo	n Ownersh	ip: □Yes □No	,			
					Kick	Off Point (KOP)							
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UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County			
	•	•	•		•	•		•					
Unitize	d Area or Ar	ea of Uniform I	nterest	Spacing	Unit Type ☐ Ho	rizontal Vertical	Grou	ınd Floor El	evation: 3179'				
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my know organiza including location interest,	ledge and belicition either own g the proposed pursuant to a co or to a volunta	ef, and, if the well ns a working interd bottom hole locat contract with an o	is a vertical or o est or unleased o ion or has a rigi wner of a worki	directional v mineral inte ht to drill thi ng interest o	vell, that this rest in the land is well at this r unleased mineral	I hereby certify that the we surveys made by me or una of my belief.							
consent of	of at least one in the tary will be located	lessee or owner of get pool or format or obtained a con	a working inter tion) in which ar npulsory pooling	rest or unlea ny part of the g order from	sed mineral interest e well's completed the division.		- 28 J	an 20	70, F5810	DNAL SURVEYOR			
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Jos	hua Tick	nor				21209	JANUAF	RY 27, 20	25				
Printed			11			Certificate Number	Date of Sur	vey					
	jtic	knor@all-	llc.com										
Email A	ddress					_	1						

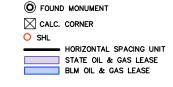


WELL NAME: JAVELINA FED 4 SWD #1

ELEVATION: 3179'

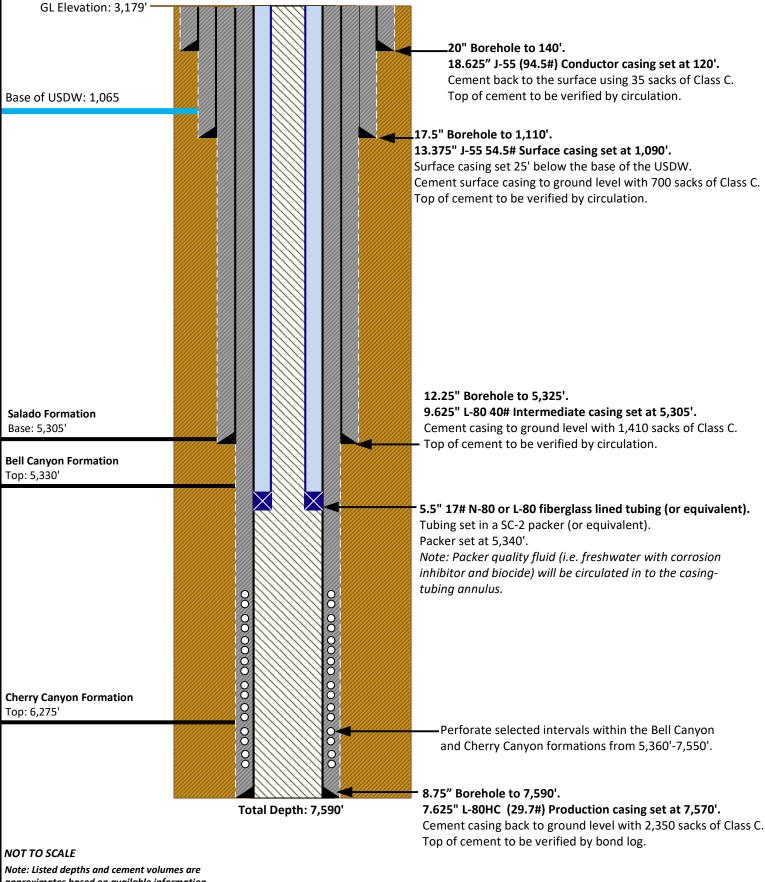






NOTES

- 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.



approximates based on available information.



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

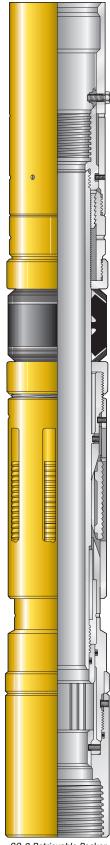
Product Family No. H48807

APPLICATION

The Baker Hughes SC- 2^{TM} 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, tubingconveyed perforating and gravel-packing systems



SC-2 Retrievable Packer Product Family No. H48807

Retrievable Packer Systems

SPECIFICATION GUIDE

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

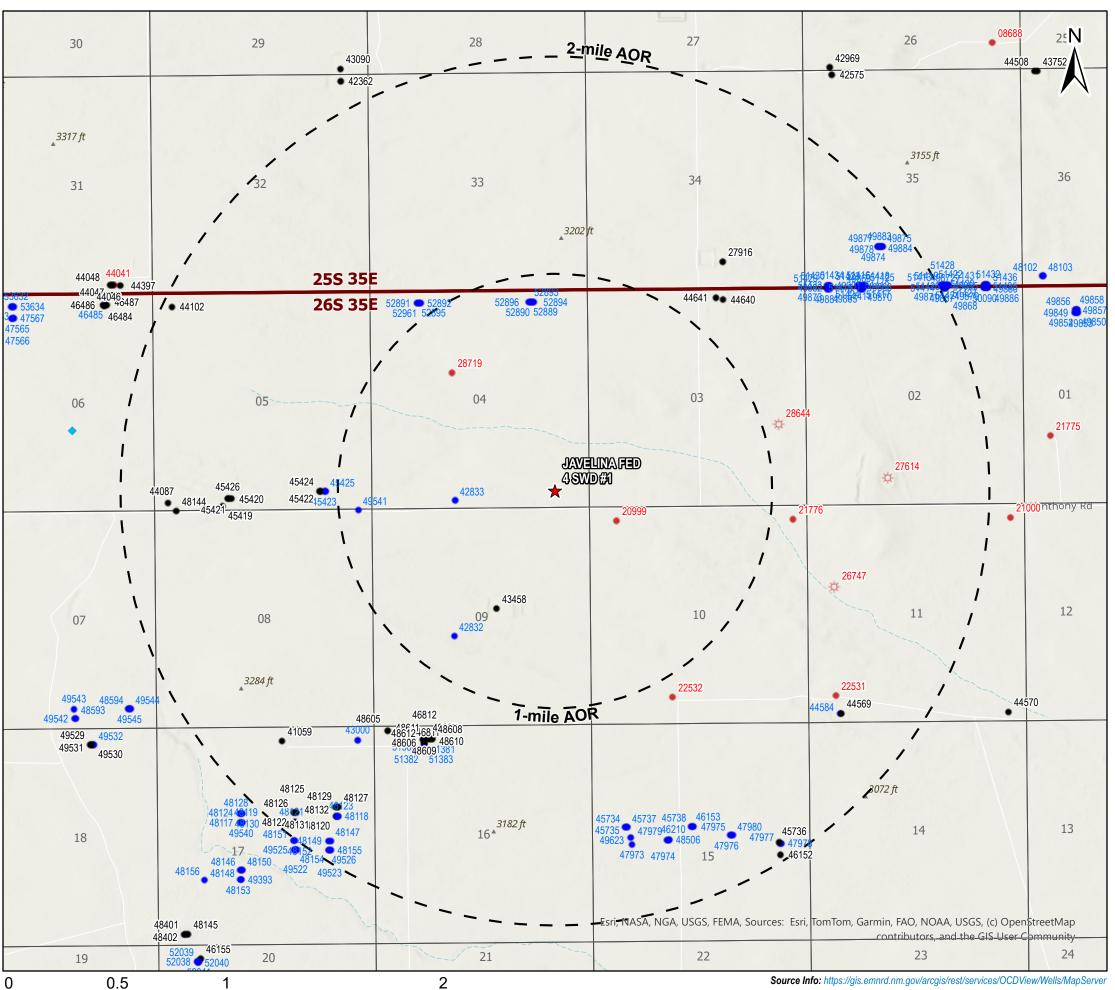
	Casing		Packer *											
0)D	T & C Weight ▼	Siz	e •	Max Gag	e Ring OD	Max Packing Element							
in.	mm	lb/ft	20,002		in.	mm	in.	mm						
		20–23	55A2-26		4.485	113.9	4.406	111.9						
5-1/2	139.7	17–20	55A4–26		4.593	116.6	4.500	114.3						
		13–15.5	55B-26		4.765	121.0	4.687	119.0						
		35–38	70A2-32		5.735	145.6	5.687	144.4						
7	177.0	29–32	70A4-32		5.820	147.8	5.750	146.0						
7	177.8	23–29	70B-32		6.000	152.4	5.937	150.8						
		17–20	70C–32		6.250	158.7	6.187	157.1						
		33.7–39	76A2–32 ◆ 76A2–40 ◆		6.440	163.6	6.375	161.9						
7-5/8	193.6	29.7–33.7	76A4-32 ◆ 76A4-40 ◆		6.580	167.1	6.500	165.1						
7-5/6	193.6	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						
		53.5-58.4	96A-47		8.191	208.0	8.125	206.3						
9-5/8	244.4	47–53.5	96A2-47		8.319	211.3	8.250	209.5						
9-5/6	244.4	40–47	96A4–47		8.465	215.0	8.375	212.7						
		36–40	96B	-47	8.619	218.9	8.500	215.9						

	Sealbore Dia fo	r Seal Nipples ■	Seal	Min Bore Thru Seal Nipples					
Size	in.	mm	Accessory Size ▲	in.	mm				
55A2-26									
55A4-26	2.688	68.2	40–26	1.968	50.0				
55B-26									
70A2-32									
70A4-32									
70B-32	3.250	82.5	80-32 or 81-32	2.406 or 1.995	61.1 or 50.6				
700-32									
76A2-32									
76A2-40			3.000	72.6					
76A4-32	3.250	82.5	80-32 or 81-32	2.406 or 1.995	61.1 or 50.6				
76A4-40	4.000	101.6	80–40	3.000	72.6				
76B2-32	3.250	82.5	80-32 or 81-32	2.406 or 1.995	61.1 or 50.6				
76B2-40	4.000	101.6	80–40	3.000	72.6				
76B4-32	3.250	82.5	80-32 or 81-32	2.406 or 1.995	61.1 or 50.6				
76B4-40	4.000	101.6	80–40	3.000	72.6				
96A-47									
96A2-47	4.750	120.6	190–47 or 192–47	3.000 or 3.875	72.6 or 98.4				
96A4-47	4.750	120.0	190-47 01 192-47	3.000 01 3.070	72.0 UI 90.4				
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.

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

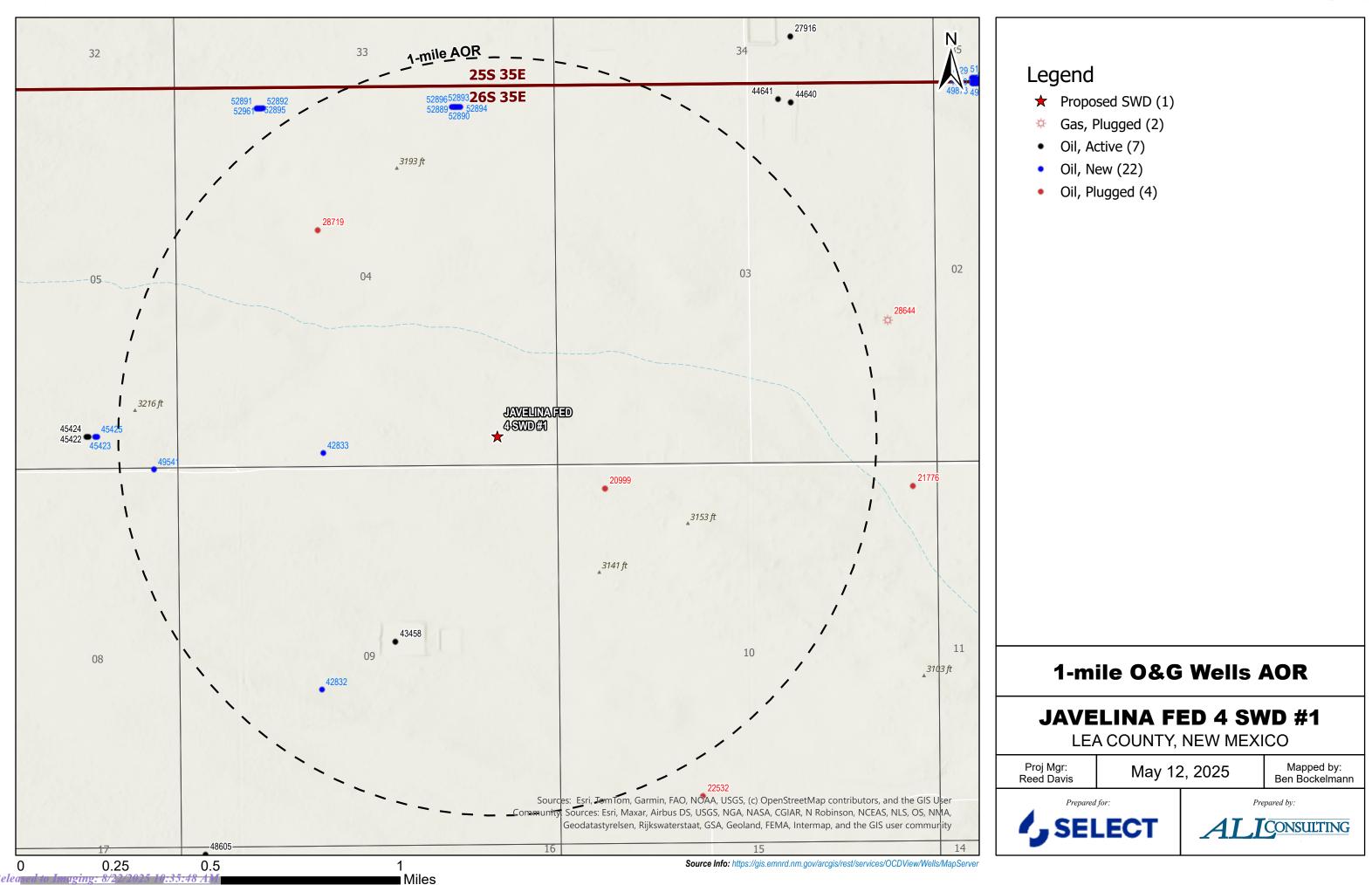
Proj Mgr: Reed Davis May 12, 2025

Mapped by: Ben Bockelmann





0 0.5 1 2 Releand to Longing: 8/22/2025 10:35:48 AM



Sinclair et al Federal #1 30-025-20999 Oil Max M. Wilson 4/30/1964 10-26S-35E 5,446' Yes Falco 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													
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								
		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 Inf	ormation for Wells Penetrat	ting the Javelina	a Fed 4 SWD #1 Injection	n Zone	
Well Name	Туре	Set Depth	Casing Size	тос	TOC Method Determined	Sks of Cement	Hole Size
	Surface	341'	8-5/8"	Surface	Circulation	150	12-1/4"
CINICI AID ET AL A FEDERAL #1	Intermediate	NA	NA	NA	NA	NA	NA
SINCLAIR ET AL A FEDERAL #1	Production	NA	NA	NA	NA	NA	NA
	Well was plugged	as a dry hole. A 1	.00-foot cement plug set from 5,200' - 5,	300'. Proposed injecti	on zone is isolated.		
	Surface	1,155'	10-3/4"	Surface	Circulation	800	14-3/4"
TALCO 0 3C 3F FFDFDAL #003H	Intermediate	11,585''	7-5/8"	Surface	Calculated TOC = 1,000'	1487	9-7/8"
TALCO 9 26 35 FEDERAL #003H	Production	19,722'	5"	Surface	Circulation	1125	6-3/4"
	No Issues.						
	Surface	1,157'	10-3/4"	Surface	Circulation	925	14-3/4"
AVUDDA FEDERAL COM #CO211	Intermediate	11,751'	7-5/8"	Surface	Circulation	1120	8-3/4"
AKUBRA FEDERAL COM #602H	Production	23,091'	5-1/2"	Surface	Circulation	1900	6-3/4"
	No Issues.						

10 sack cement surface plug. 11" Borehole. 8.625" J-55 24# Surface casing set at 341'. Cemented surface casing to ground level with 50 sacks. Top of cement verified by circulation. 100 foot cement plug placed across the surface casing shoe. 100 foot cement plug placed above salt from 1,050' to 1,150'. -100 foot cement plug placed above salt from 1,400' to 1,500'. Uncased borehole filled with mud laden fluid during abandonment. 100 foot cement plug placed across the top of the Delaware Sands from 5,200' to 5,300'. 7.875" Borehole to 5,446'. Total Depth: 5,446' No show of oil or gas. No production casing set.

NOT TO SCALE

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

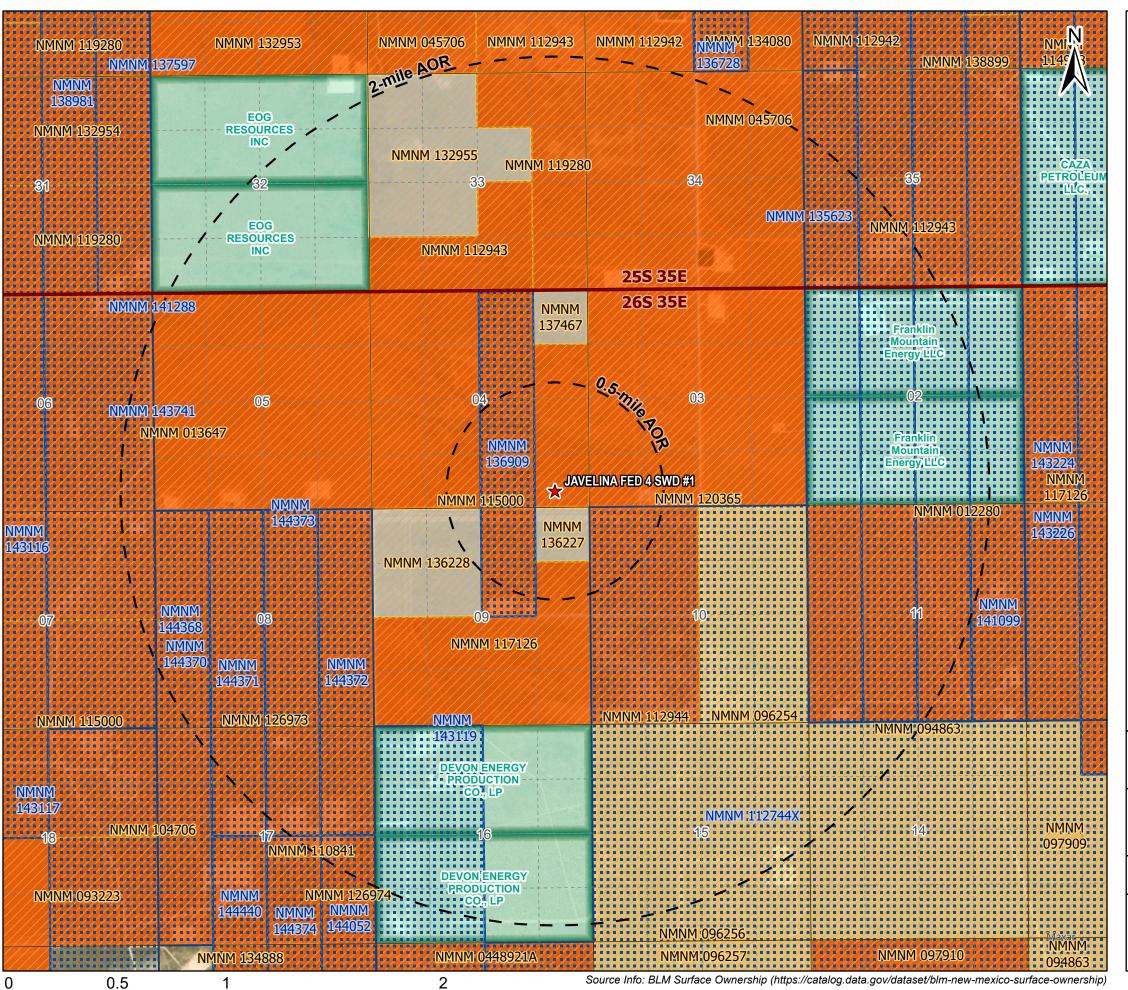


Drawn by: Joshua Ticknor

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, T265, R35E Lea County, New Mexico Received by OCD: 8/7/2025 4:18:47 PM Page 21 of 65



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

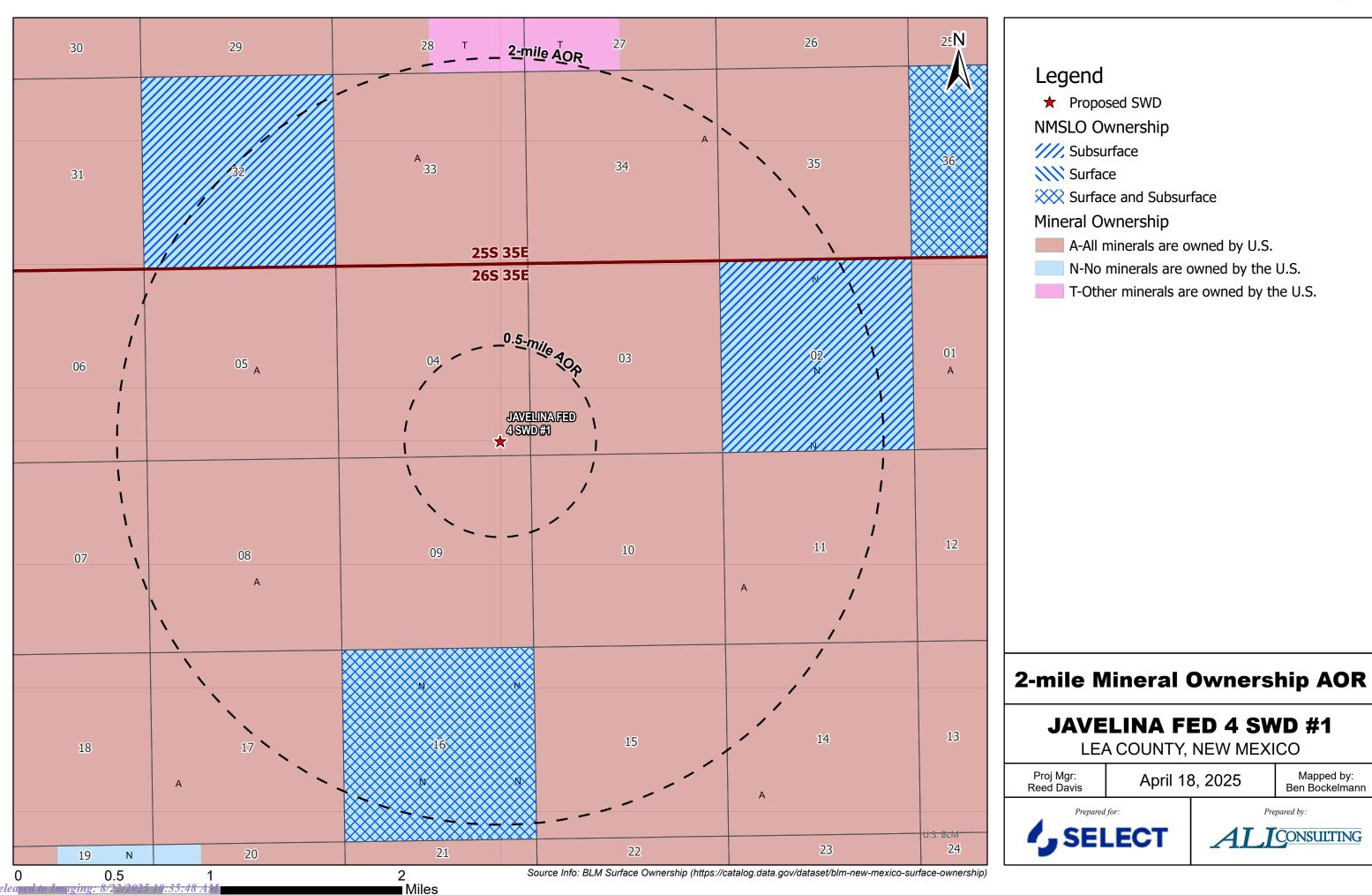
Proj Mgr: Reed Davis June 06, 2025

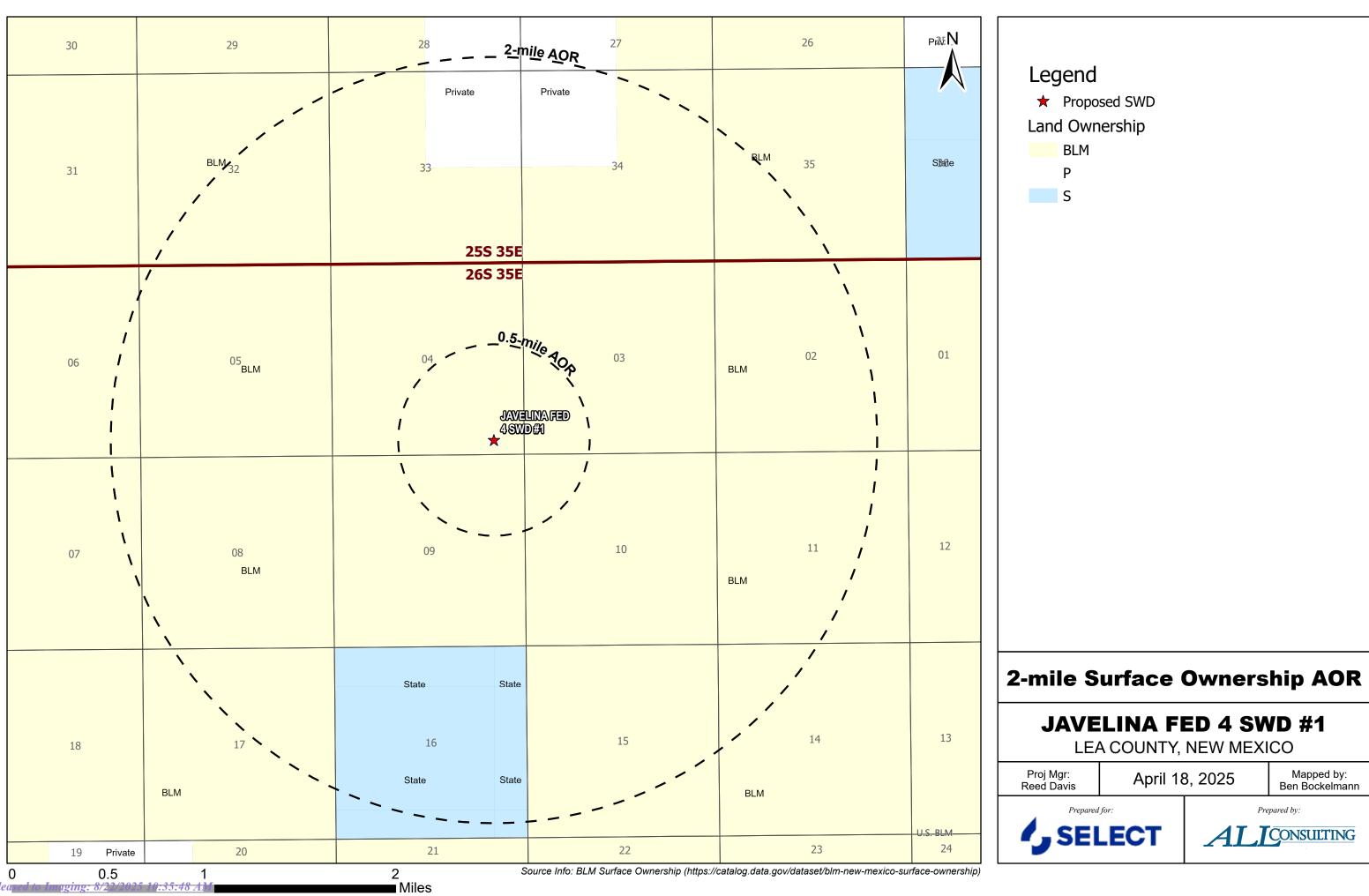
Mapped by: Ben Bockelmann

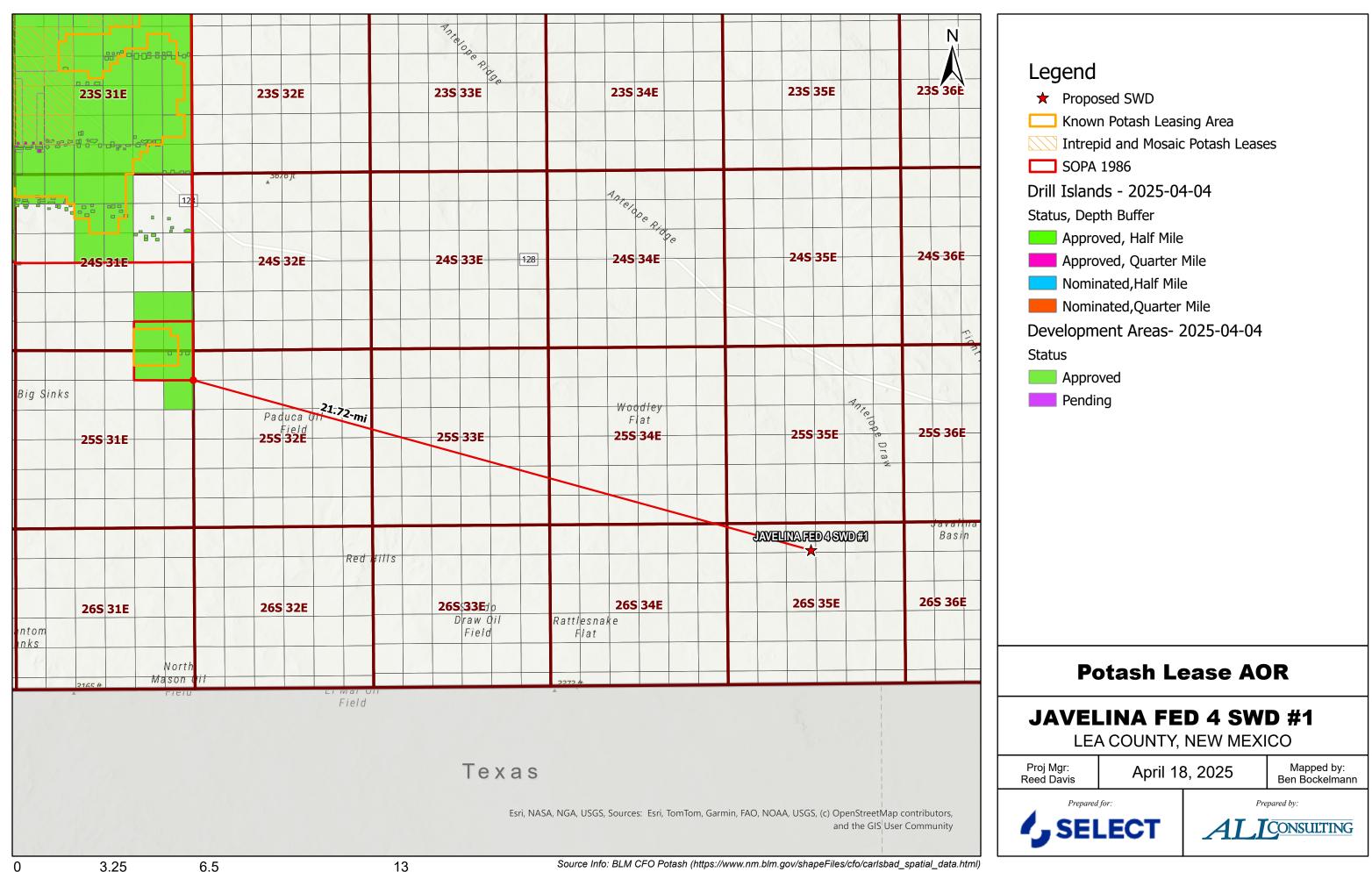




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Source Water Analysis

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	Javelina Fed 4 SWD #1 - Source Water Analysis (Avalon, Bone Spring, Delaware [Brushy Canyon], Wolfcamp, Yeso Group formations)														by (
• Well	Name	АРІ	Latitude	Longitude	Formation	Tds (mg/L)	Sodium (mg/L)	Calcium (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)		H2S (mg/L)	OCD: 8/7
LEAF	RCY MCBUFFINGTON #014	3002520208	32.1239586	-103.1113434	BLINEBRY/TUBB/DRINKARD	63222	-	2750	1	-	566	-	-	-	5216	-	1061	3156	1254	120
CARI	LSON FEDERAL #002	3002511707	32.1103554	-103.1315765	BLINEBRY	122000	-	-	-	-	-	-	-	-	75000	-	488	1740	- 1	123
LAN	GLIE A FEDERAL #001	3002511631	32.1293907	-103.183815	TUBB	307000	-	-	-	-	-	-	-	-	180000	-	244	7380	-	4
RAT	TLESNAKE 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	-	0.7
RAG	N 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	-	4
RAT	TLESNAKE 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	-	-
BELI	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	-	N
BELI	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	-	ı
SALA	ADO 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	-	ı
FIGH	TING 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	-	1
ICHA	BOD 7 FEDERAL #001H	3002540043	32.0511932	-103.5014954	AVALON UPPER	1508.7	317.4	90.7	0	-	55.4	-	-	0	242.4	-	125	675	-	ı

Injection Formation Water Analysis

		Jav	elina Fed 4 S	WD #1 - Injection Formation	Water An	alysis (D	elaware,	Bell Ca	nyon, a	and Cherry	Canyon fo	rmations)						
Well Name	API	Latitude	Longitude	Formation	Tds (mg/L)	Sodium (mg/L)	Calcium (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)	
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.

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Reservoir Characterization

Reservoir Characterization at the Javelina Fed 4 SWD #1

1. Injection Formation and Confinement

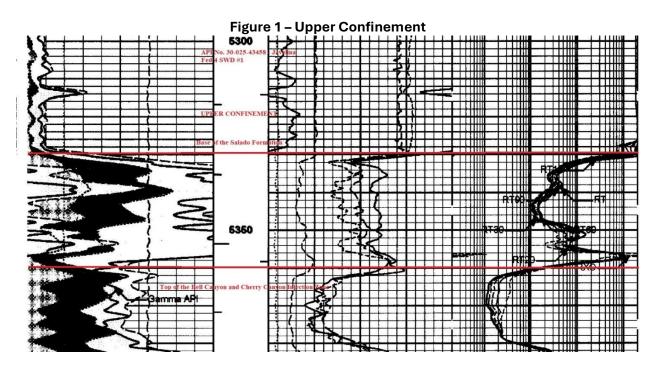
a. Injection Formation

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*.

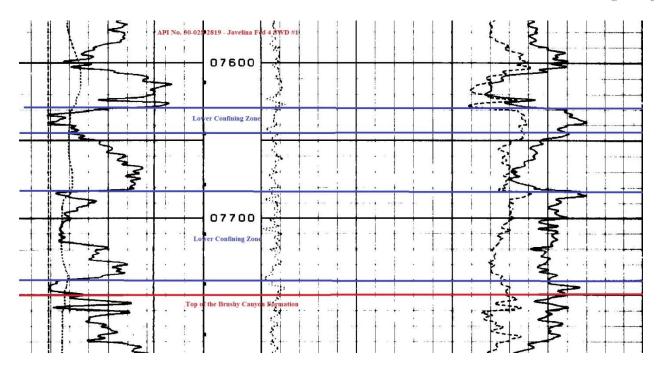


c. Lower Confinement

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



2. Historic Field Usage

a. Offset Production

A review of all wells in the NMOCD database within a 2-mile radius of the Javelina Fed 4 SWD #1 does not show any historic or current hydrocarbon production from the Bell Canyon or Cherry Canyon formations of the Delaware Mountain Group.

b. Commercial Water Sources

A review of all wells in the NMOCD and OSE databases within a 2-mile radius of the Javelina Fed 4 SWD #1 does not show any historic or current commercial water supply sources from the Delaware Mountain Group.

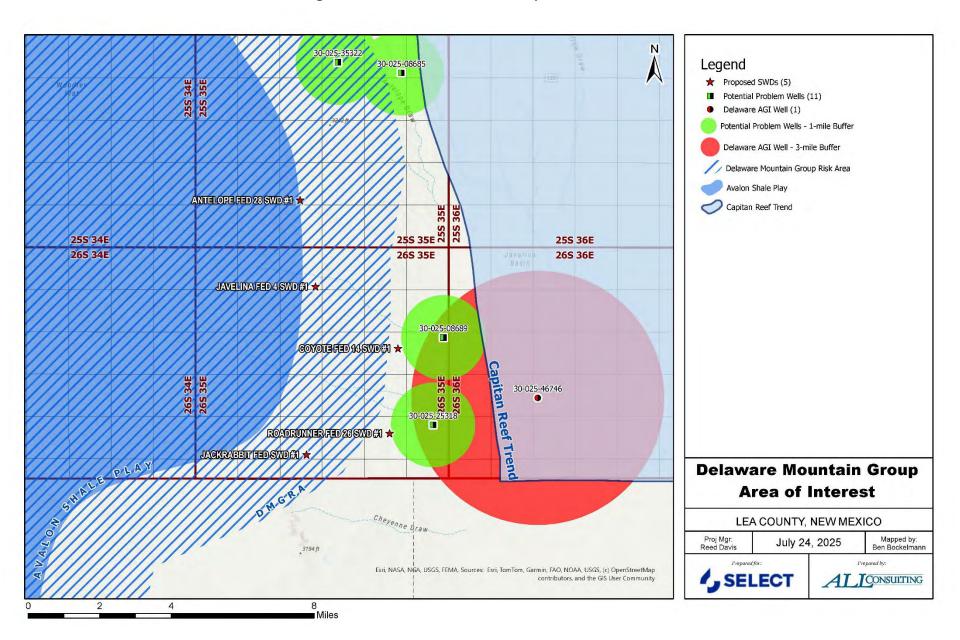
c. Enhanced Oil Recovery

A review of all wells in the NMOCD database within a 2-mile radius of the Javelina Fed 4 SWD #1 does not show any historic or current enhanced oil recovery operations utilizing the overlying Lamar Dolomite, or the underlying Brushy Canyon.

d. Additional OCD Exhibit 11a Requirements

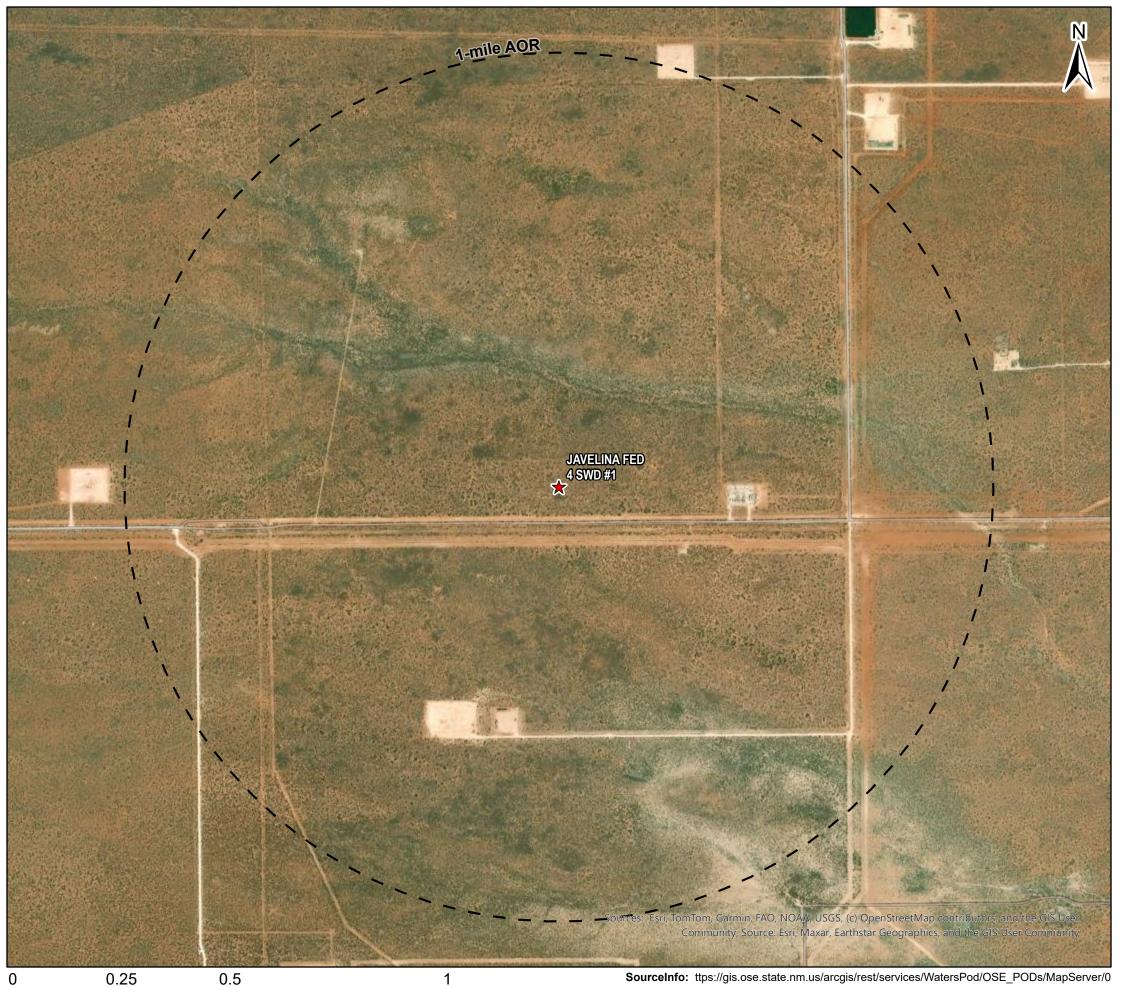
No Delaware Acid Gas Injection wells are located within 3-miles of the proposed Javelina Fed 4 SWD #1. In addition, the proposed SWD is located outside of the Avalon Shale play, the Capitan Reef Trend, and has been positioned more than 1-mile from any identified wells with potential wellbore concerns or lack of data for evaluation (see **Figure 3**).

Figure 3 - Delaware Mountain Group Area of Interest



Water Well Map and Well Data

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Legend

★ Proposed SWD

OSE Water PODs

POD Status

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

1-mile Water Well AOR

JAVELINA FED 4 SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr: Reed Davis

April 18, 2025

Mapped by: Ben Bockelmann





0.5 . ■ Miles

Javelina Fed 4 SWD #1 - Water Well Sampling Rationale					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
Note: There are no water wells within	1-mile of the proposed Javelina Fed 4	SWD #1.			

No Hydrologic Connection Statement



RE: Select Water Solutions LLC – Javelina Fed 4 SWD #1 application, Lea 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 zones in the Bell Canyon and Cherry 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 Lea County, New Mexico. The area is within the South Plain and the surficial geology is Quaternary alluvial deposits consisting predominantly of sand and silt deposits. In this area the depths to 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 1,090 feet below the surface.

Based on ALL's assessment and analysis there is containment through multiple confining zones above the proposed Bell Canyon and Cherry Canyon injection zones and the USDW and over 4,270 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 Bell Canyon and Cherry Canyon injection zones.

Tom Tomastik	June 11, 2025			
Tom Tomastik	Date			
Chief Geologist and Regulatory Specialist				
ALL Consulting LLC				

Attachment 8

List of Affected Persons

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Javelina Fed 4 SWD #1 - Notice of Application Recipients									
Affected Party Classification	Entity - Proof of Notice	Entity - As Mapped/Exhibited Address		City	State	Zip Code			
Surface and Mineral Owner	New Mexico Bureau of Land Management	BLM	620 E Greene St.	Carlsbad	NM	88220			
NMOCD District Office	New Mexico Oil Conservation District 1	N/A	1625 N. French Drive	Hobbs	NM	88240			
Well Operator	Pre-Ongard Well Operator	Max M. Wilson	NA	NA	NA	NA			
Well Operator	Pre-Ongard Well Operator	M. J. Harvey Jr.	NA	NA	NA	NA			
BLM - Lessee and Unit Operator	Devon Energy Production Company, LP	DEVON ENERGY PROD CO LP	333 West Sheridan Ave.	Oklahoma City	OK	73102			
BLM - Lessee	CHEVRON U S A INC	CHEVRON USA INC	6301 Deauville	Midland	TX	79706-2964			
BLM - Unit Operator	COG OPERATING LLC	COG OPERATING LLC	600 W Illinois Ave	Midland	TX	79701			

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

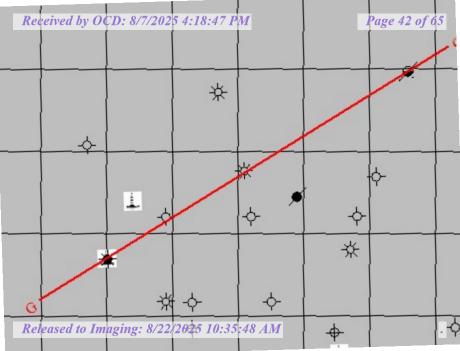
BLM Unit Operators and Lessee information was retrieved from BLM MLRS (https://mlrs.blm.gov/s/).

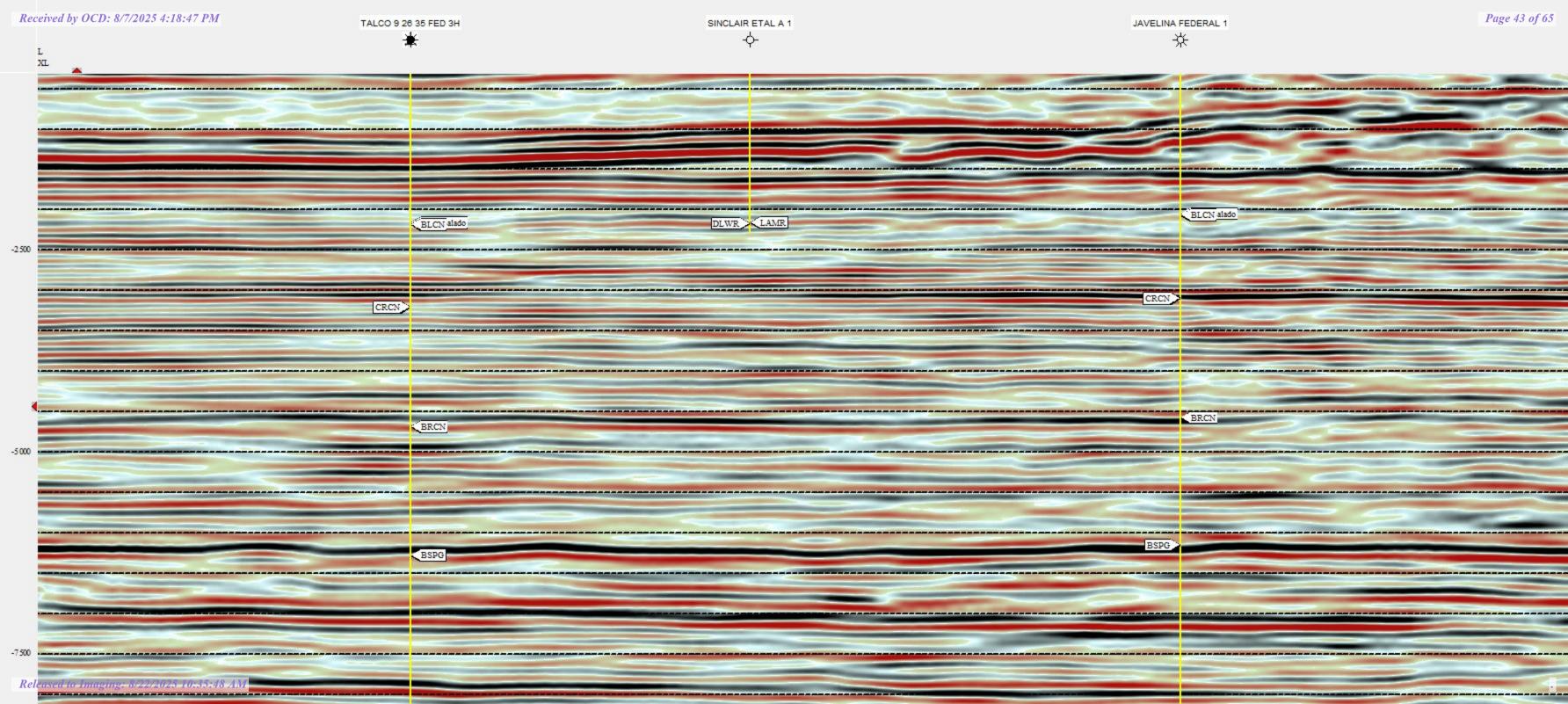
NMSLO Lessee information retreived from NMOCD Operator Search (https://www.apps.emnrd.nm.gov/OCD/OCDPermitting/Operators/Search/OperatorSearch.aspx).

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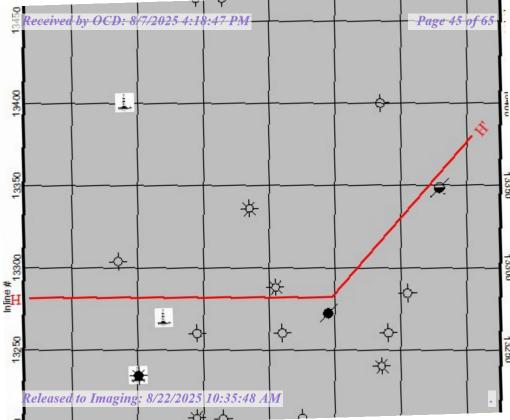
Seismic and Structural Cross Sections

Seismic G-G'

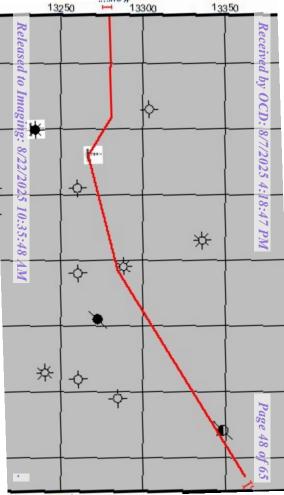


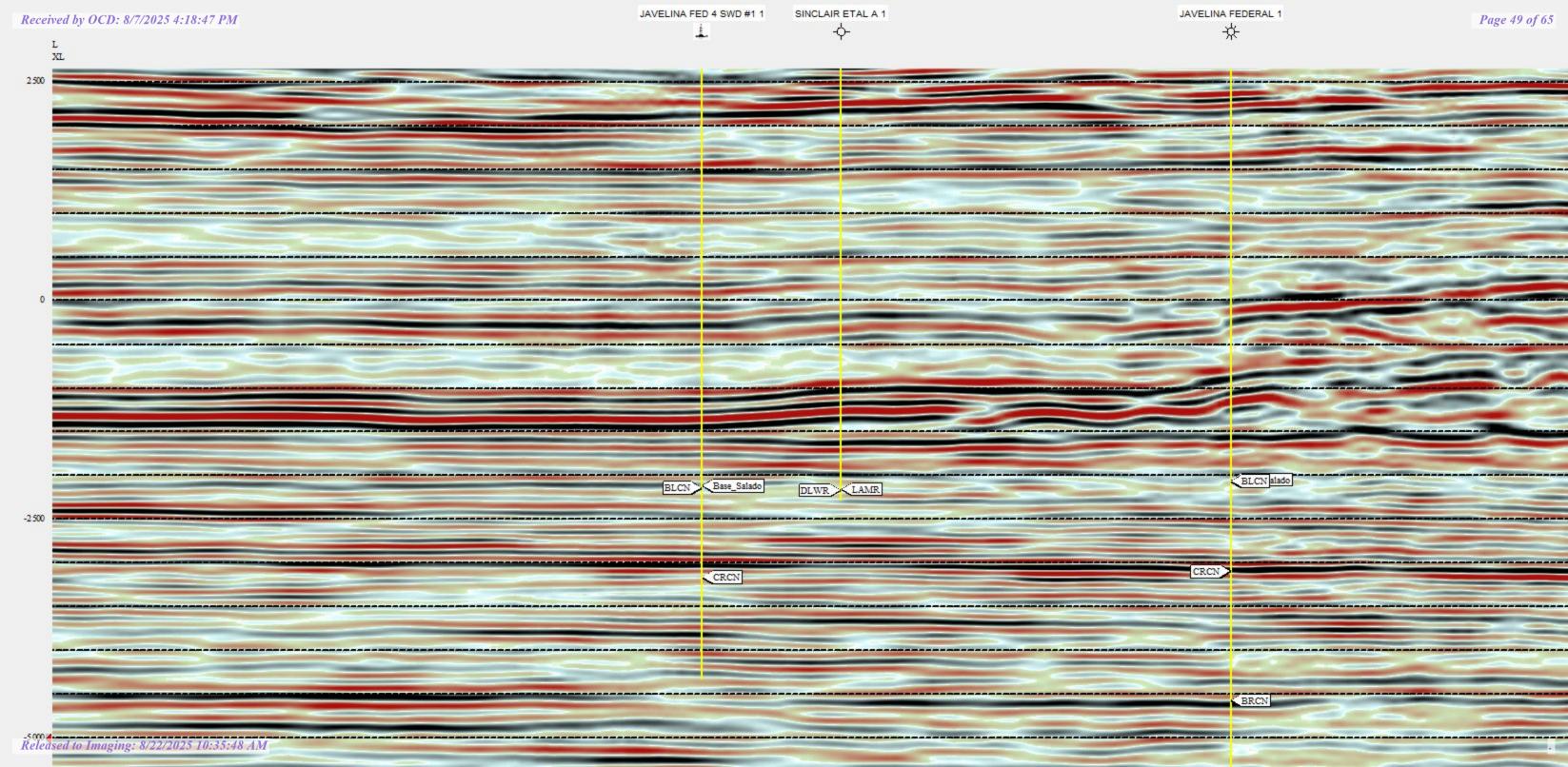


Seismic H-H'

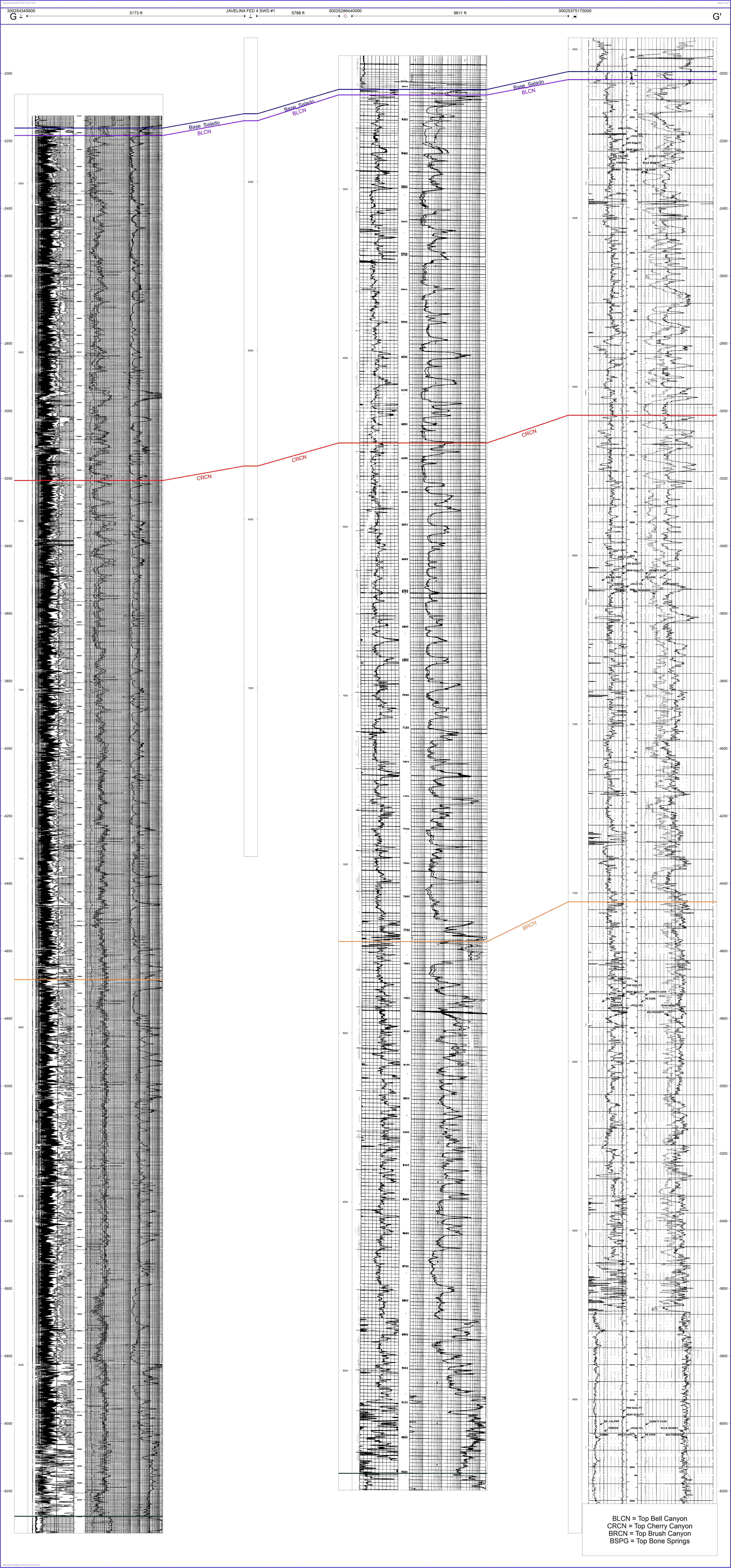


Seismic I-I'

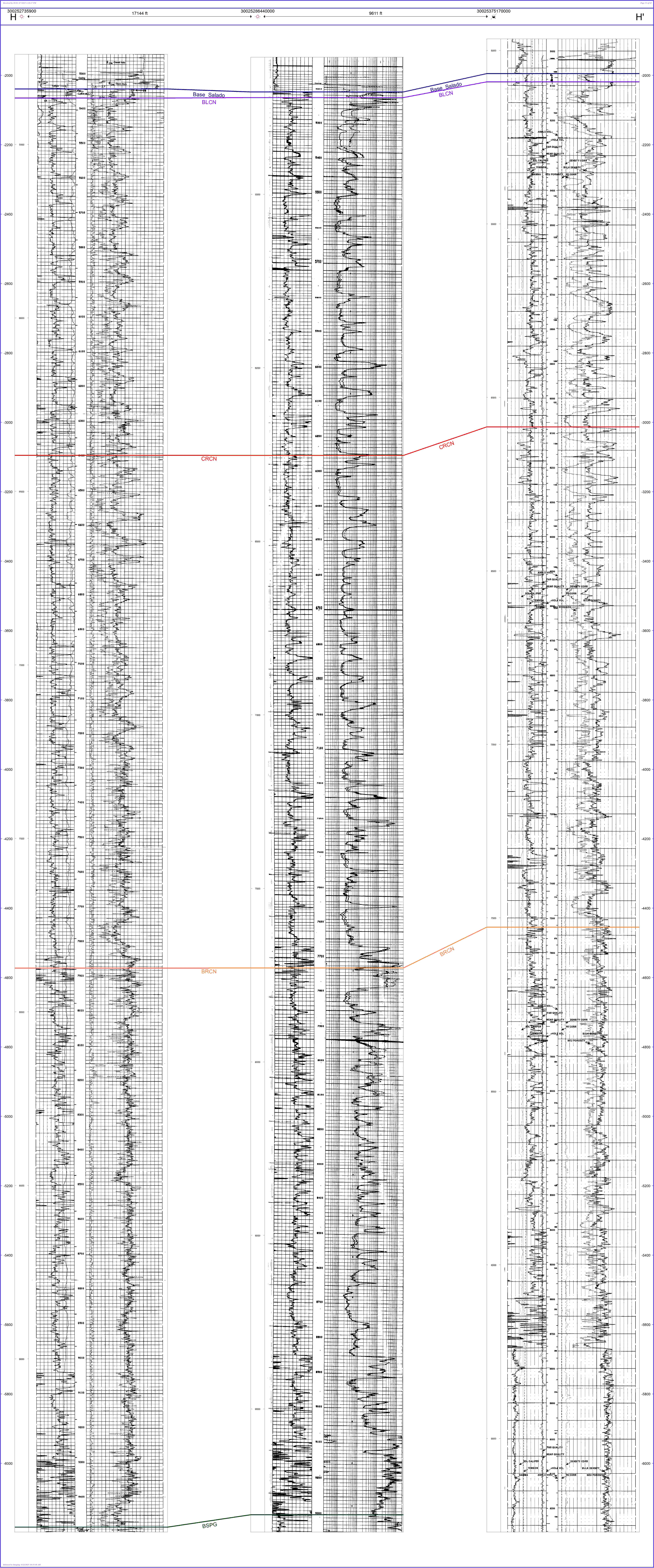




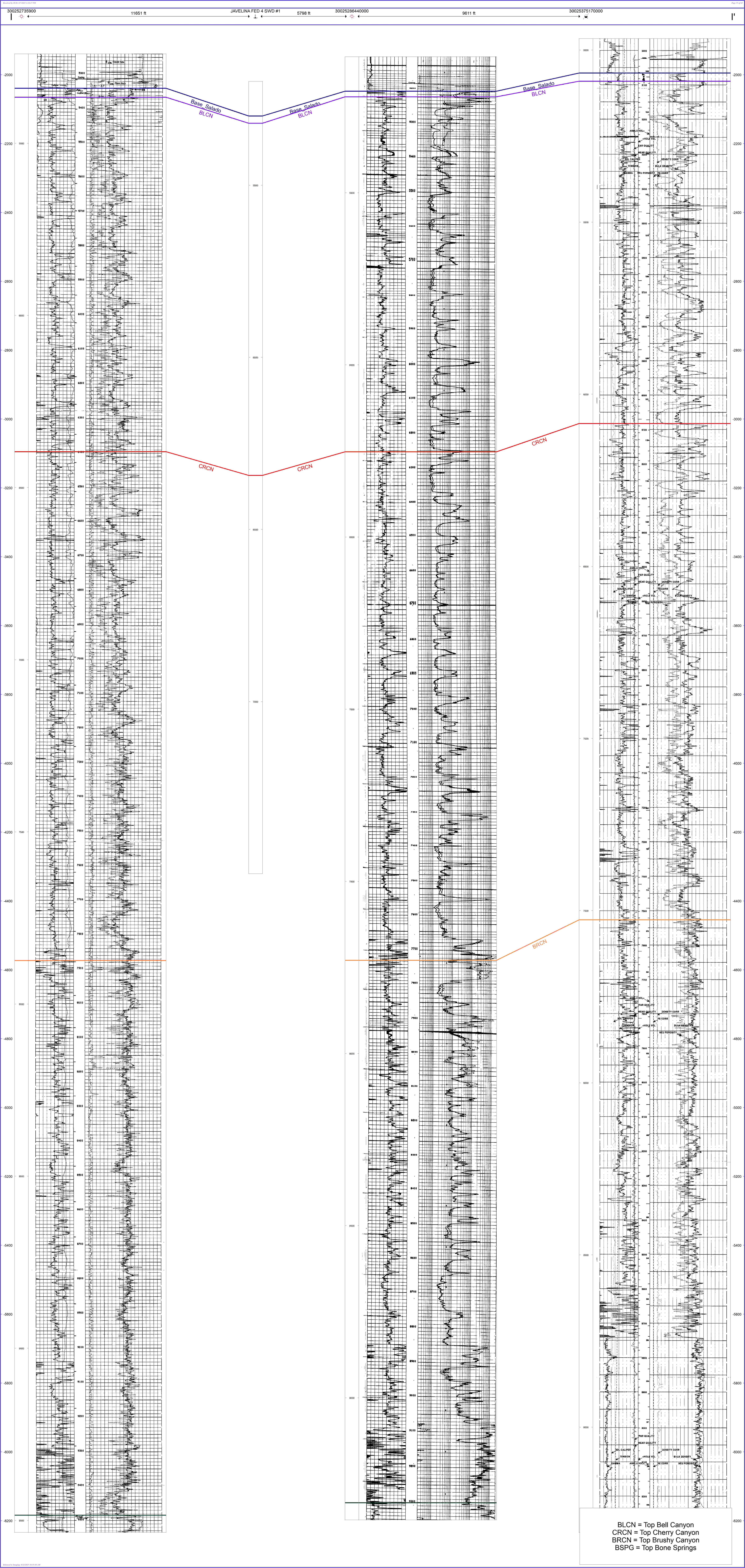
Structural G-G'



Structural H-H'



Structural I-I'



Appendix B

Reservoir Performance Modeling

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Southeast Lea County 5 DMG SWDs east of Jal New Mexico

TASP Group, June 9, 2025

Dave Childers, Sr. Reservoir Engineer



Scope of Work

• Determine:

- Reservoir and geomechanical properties to approximate reservoir and wellbore hydraulics.
- Analyze confining layers and estimate fracture gradients.
- Estimate operational pressure gradients based on maximum injection rates and SWD life.

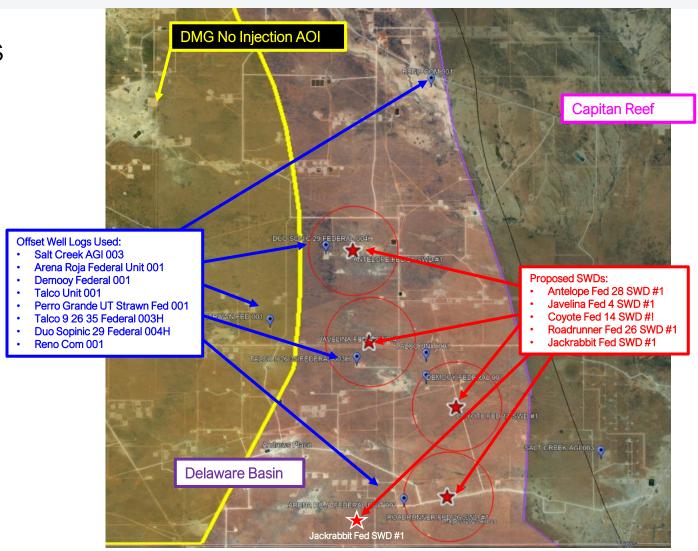
Proposed SWDs:

- Antelope Fed 28 SWD #1
- Javelina Fed 4 SWD #1
- Coyote 14 SWD #1
- Roadrunner Fed 26 SWD #1
- Jackrabbit Fed SWD #1



Locations & Offset Logs

- Review viability of SWD operations based on disposal injection rates.
- DMG Formation Injection Targets
 - Bell Canyon
 - Cherry Canyon
- Confining Layers
 - Lamar (upper interval)
 - Brushy Canyon (lower interval)





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Injection Interval

Well Name			Gross Injection Zone Thickness (ft)	
	Bell Canyon	5,250'		
Antelope Fed 28 SWD #1	Cherry Canyon	6,200'	2,500'	
	Brushy Canyon	7,750'		
	Bell Canyon	5,350'		
Javelina Fed 4 SWD #1	Cherry Canyon	6,450'	2,430'	
	Brushy Canyon	7,780'		
	Bell Canyon	5,200'		
Coyote Fed 14 SWD #1	Cherry Canyon	6,250'	2,350'	
	Brushy Canyon	7,550'		
	Bell Canyon	5,275'		
Roadrunner Fed 26 SWD #1	Cherry Canyon	6,300'	2,475'	
	Brushy Canyon 7,750'			
	Bell Canyon	5,250'		
Jackrabbit Fed SWD #1	Cherry Canyon 6,350'		2,450'	
	Brushy Canyon	7,700'		

Offset Wells used to Estimate Reservoir/Geomechanical Properties

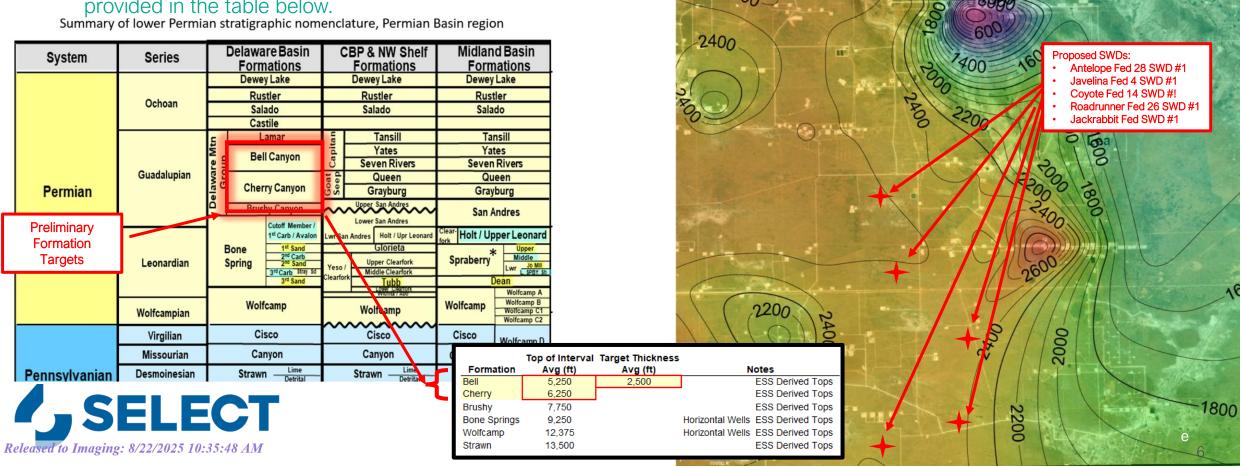
					Logs	Logs Used to Ascertain Reservoir and Geomechanical Properties				
					Porosity	Rock Density	Water or Hydrocarbon bearing Layers	Lithology	Lithology	Geomechanical Properties
API Well Name	Lat. Long.	Interval of Interest	Top of Interval (feet	Thickness				Photoelectric		
300255186500 Salt Creek AGI 003	32° 1'40.67"N 103°16'39.7		1900		Yes	Yes	Yes	Yes	Yes	Yes
		Bell Canyon	5300	1900						
		Cherry Canyon	6200							
		Brushy Canyon (Approximation)	7200							
300253725700 Arena Roja Federal Unit 001	32° 0'44.66"N 103°21'11.3		4876		No	Yes	No	Yes	No	No
		Bell Canyon	5156	2494						
		Cherry Canyon (Approximation	6350							
		Brushy Canyon (Approximation)	7650							
300252253100 Demooy Federal 001	32° 3'8.46"N 103°20'40.9	"W Salado	1900		No	No	No	No	Yes	Yes
		Bell Canyon	5250	2375						
		Cherry Canyon (Approximation	6250							
		Brushy Canyon (Approximation)	7625							
300252674700 Talco Unit 001	32° 3'34.62"N 103°20'41.0		1900		No	No	Yes	No	Yes	Yes
		Bell Canyon	5250	2400						
		Cherry Canyon	6250							
		Brushy Canyon (Approximation)	7650							
300252735900 Perro Grande UT Strawn Fed 001	32° 4'13.84"N 103°24'15.8		1900		No	No	Yes	No	Yes	No
		Bell Canyon	5350	2525						
		Cherry Canyon	6550							
		Brushy Canyon (Approximation)	7875							
300254345800 Talco 9 26 35 Federal 003H	32° 3'30.11"N 103°22'16.5	"W Lamar	5332		Yes	Yes	Yes	Yes	Yes	No
		Bell Canyon	5360	2410						
		Cherry Canyon	6300							
		Brushy Canyon (Approximation)	7770							
300254309000 Duo Sopnic 29 Federal 004H	32° 5'40.23"N 103°22'59.3	"W Lamar	5239		No	No	No	No	No	No
		Bell Canyon	5269	2558						
		Cherry Canyon	6329							
		Brushy Canyon (Approximation)	7827							
300252686700 Reno Com 001	32° 8'55.60"N 103°20'34.6		1900		Yes	Yes	Yes	Yes	No	Yes
		Bell Canyon	5300	2025						
		Cherry Canyon	6180							
		Brushy Canyon (Approximation)	7325							



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Isopach Thickness: Top of Bell Canyon - Bottom of Cherry Canyon

- Zones of interest (ZOI) are Bell Canyon and Cherry Canyon formations.
 - Average depth, thickness, and injection interval is provided in the table below.



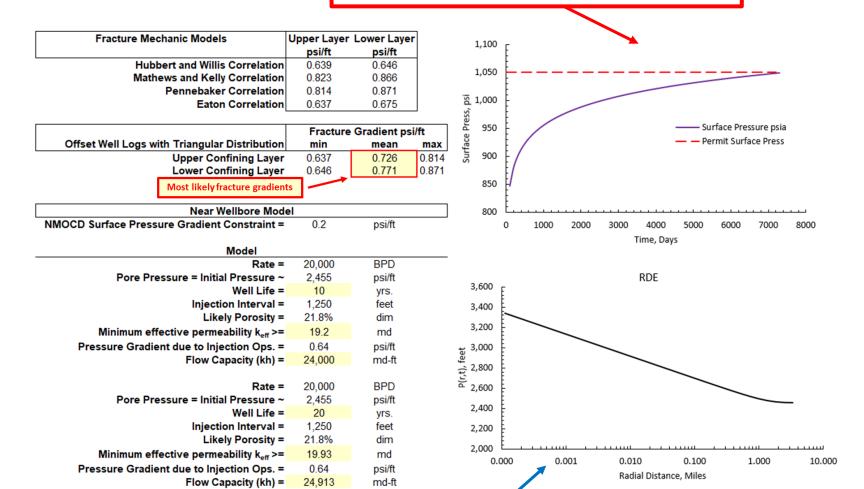
Findings

• Fracture Gradients:

- Fracture Models used to estimate fracture limits (Bourgoyne, 1986).
- Triangular distribution with cumulative distribution function was used to estimate the most probable fracture gradient.
 - Deviation from the most likely facture gradient will result in lower probable fracture gradient outcomes.
- Pressure gradients from injection operations are less than upper and lower confining layer fracture gradients indicating injectate confinement.

N	lear '	W	el	lbore	Hyc	Iraul	ic N	1od	el:
---	--------	---	----	-------	-----	-------	------	-----	-----

• Coupling of reservoir and wellbore hydraulic models to estimate the pressure response as a function of injection rate (*Spivey et.al, 2013, and Lee et.al, 2003*).



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Radial Diffusion Model:

• Estimate of pressure diffusion with respect to SWD well life (Spivey et.al, 2013, and Lee et.al, 2003).

Conclusions

- Injection pressure into the Bell/Cherry Canyon is below the fracture pressures of the upper and lower confining zones (Injectate Confinement).
- Radial Diffusion Model shows that initial pressure of 2,455 psi will be approached at approximately two-miles away from the wellbore with an injection rate of 20k bwpd for 20years.
- Pressure Gradient (PG) near wellbore is approximately 0.64 psi/ft or 12.3 ppg EMW
 - Near Wellbore PG levels are around 0.64 psi/ft for 10 or 20-year time period.
- Simulations presented are for the least amount of flow capacity (kh) needed for disposal. We expect that the kh could be significantly higher due to additional height available and having higher reservoir porosity and permeability contrasts.
 - Step rate test will quantify the actual fracture gradient of the injection zone followed by a pressure fall off test to determine the actual reservoir properties.



References

- Applied Drilling Engineering by Bourgoyne:
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