

**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. 25900**

**SUPPLEMENTAL EXHIBIT INDEX**

In accordance with the Oil Conservation Division's requests at the February 5, 2026 hearing, Select Water Solutions, LLC hereby submits the following Supplemental Exhibits:

- Exhibit G: Revised C-108 Q&A form**
  
- Exhibit H: Proposed Logging Program**
  
- Exhibit I: Revised Wellbore Diagram**
  
- Exhibit J: Seismic Potential Letter**
  
- Exhibit K: Revised Reservoir Modeling Slides**
  
- Exhibit L: Supplemental Self-Affirmed Statement of Dana S. Hardy**
  - L-1 Sample Notice Letter Sent February 16, 2026
  
  - L-2 Postal Delivery Report

Respectfully submitted,

HARDY MCLEAN LLC

/s/ Dana S. Hardy

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*Attorneys for Select Water Solutions, LLC*

**CERTIFICATE OF SERVICE**

I hereby certify that a true and correct copy of the foregoing was served on the following counsel of record via electronic mail on February 19, 2026:

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/s/ Dana S. Hardy

Dana S. Hardy

# **Roadrunner Fed 26 SWD #1 Supplemental Information**

## Roadrunner Fed 26 SWD #1

### Summary of Revisions

1. Clarified conductor casing to be cemented via pump and plug method.
2. Clarified sonic log will be used to analyze geomechanical properties of the injection formation and upper confinement.
3. Added proposed logging program.
4. Added use of DV Tools for cementing intermediate and production casing strings.
5. Added use of on/off tool and landing nipples to SC-2 or equivalent packer.
6. Clarified upper and lower confinement to be the Salado and Castile Formations and Cherry Canyon Formation respectively.
7. Added seismic potential letter.

**Exhibit G**

Revised C-108 Q&A form

Application for Authorization to Inject  
 Well Name: Roadrunner Fed 26 SWD #1

**III – Well Data**

**A.**

**(1) General Well Information:**

Operator: Select Water Solutions, LLC (OGRID No. 289068)  
 Lease Name & Well Number: Roadrunner Fed 26 SWD #1  
 Location Footage Calls: 2,561’ FSL & 2,086’ FEL  
 Legal Location: Lot J, S26 T26S R35E  
 Ground Elevation: 3,013’  
 Proposed Injection Interval: 5,400’ – 6,410’  
 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	910'	685	Surface	Circulation
Intermediate	12-1/4"	9-5/8"	40.0 lb/ft	5,080'	1,395	Surface	Circulation
Production	8-3/4"	7-5/8"	29.7 lb/ft	6,430'	2,345	Surface	CBL
Tubing		5-1/2"	17.0 lb/ft	5,380'			

DV Tools to be utilized for cementing of intermediate and production strings, at appropriate depths pending conditions.

**(3) Tubing Information:**

5-1/2" (17.0 lb/ft) fiberglass or equivalent lined tubing with setting depth of 5,380'.

**(4) Packer Information:** SC-2 or equivalent packer set at 5,380' with on/off tool and landing nipples.

**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 5,400’ – 6,410’

**(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 (7,625')
- Bone Spring (9,215')
- Wolfcamp (12,580')

## 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 Roadrunner Fed 26 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:** 1,080 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 5,400' – 6,410'. 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.

The base of the USDW is the Rustler Formation at a depth of approximately 885 feet. Depth of the nearest water well in the area is approximately 496 feet below ground surface.

## 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. Sonic log will be used to evaluate geomechanical properties of the upper confinement and injection zone.

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.

**Exhibit H**

Proposed Logging Program

### **Logging Program**

Select Water Solutions to collect open-hole log data to further establish the reservoir properties of the upper confining zone and injection interval. Log suite to include Gamma Ray, Neutron-Density, Resistivity and Sonic (compressional and shear) tools (Quad Combo). Select will plan to perform the logging procedure on the first well drilled in the four-well program. Should hole conditions prohibit safe execution of the logging procedure, the next well in the drilling program will be utilized.

The four proposed Delaware Mountain Group SWDs (Javelina Fed 4 SWD #1, Coyote Fed 14 SWD #1, Roadrunner Fed 26 SWD #1, Jackrabbit Fed SWD #1) reside within a geologically similar area in Lea County, New Mexico, and Select believes that this suite of log data collected on one well will be more or less representative of the local geology, confining zone and injection interval of the three other wells in the program.

#### **Run 1:**

TD intermediate section 150'-200' below the base of the Salado and Castile Formations. Requires sufficient rat-hole for tool string, to be confirmed upon selection of logging vendor and tool string lengths.

Run quad-combo log suite from TD up to 250' above base of Salado and Castile Formations. Pull GR-Neutron to surface.

Set casing at base of Salado and Castile Formations and cement.

Drill Injection section.

#### **Run 2:**

TD injection section at proposed TD in the Cherry Canyon.

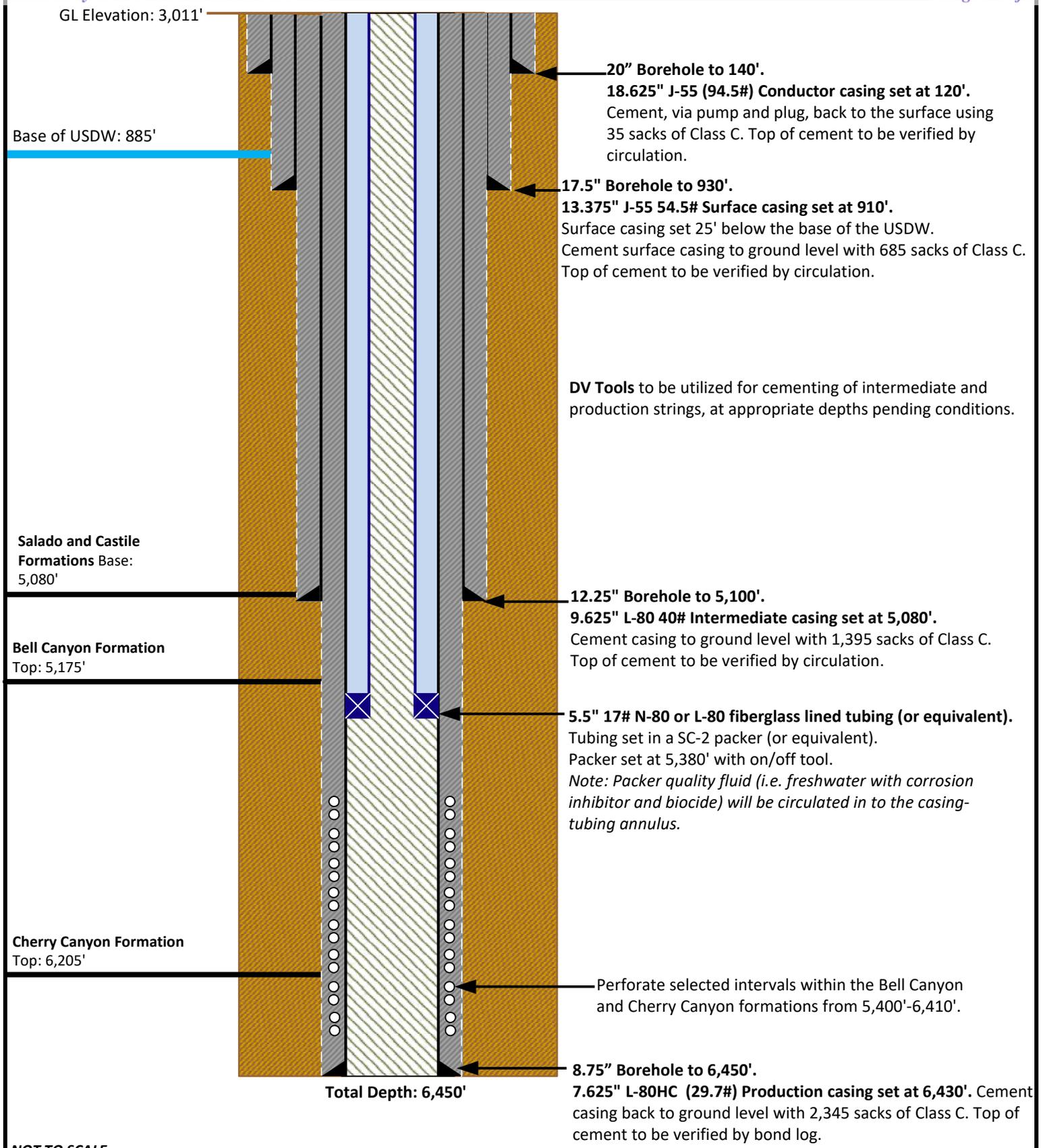
Run quad-combo log suite up to intermediate casing.

Set production casing and cement.

Run radial CBL.

**Exhibit I**

Revised Wellbore Diagram



NOT TO SCALE

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

Revised 2/16/2026 by R.D

Prepared by:

Prepared for:

Drawn by: Joshua Ticknor

Project Manager: Reed Davis

Date: 06/10/2025

**Road Runner Fed 26 SWD #1**  
**Proposed Wellbore Diagram**  
**Operated by Select Water Solutions. LLC**  
**S26, T26S, R35E**  
**Lea County, New Mexico**

**Exhibit J**

Seismic Potential Letter



February 15, 2026

PN 1619.SWD.19

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

Subject: **Select Water Solutions, LLC**  
**Roadrunner Fed 26 SWD #1 - Seismic Potential Letter**

Dear Mr. Goetze,

At the request of Select Water Solutions, LLC (Select), ALL Consulting, LLC (ALL) has assessed the potential injection-induced seismicity risks in the vicinity of Select's Roadrunner Fed 26 SWD #1, a proposed saltwater disposal (SWD) facility in Lea 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 Roadrunner Fed 26 SWD #1 to contribute to seismic activity in the area.

## Geologic Evaluation

The Roadrunner Fed 26 SWD #1 is requesting a permit to inject into the Bell Canyon and Cherry Canyon formations at a depth of 5,400 to 6,410 feet below ground surface (bgs). The Bell Canyon and Cherry Canyon formations of the Delaware Mountain Group consist primarily of sandstones and siltstones with significant primary porosity and permeability. The Bell Canyon is overlain by thousands of feet of tight evaporites within the Salado and Castile Formations, which will prevent the upward migration of fluids and act as the upper confining layer (see **Attachment 1**). Additionally, nearby open hole geophysical logs indicate the proposed Bell Canyon and Cherry Canyon injection interval is underlain by approximately 42 feet of low porosity and permeability rocks within the Cherry Canyon, which will prevent the downward migration of fluids and act as the lower confining layer (see **Attachment 2**). A stratigraphic chart depicting the geologic setting is included as **Figure 1**.<sup>1</sup>

## Seismic Events and Fault Data

A review of United States Geological Survey (USGS) and New Mexico Tech Seismological Observatory (NMTSO) earthquake catalogues determined that **fifty-eight (58) seismic events M2.5 or larger** have been recorded within 10 miles of the proposed Roadrunner Fed 26 SWD

<sup>1</sup> 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>

Select Water Solutions, LLC  
 Roadrunner Fed 26 SWD #1 Seismic Information  
 February 15, 2026

#1. The closest recorded seismic event was a M1.51 that occurred on June 15<sup>th</sup>, 2025, and was located approximately 0.76 miles southeast of the Roadrunner Fed 26 SWD #1 (see **Attachment 3**). All M2.5 or larger events were recorded at 4.97 km or deeper, far below the proposed injection interval in the Precambrian basement.

Fault data from United States Geological Survey (USGS) and the Texas Bureau of Economic Geology (BEG)<sup>2</sup> indicates that the closest known shallow fault is located approximately 9.05 miles east of the Roadrunner Fed 26 SWD #1 (see **Attachment 3**). Several Precambrian basement faults were identified within 10 miles of the Roadrunner Fed 26 SWD #1, however these identified faults are approximately 6,590 feet below the proposed injection interval.<sup>3</sup>

**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.<sup>4</sup>

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.<sup>4</sup> 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.

**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	CHESTER MERAMEC OSAGE	CHESTER MERAMEC OSAGE
	KINDERHOOKIAN	KINDERHOOK WOODFORD DEVONIAN	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			

<sup>2</sup> 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.

<sup>3</sup> 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).

<sup>4</sup> 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.

Select Water Solutions, LLC  
Roadrunner Fed 26 SWD #1 Seismic Information  
February 15, 2026

Geophysical data from nearby well records, aeromagnetic surveys, and gravity surveys indicate the top of the Precambrian basement to be approximately 13,000 feet bgs at the Roadrunner Fed 26 SWD #1, or approximately 6,590 feet below the proposed injection interval.<sup>3</sup> In addition, publicly available fault data does not indicate any transmissive faulting is present above the Precambrian basement around the Roadrunner Fed 26 SWD #1. **There are insufficient Precambrian basement penetrations and/or well data regarding Precambrian basement depth to generate an accurate structural contour map of the Precambrian basement in the vicinity of the proposed SWD.**

Per the NMTSO seismic catalog, the nearest reported event was a M1.51 which occurred on June 15<sup>th</sup>, 2025, 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.

Class II SWDs in New Mexico are administratively permitted with a maximum pressure gradient of 0.2 psi/ft. Select will be performing a step-rate test at the well once drilled to determine fracture gradients of the formations. Typical SWD permitting standards in New Mexico would indicate that formation parting pressure would not be exceeded by the Roadrunner Fed 26 SWD #1.

**Conclusion**

As experts on the issue of induced seismicity, seismic monitoring, and mitigation, it is our opinion that the potential for the Roadrunner Fed 26 SWD #1 to cause injection-induced seismicity is expected to be minimal. This conclusion assumes the Roadrunner Fed 26 SWD #1 will be operated below formation parting pressure and is based on (1) the presence of numerous confining layers above and below the injection interval, (2) the vertical and lateral distance between the injection zone and Precambrian basement rock in which the nearest fault has been identified, and (3) the lack of historic shallow seismicity near the proposed Roadrunner Fed 26 SWD #1.

Sincerely,  
ALL Consulting



Reed Davis  
Geophysicist



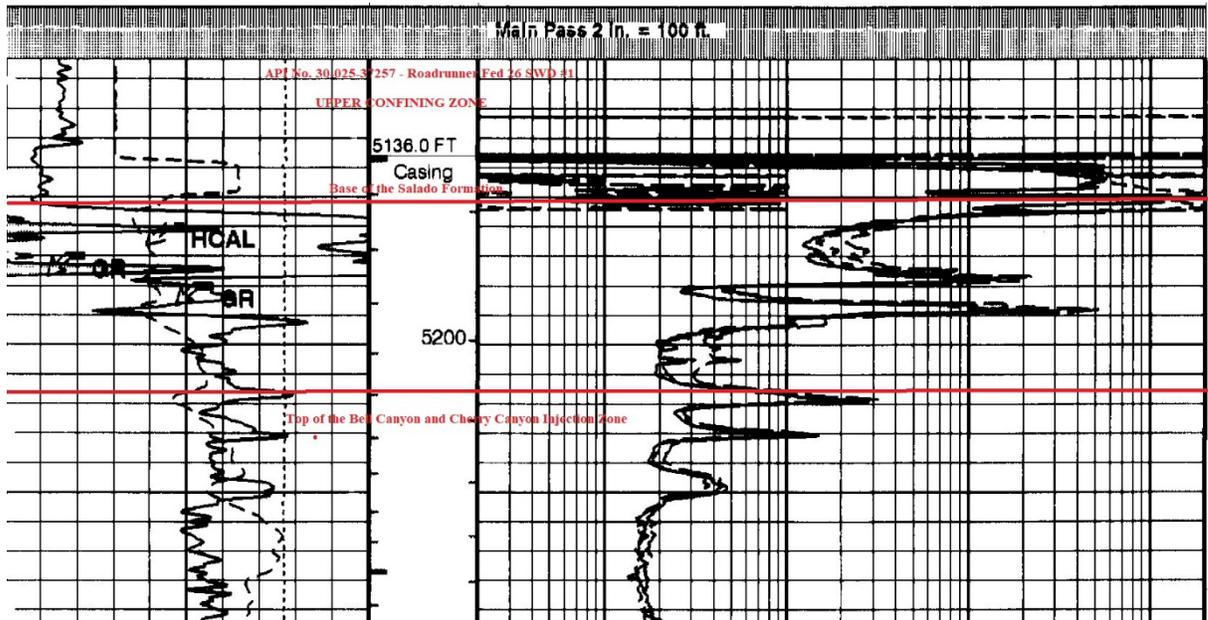
Thomas Tomastik  
Chief Geologist

Select Water Solutions, LLC  
Roadrunner Fed 26 SWD #1 Seismic Information  
February 15, 2026

**Attachment 1**  
**Upper Confining Zone**

Select Water Solutions, LLC  
Roadrunner Fed 26 SWD #1 Seismic Information  
February 15, 2026

### Upper Confining Zone from API No. 025-37257

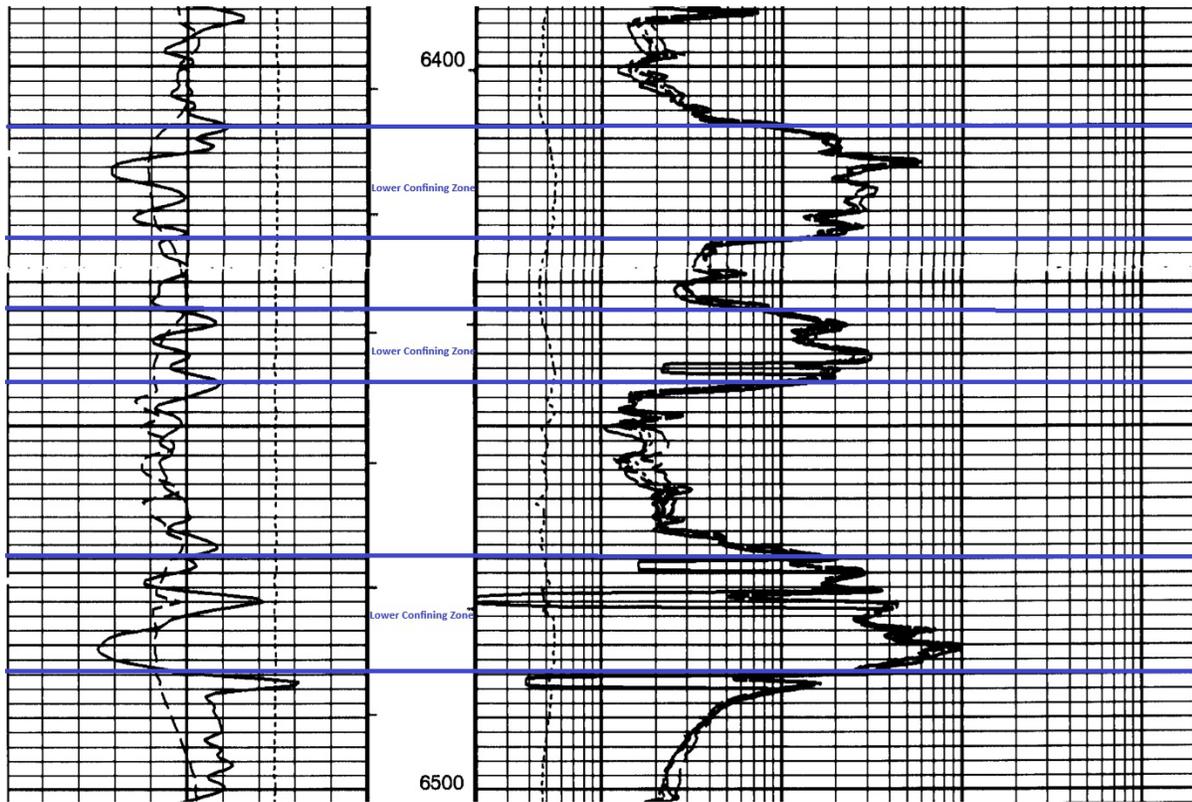


Select Water Solutions, LLC  
Roadrunner Fed 26 SWD #1 Seismic Information  
February 15, 2026

**Attachment 2**  
**Lower Confining Zone**

Select Water Solutions, LLC  
Roadrunner Fed 26 SWD #1 Seismic Information  
February 15, 2026

**Lower Confining Zone from API No. API No. 025-37257**

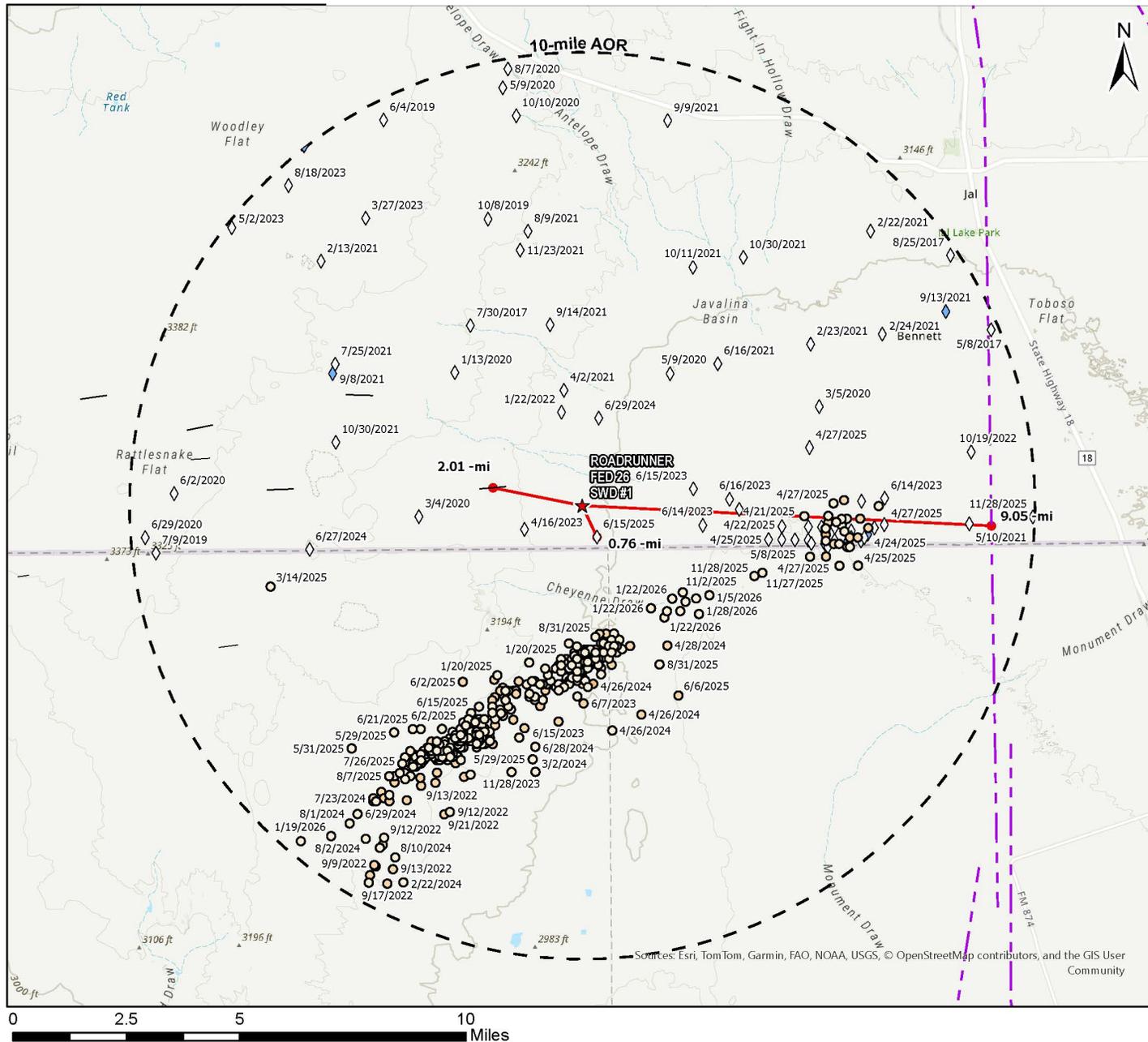


Select Water Solutions, LLC  
Roadrunner Fed 26 SWD #1 Seismic Information  
February 15, 2026

**Attachment 3**  
**Seismic Analysis Map**

Select Water Solutions, LLC  
 Roadrunner Fed 26 SWD #1 Seismic Information  
 February 15, 2026

### Roadrunner Fed 26 SWD #1 Nearby Seismic Events and Faults



#### Legend

★ Proposed SWDs

--- Shallow Faults

Stress Orientations (Lund, Snee, Zoback 2020)

Indicator, Quality

| Wellbore, A (5)

| Wellbore, B (2)

| Wellbore, C (2)

USGS Seismic Events - 2/10/2026

Magnitude

○ 0.0 - 2.0 (291)

○ 2.1 - 3.0 (124)

○ 3.1 - 4.0 (6)

○ 4.1 - 5.0 (0)

○ 5.1 - 5.4 (0)

NMTSO Seismic Events - 2/11/2026

Magnitude

◇ 0 - 2.0 (71)

◇ 2.1 - 3.0 (7)

◇ 3.1 - 4.0 (1)

◇ 4.1 - 4.5 (0)

### Seismic Analysis AOR

### ROADRUNNER FED 26 SWD #1

LEA COUNTY, NEW MEXICO

Proj Mgr:  
Reed Davis

February 11, 2026

Mapped by:  
Ben Bockelmann

Prepared for:  
**SELECT**

Prepared by:  
**ALL CONSULTING**

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

**Exhibit K**

Revised Reservoir Modeling Slides



# Southeast Lea County Four DMG SWDs east of Jal New Mexico

TASP Group, February 5, 2026  
Dave Childers, Sr. Reservoir Engineer



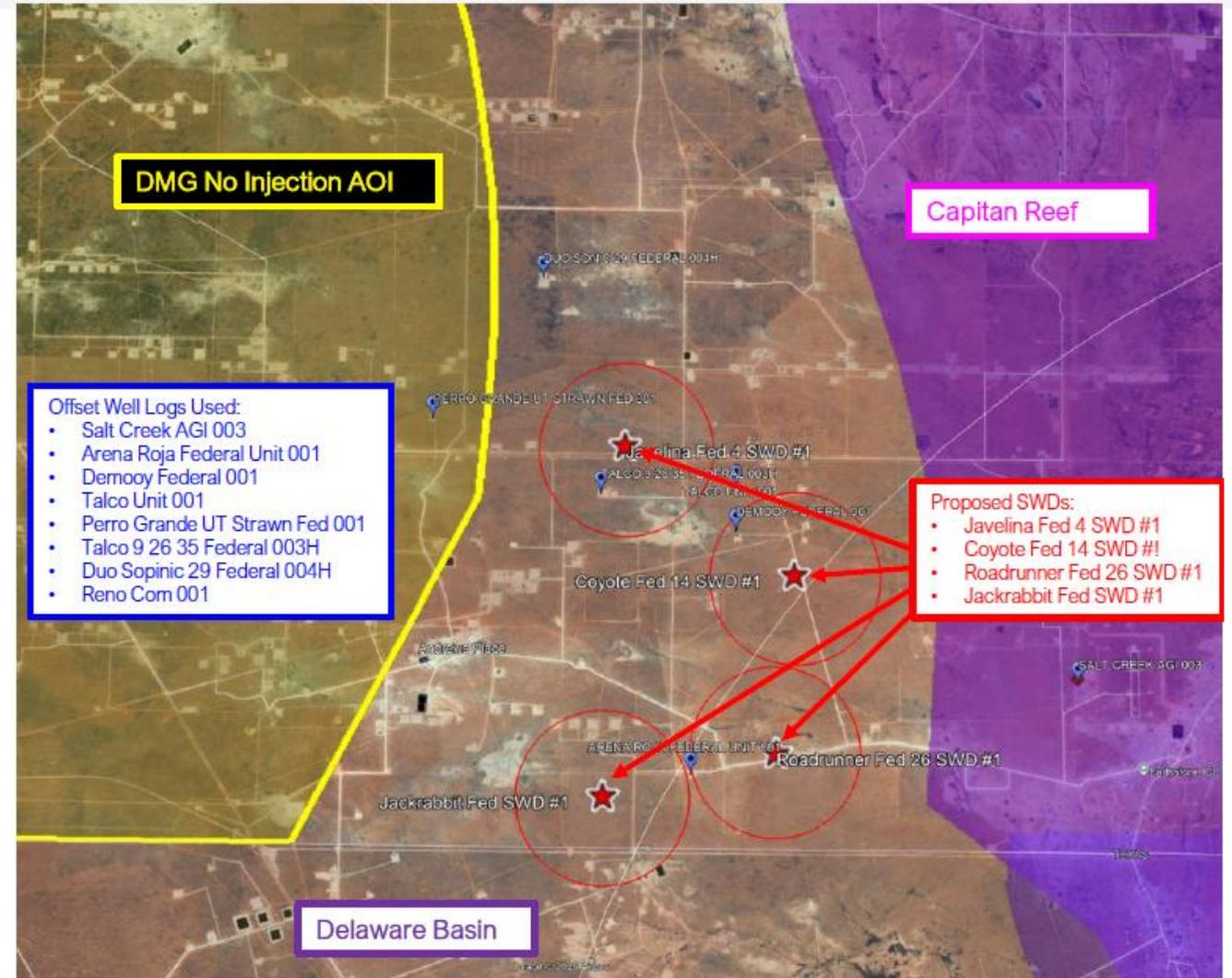
# Scope of Work

- 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:
  - 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
  - Salado (upper confining interval, 100' below the top of the interval)
  - Cherry Canyon (lower interval, bottom portion of the Cherry Canyon)



# Injection Interval

Well Name	Target Interval	Top of Interval Approximate (ft)	Gross Injection Zone Thickness (ft)
Javelina Fed 4 SWD # 1	Bell Canyon	5,405	1,095
	Cherry Canyon	6,275	
	Base of Injection Zone	6,500	
	Brushy Canyon	7,780	
Coyote Fed 14 SWD # 1	Bell Canyon	5,275	1,145
	Cherry Canyon	6,180	
	Base of Injection Zone	6,420	
	Brushy Canyon	7,550	
Roadrunner Fed 26 SWD # 1	Bell Canyon	5,400	1,010
	Cherry Canyon	6,205	
	Base of Injection Zone	6,410	
	Brushy Canyon	7,750	
Jackrabbit Fed SWD # 1	Bell Canyon	5,365	1,135
	Cherry Canyon	6,275	
	Base of Injection Zone	6,500	
	Brushy Canyon	7,700	

# Offset Wells used to Estimate Reservoir/Geomechanical Properties

							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	Neutron	Density	Resistivity	Photoelectric	Gamma Ray	Sonic DT	
300255186500	Salt Creek AGI 003	32° 1'40.67"N	103°16'39.73"W	Saldo	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°21'11.39"W	Salt	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°20'40.96"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°20'41.02"W	Saldo	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°24'15.85"W	Saldo	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°22'16.54"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°22'59.30"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°20'34.62"W	Saldo	1900		Yes	Yes	Yes	Yes	No	Yes	
				Bell Canyon	5300	2025							
				Cherry Canyon	6180								
				Brushy Canyon (Approximation)	7325								



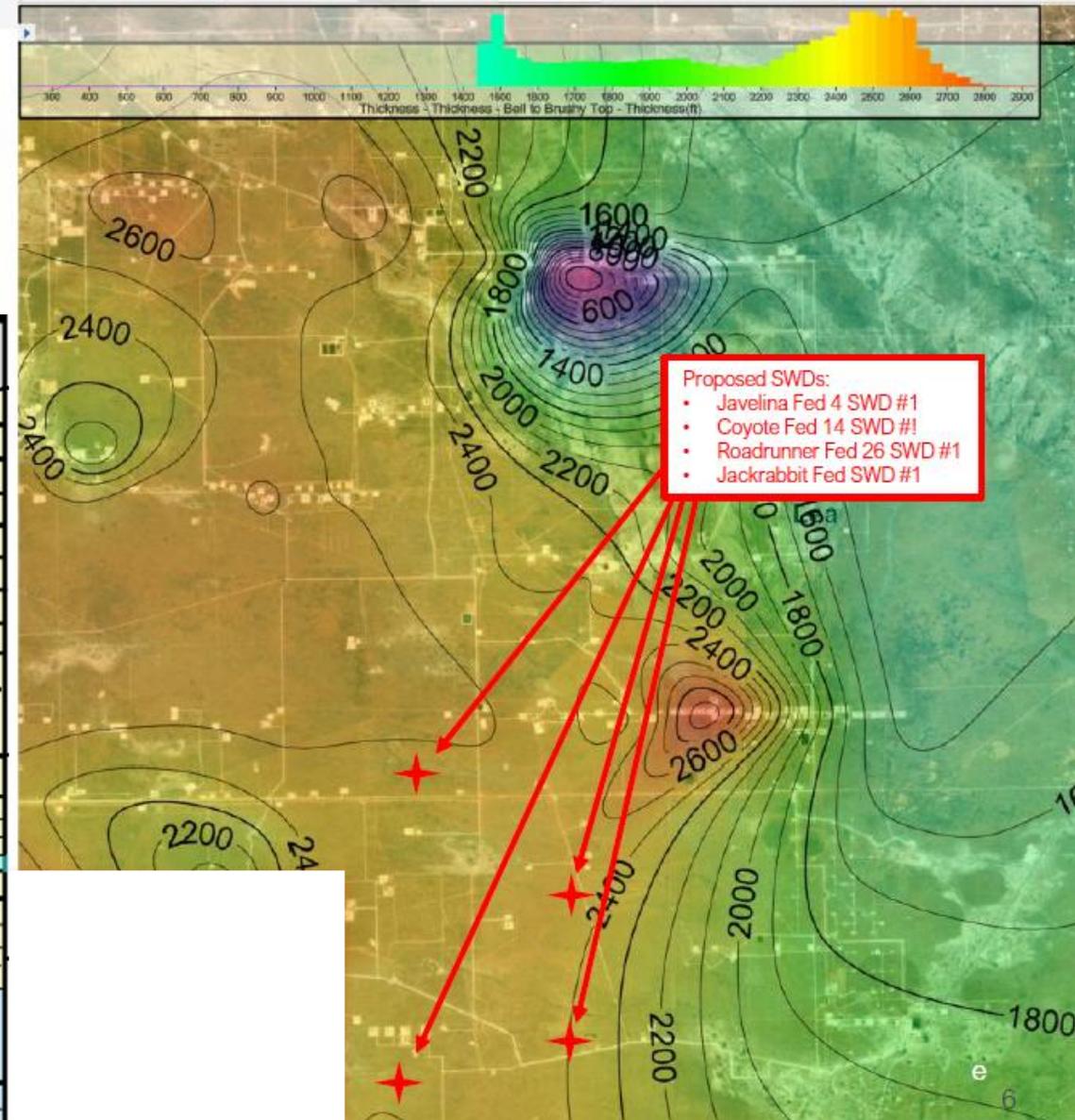
# Isopach Thickness: Top of Bell Canyon - Bottom of Cherry Canyon

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

Summary of lower Permian stratigraphic nomenclature, Permian Basin region

System	Series	Delaware Basin Formations	CBP & NW Shelf Formations	Midland Basin Formations	
Permian	Ochoan	Dewey Lake	Dewey Lake	Dewey Lake	
		Rustler	Rustler	Rustler	
		Salado	Salado	Salado	
		Castile			
		Lamar	Tansill	Tansill	
	Guadalupian	Delaware Mtn Group	Bell Canyon	Seep	Yates
			Cherry Canyon	Seep	Seven Rivers
				Seep	Queen
				Seep	Grayburg
				Seep	San Andres
	Leonardian	Bone Spring	Cutoff Member / 1 <sup>st</sup> Carb / Avalon	Upper San Andres	Holt / Upper Leonard
			1 <sup>st</sup> Sand	Lower San Andres	Glorieta
			2 <sup>nd</sup> Carb	Yeso / Clearfork	Upper Clearfork
			2 <sup>nd</sup> Sand	Yeso / Clearfork	Middle Clearfork
			3 <sup>rd</sup> Carb	Yeso / Clearfork	Tubb
Wolfcampian		Wolfcamp	3 <sup>rd</sup> Sand	Wolfcamp	Wolfcamp
				Wolfcamp	Wolfcamp A
				Wolfcamp	Wolfcamp B
				Wolfcamp	Wolfcamp C1
				Wolfcamp	Wolfcamp C2
Virgilian	Cisco	Cisco	Cisco	Cisco	
		Canyon	Canyon	Canyon	
Missourian	Canyon	Canyon	Canyon	Wolfcamp D	
		Strawn	Strawn	Strawn	
Pennsylvanian	Desmoinesian	Lime Detrital	Lime Detrital	Lime Detrital	
		Strawn	Strawn	Strawn	

Formation Targets



# 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 fracture 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.

### Near Wellbore Hydraulic Model:

- 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*).

Fracture Mechanic Models	Upper Layer	Lower Layer
	psi/ft	psi/ft
Hubbert and Willis Correlation	0.839	0.648
Mathews and Kelly Correlation	0.823	0.868
Pennbaker Correlation	0.814	0.871
Eaton Correlation	0.637	0.675

Offset Well Logs with Triangular Distribution	Fracture Gradient psi/ft		
	min	mean	max
Upper Confining Layer	0.637	0.726	0.814
Lower Confining Layer	0.646	0.771	0.871

**Most likely Fracture Gradients**

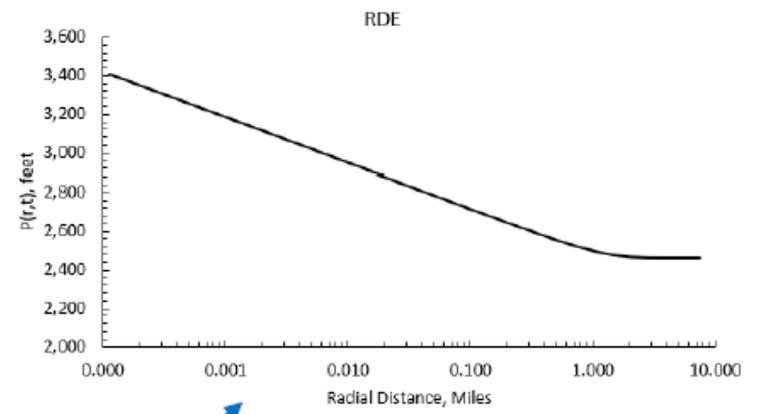
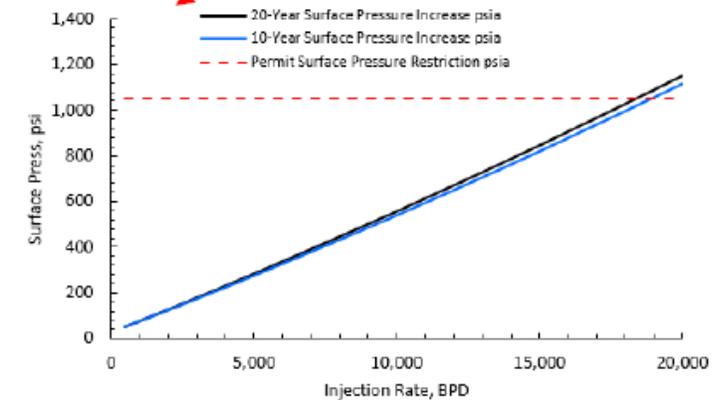
Near Wellbore Model		
NMOCD Surface Pressure Gradient Constraint =	0.2	psi/ft

Model		
Rate =	20,000	BPD
Pore Pressure = Initial Pressure ~	2,455	psi/ft
Well Life =	10	yrs.
Injection Interval =	1,125	feet
Likely Porosity =	21.8%	dim
Minimum effective permeability $k_{eff} >=$	19.2	md
Pressure Gradient due to Injection Ops. =	0.64	psi/ft
Flow Capacity (kh) =	21,800	md-ft

Rate =	20,000	BPD
Pore Pressure = Initial Pressure ~	2,455	psi/ft
Well Life =	20	yrs.
Injection Interval =	1,125	feet
Likely Porosity =	21.8%	dim
Minimum effective permeability $k_{eff} >=$	19.93	md
Pressure Gradient due to Injection Ops. =	0.64	psi/ft
Flow Capacity (kh) =	22,421	md-ft



### 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 20-years.
- 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:
  - Bourgoyne, A. T., Millheim, K. K., Chenevert, M. E., & Young, F. S. (1986). Applied drilling engineering. Society of Petroleum Engineers.
- Applied Well Test Interpretation by Spivey and Lee
  - Spivey, J. P., & Lee, W. J. (2013). Applied well test interpretation. Society of Petroleum Engineers.
- Pressure Transient Analysis by Lee, Rollins, and Spivey (SPE Textbook Volume 9)
  - Lee, W. J., Rollins, J. B., & Spivey, J. P. (2003). Pressure transient testing (Vol. 9). Society of Petroleum Engineers.

**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. 25900**

**SUPPLEMENTAL SELF-AFFIRMED  
STATEMENT OF DANA S. HARDY**

1. I am attorney in fact and authorized representative of Select Water Solutions LLC, the Applicant herein.
2. I am familiar with the Notice Letter attached as **Exhibit L-1**, and caused the Notice Letter, along with the Application in this case, to be sent to the City of Jal, as listed in the Postal Delivery Report attached as **Exhibit L-2**.
3. Exhibit L-2 also provides the date the Notice Letter was sent, along with the delivery status.
4. I understand this Supplemental Self-Affirmed Statement will be used as written testimony in the subject case. I affirm that my testimony above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

/s/ Dana S. Hardy  
Dana S. Hardy

February 19, 2026  
Date

**Select Water Solutions, LLC  
Case No. 25900  
Exhibit L**



**VIA CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

February 16, 2026

**TO: ALL PARTIES ENTITLED TO NOTICE**

**Re: Case No. 25900 – Application of Select Water Solutions, LLC for Approval of a Saltwater Disposal Well, Lea County, New Mexico.**

To whom it may concern:

This letter is to advise you that the enclosed application was filed with the New Mexico Oil Conservation Division. A complete copy of the Form C-108 is available at the following website link: <https://ocdimage.emnrd.nm.gov/imaging/CaseFileView.aspx?CaseNo=25900>. Please contact my office if you would like a hard copy. The hearing will be conducted on **February 5, 2026**, beginning at 9:00 a.m.

The hearing will be conducted in a hybrid fashion, both virtually and in-person at the Energy, Minerals, Natural Resources Department, Wendell Chino Building, Pecos Hall, 1220 South St. Francis Drive, 1<sup>st</sup> Floor, Santa Fe, NM 87505. The hearing may be held only virtually at the discretion of the Division. To confirm the manner in which the hearing will be held, and to participate virtually, please visit the OCD Hearings website at the following link: <https://www.emnrd.nm.gov/ocd/hearing-info/>. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Pursuant to Division Rule 19.15.4.13.B, a party who intends to present evidence at the hearing shall file a pre-hearing statement and serve copies on other parties, or the attorneys of parties who are represented by counsel, at least four business days prior to the scheduled hearing, but in no event later than 5:00 p.m. Mountain Time, on the Thursday preceding the scheduled hearing date. If you are not registered with the OCD’s E-Permitting system, you must submit the statement via e-mail to [ocd.hearings@emnrd.nm.gov](mailto:ocd.hearings@emnrd.nm.gov) and should include: the names of the parties; whether or not the parties are represented by counsel; a concise statement of the case; the names of witnesses anticipated to be called to testify at the hearing; the approximate amount of time needed to present the case; and an identification of any procedural matters that are to be resolved prior to the hearing.

If you have any questions about this application, please contact Reed Davis, Geophysicist with ALL Consulting, LLC, at [rdavis@all-llc.com](mailto:rdavis@all-llc.com).

Sincerely,  
*/s/ Dana S. Hardy*  
Dana S. Hardy

125 Lincoln Avenue, Suite 223  
Santa Fe, NM 87501  
505-230-4410

HardyMclean.com

**Writer:**  
Dana S. Hardy  
Senior Managing Partner  
[dhardy@hardymclean.com](mailto:dhardy@hardymclean.com)

**Select Water Solutions, LLC**  
**Case No. 25900**  
**Exhibit L-1**

## Postal Delivery Report

### Select Water Solutions Roadrunner - Case No. 25900

Recipient	Date Mailed	USPS Tracking Number	Date Received	Status
City of Jal	2/16/2026	9414836208551295157360	N/A	Arrived at USPS Facility. Expected delivery Saturday February 21, 2026

Select Water Solutions, LLC  
Case No. 25900  
Exhibit L-2