

AE Order Number Banner

Application Number: pDZD2626138052

Initial Application Part I

SWD-2712

RILEY PERMIAN OPERATING COMPANY, LLC [372290]

Received: 9/15/2026



Date: September 25th, 2025

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

Subject: Riley Permian Operating Company, LLC (OGRID No. 372290)
Application for Authorization Inject – The Man In Me 7 State SWD #001

To Whom it May Concern,

On behalf of Riley Permian Operating Company, LLC, ALL Consulting, LLC is submitting the enclosed Application for Authorization to Inject for The Man In Me 7 State SWD #001, a proposed saltwater disposal well, in Eddy County, NM.

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

Sincerely,
ALL Consulting

Reed Davis
Geophysicist

ALL Consulting
Phone 918.382.7581

1718 South Cheyenne Ave.
Fax 918.382.7582

Tulsa, OK 74119
www.ALL-LLC.com

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance x Disposal Storage
Application qualifies for administrative approval? x Yes No
- II. OPERATOR: Riley Permian Operating Company ,LLC
ADDRESS: 29 E Reno Avenue, Suite 500, Oklahoma City, OK 73104
CONTACT PARTY: Spence Laird PHONE: 405-543-1411
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes x No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Reed Davis TITLE: Geophysicist
SIGNATURE:  DATE: September 25, 2025
E-MAIL ADDRESS: rdavis@llc.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: File Electronically Via OCD Permitting

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND
 REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Riley Permian Operating Company, LLC.**OGRID Number:** 372290**Well Name:** The Man In Me 7 State SWD #001**API:** _____**Pool:** SWD; Wolfcamp and SWD; Cisco-Canyon**Pool Code:** 96135 and 96186

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

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

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

- 3) CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Reed Davis

Print or Type Name

Signature

September 25, 2025

Date

918-382-7581

Phone Number

rdavis@all-llc.com

e-mail Address



September 14, 2026

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504
Attn: OCD UIC Group

Re: C-108 Application & Supplemental Data
The Man In Me 7 State SWD No. 1 (API No. N/A)
186' FNL & 783' FEL (Unit A) Section 7, T-18S, R-28E, NMPM
Eddy County, New Mexico

Dear UIC Staff,

A C-108 application was prepared in 2025 by ALL Consulting on behalf of Riley Permian Operating Company, LLC ("Riley") for its proposed The Man In Me 7 State SWD No. 1, as described above. The C-108 application was supposed to have been filed with the OCD on or about September 25, 2025 but for unknown reasons, the application does not appear in a search of pending C-108 applications in OCD's Online Permitting System.

Riley has provided me a copy of the application for examination. I have found that:

- a. The application appears to be complete and contains all the necessary information required for approval;
- b. The application identified 13 offset operators/interest owners within the ½ mile notice area. Also identified as parties requiring notice of the application are the United States Bureau of Land Management and the Commissioner of Public Lands for the State of New Mexico. Proof of notice to these parties dated 9/11/2025 is contained in the application;
- c. A updated search has identified six additional operators/interest owners that need to be provided a copy of the application;
- d. The application identified 21 wells within the ½ mile Area of Review. Only 1 well penetrated the proposed Wolfcamp & Cisco-Canyon injection interval. This well is currently TA'd as a Wolfcamp SWD well, and a notice of intent to plug and abandon the well has been filed with the OCD; and
- e. There is no evidence in the application that publication notice was run in the Artesia Daily Press.

Consequently, it is Riley's intent to re-file this C-108 application with the OCD with the following supplemental updates:

A copy of the C-108 application has been provided to the following additional parties entitled to notice:

Cameron Oil & Gas, Inc.
Walter Solt, LLC
LLJ Ventures, dba Marker Oil & Gas
William J. Sweatt Trust B

C-108 Application
Riley Permian Operating Company, LLC
The Man In Me 7 State SWD No. 1
Section 7-18S-28E

Ray Westall Operating, Inc.
K P Kauffman Company, Inc.

Proof of notice to the additional parties listed above is attached. Also, publication notice was run in the Artesia Daily Press on September 9, 2026. Affidavit of Publication is also attached.

Riley respectfully requests OCD review and approve the C-108 application for The Man in Me 7 State SWD No. 1.

If you should need anything further to process the application, please contact myself at (505) 690-9453 or Mr. Spence Laird, Director EHSR & Government Affairs, Riley Permian Operating Company, LLC at (405) 543-1411.

Respectfully,



David Catanach
DRC Regulatory Consulting, LLC
12020 Dusty Rose Rd. NE
Albuquerque, New Mexico 87122

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
		☐ As Drilled	
Property Name and Well Number THE MAN IN ME 7 STATE SWD 1			

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code	Pool Name
Property Code	Property Name THE MAN IN ME 7 STATE SWD	Well Number 1
OGRID No. 372290	Operator Name RILEY PERMIAN OPERATING COMPANY LLC	Ground Level Elevation 3623'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL or Lot No. A	Section 7	Township 18 S	Range 28 E	Lot	Feet from the N/S 186 FNL	Feet from the E/W 783 FEL	Latitude N 32.768493°	Longitude W 104.208765°	County EDDY
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Bottom Hole Location If Different From Surface

UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
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Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidated Code
Order Numbers			Well Setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
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First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
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Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
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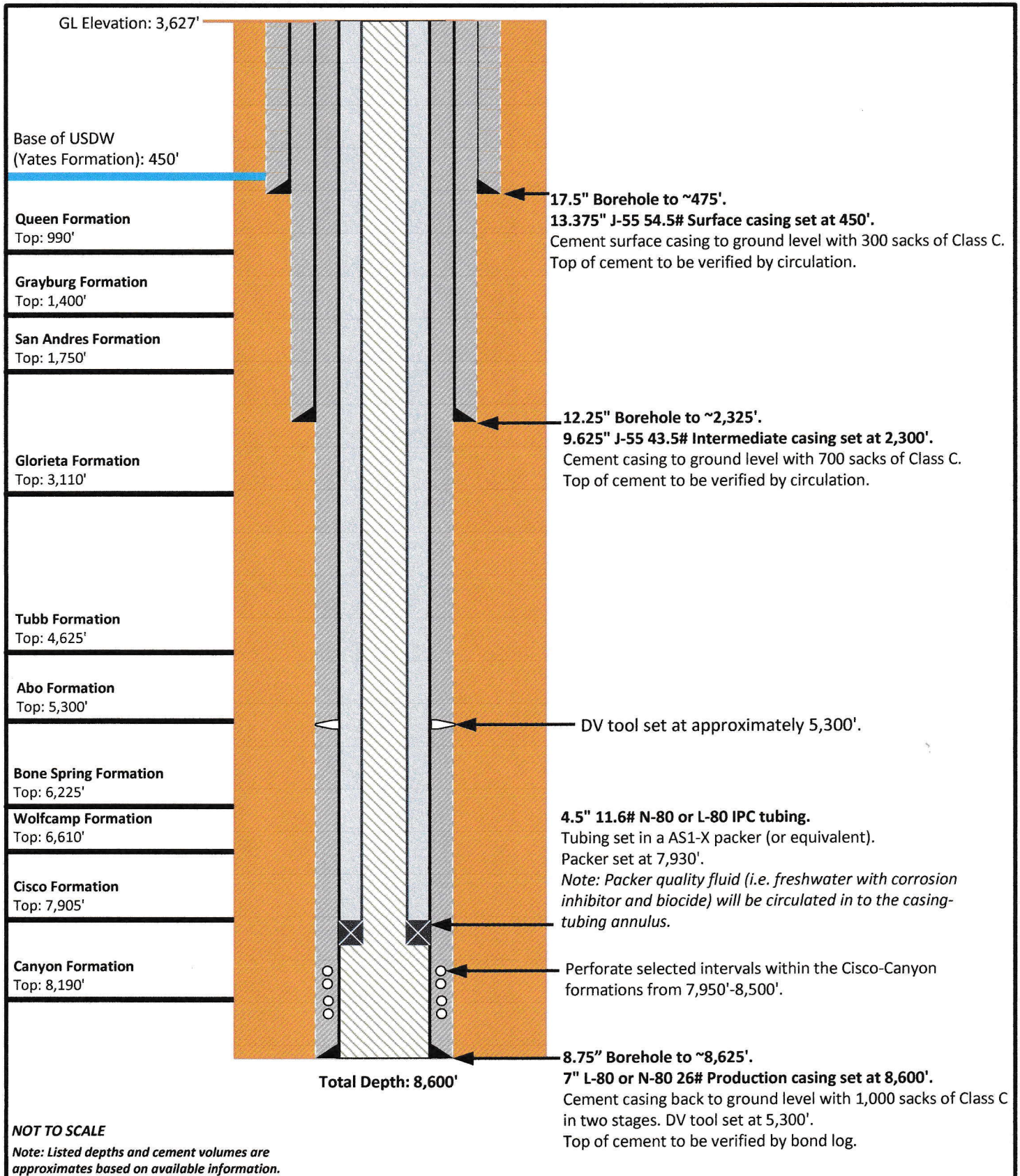
Unitized Area or Area of Uniform Interest	Spacing Unity Type ☐ Horizontal ☐ Vertical	Ground Floor Elevation 3648'
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OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and 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> <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>	SURVEYORS CERTIFICATION  Signature and Seal of Professional Surveyor _____ Date _____ <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> MITCHELL L. MCDONALD, N.M. P.L.S. Certificate Number 29821 Date of Survey APRIL 3, 2025
Signature _____ Date _____	
Print Name _____	
E-mail 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.

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled
Property Name and Well Number THE MAN IN ME 7 STATE SWD 1		
SURFACE LOCATION NEW MEXICO EAST NAD 1983 X=579627' Y=643332' LAT=N32.768493° LONG=W104.208765° NAD 1927 X=538447' Y=643270' LAT=N32.768378° LONG=W104.208253° 186' FNL 783' FEL		

Note: Bearings, coordinates, and distances (grid) shown hereon are based on the New Mexico State Plane Coordinate System, East Zone, NAD 83-2011 (EPOCH 2010) framework, as derived by OPUS Solution. The elevations shown hereon are based on NAVD 88.



Prepared by:
ALLCONSULTING
Prepared for:
RILEY PERMIAN

Drawn by: Joshua Ticknor

Project Manager: Reed Davis

Date: 09/25/2025

The Man in Me 7 State SWD #1
Proposed Wellbore Diagram
Operated by Riley Permian Operating, LLC
S7, T18S, R28E
Eddy County, New Mexico



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ASI-X PACKER

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

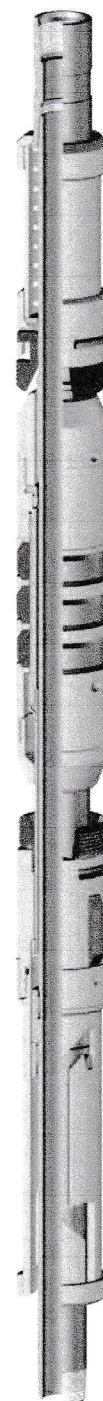
A large internal by-pass reduces swabbing when running and retrieving. The by-pass closes when the packer is set and opens prior to releasing the upper slips when retrieving to allow pressure equalization. The J-slot design allows easy setting and releasing; 1/4 turn right-hand set, 1/4 turn right-hand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

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

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

Special Features

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



Product Specifications

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

¹Maximum OD is across retracted drag blocks.

²Drilled for wireline.

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

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

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



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ASI-X Packer Product Specifications (continued)

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

¹Maximum OD is across retracted drag blocks.

²Drilled for wireline.

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

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

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

Mechanical Set Packers



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ASI-X Packer Product Specifications (continued)

Mechanical Set Packers

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

¹Maximum OD is across retracted drag blocks.

²Drilled for wireline.

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

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

△Designed for differential pressures up to 8,000 PSI.

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

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

September 14, 2026

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: **See Attached Notice List**

Re: Riley Permian Operating Company, LLC
Form C-108 (Application for Authorization to Inject)
The Man In Me 7 State SWD Well No. 1
API No. (N/A)
186' FNL & 783' FEL, Unit A, Section 7, T-18S, R-28E, NMPM,
Eddy County, New Mexico

Ladies & Gentlemen:

Attached please find a copy of Form C-108 for the Riley Permian Operating Company, LLC's ("Riley") The Man In Me 7 State SWD No. 1. This application was originally completed in September 2025 but has not been submitted to the Oil Conservation Division ("OCD") until this time. Notice of the application was provided to certain offset operator/interest owners and surface owners in September 2025. However, an updated list of parties entitled to notice has been prepared in preparation of the submittal of the application to OCD. Your company has been identified as a supplemental party entitled to notice of the application.

Riley has proposed drilling and completing this well as a produced water disposal well, injection to occur into the Wolfcamp and Upper-Penn (Cisco-Canyon) intervals from approximately 7,100'-8,500'.

Objections to this application must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact me at (505) 690-9453 or Mr. Spence Laird, Director, EHSR & Government Affairs, Riley Permian Operating Company, LLC. at (405) 543-1411.

Sincerely,



David Catanach-Agent for Riley Permian Operating Company, LLC
29 E. Reno Avenue, Suite 500
Oklahoma City, OK 73104

Enclosure

C-108 Application
Riley Permian Operating Company, LLC
The Man In Me 7 State SWD No. 1
Section 7-T-18S-R-28E, NMPM
Subsequent Notification List

Unit F, Section 7-18S-28E

K P Kauffman Company, Inc.
1700 Lincoln Street
Suite 4550
Denver, CO 80203

Unit J, Section 7-18S-28E

Ray Westall Operating, Inc.
P.O. Box 4
Loco Hills, NM 88255

Unit C, Section 7-18S-28E

LLJ Ventures, LLC dba Marker Oil & Gas
P.O. Box 3188
Roswell, NM 88202

Unit A, Section 7-18S-28E

William J Sweatt Trust B
P.O. BOX 205
Loco Hills, NM 88255

Unit L, Section 5-18S-28E

Walter Solt, LLC
P.O. Box 70
Loco Hills, NM 88255

Units J, K, N & N, Section 5-18S-28E

Cameron Oil & Gas, Inc.
2803 W. Marland
Hobbs, NM 88240

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Loco Hills, NM 88255

Certified Mail Fee	\$5.55	0109 97
Extra Services & Fees (check box, add fees as appropriate)	\$4.62	
☐ Return Receipt (hardcopy)	\$0.00	
☐ Return Receipt (electronic)	\$0.00	
☐ Certified Mail Restricted Delivery	\$0.00	
☐ Adult Signature Required	\$0.00	
☐ Adult Signature Restricted Delivery	\$0.00	
Postage	\$4.62	
Total Postage and Fees	\$14.82	

Sent To: **Walter Solt, LLC**
P.O. Box 70
Loco Hills, NM 88255

City, State, ZIP+4®

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Certified Mail Restricted Delivery	\$0.00	
☐ Adult Signature Required	\$0.00	
☐ Adult Signature Restricted Delivery	\$0.00	
Postage	\$4.62	
Total Postage and Fees	\$14.82	

Sent To: **Cameron Oil & Gas, Inc.**
2803 W. Marland
Hobbs, NM 88240

City, State, ZIP+4®

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Extra Services & Fees (check box, add fees as appropriate)	\$4.62	
☐ Return Receipt (hardcopy)	\$0.00	
☐ Return Receipt (electronic)	\$0.00	
☐ Certified Mail Restricted Delivery	\$0.00	
☐ Adult Signature Required	\$0.00	
☐ Adult Signature Restricted Delivery	\$0.00	
Postage	\$4.62	
Total Postage and Fees	\$14.82	

Sent To: **Ray Westall Operating, Inc.**
P.O. Box 4
Loco Hills, NM 88255

City, State, ZIP+4®

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Extra Services & Fees (check box, add fees as appropriate)	\$4.62	
☐ Return Receipt (hardcopy)	\$0.00	
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☐ Certified Mail Restricted Delivery	\$0.00	
☐ Adult Signature Required	\$0.00	
☐ Adult Signature Restricted Delivery	\$0.00	
Postage	\$4.62	
Total Postage and Fees	\$14.82	

Sent To: **LLJ Ventures, LLC dba Marker**
Oil & Gas
P.O. Box 3188
Roswell, NM 88202

City, State, ZIP+4®

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Loco Hills, NM 88255

Certified Mail Fee	\$5.55	0109 97
Extra Services & Fees (check box, add fees as appropriate)	\$4.62	
☐ Return Receipt (hardcopy)	\$0.00	
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Postage	\$4.62	
Total Postage and Fees	\$14.82	

Sent To: **William J Sweatt Trust B**
P.O. BOX 205
Loco Hills, NM 88255

City, State, ZIP+4®

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Denver, CO 80203

Certified Mail Fee	\$5.55	0109 97
Extra Services & Fees (check box, add fees as appropriate)	\$4.62	
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☐ Adult Signature Required	\$0.00	
☐ Adult Signature Restricted Delivery	\$0.00	
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Total Postage and Fees	\$14.82	

Sent To: **K P Kauffman Company, Inc.**
1700 Lincoln Street
Suite 4550
Denver, CO 80203

City, State, ZIP+4®

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

Affidavit of PublicationNo. 127760

State of New Mexico

County of Eddy:

Adrian Heddenbeing duly sworn, says that he is the **Publisher**

of the Artesia Daily Press, a weekly newspaper of General

circulation, published in English at Artesia,

said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said

Artesia Daily Press, a weekly newspaper duly qualified

for that purpose within the meaning of Chapter 167 of

the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication September 9, 2026

Second Publication _____

Third Publication _____

Fourth Publication _____

Fifth Publication _____

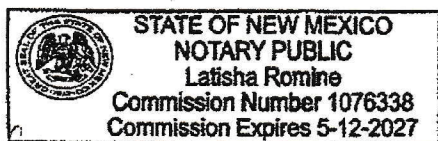
Sixth Publication _____

Seventh Publication _____

Eighth Publication _____

Subscribed and sworn before me this

9th day of September 2026



Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:**LEGAL NOTICE**

Riley Permian Operating Company, LLC 29 E. Reno Avenue, Suite 500, Oklahoma City, OK 73104, has or will file a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division (Division) seeking administrative approval to utilize its proposed The Man In Me 7 State SWD No. 1 (API No. N/A) to be drilled 186 feet from the North line and 783 feet from the East line (Unit A) of Section 7, Township 18 South, Range 28 East, NMPM, Eddy County, New Mexico and complete the well as a produced water disposal well in the Wolfcamp and Cisco-Canyon interval. Injection is to occur through the perforated interval from approximately 7,100 feet to 8,500 feet.

Produced water from the Glorieta, Yeso, Bone Spring, Abo and Delaware formations originating from wells in this area will be injected into the Man In Me 7 State SWD No. 1 at average and maximum rates of 5,000 and 10,000 barrels of water per day, respectively. The initial surface injection pressure for the well is anticipated to be at or below 1,420 psi., which is in compliance with Division regulations. The maximum surface injection pressure will be determined by step rate injection test.

Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication.

Additional information can be obtained by contacting Mr. David Catanach-Agent for Riley Permian Operating Company, LLC or Mr. Spence Laird, Director EHSR & Government Affairs, Riley Permian Operating Company, LLC at (405) 543-1411.
127760-Published in Artesia Daily Press Sept. 9, 2026.

Attachment 9

Public Notice Affidavit and Notice of Application Confirmation

THE MAN IN ME 7 STATE SWD #1 - NOTICE OF APPLICATION RECIPIENTS							
LEASE ID	ENTITY	ADDRESS	CITY	STATE	ZIP	Certified Mailing ID (from initial notification)	INTEREST RELATIONSHIP
N/A	NEW MEXICO BUREAU OF LAND MANAGEMENT	620 E GREENE ST.	CARLSBAD	NM	88220	9414 8111 0549 5889 6439 32	MINERAL OWNER
N/A	NEW MEXICO OIL CONSERVATION DISTRICT 1	1625 N. FRENCH DRIVE	HOBBS	NM	88240	9414 8111 0549 5889 6444 03	NMOCD DISTRICT OFFICE
N/A	COMMISSION OF PUBLIC LANDS - STATE LAND OFFICE	310 OLD SANTE FE TRAIL	SANTE FE	NM	87501	9414 8111 0549 5889 6792 38	SURFACE AND MINERAL OWNER
NMNM 070945X	APACHE CORPORATION	2000 W SAM HOUSTON PKWY S STE 200 ONE BRIARLAKE PLAZA	HOUSTON	TX	77042	9414 8111 0549 5889 6342 99	BLM UNIT OPERATOR
B038230009	CHASE OIL CORPORATION	PO BOX 1767	ARTESIA	NM	88211-1767	9414 8111 0549 5889 6353 19	NMSLO LESSEE
E027150006	CHISOS, LTD.	1331 LAMAR STREET	HOUSTON	TX	77010	9414 8111 0549 5889 6371 22	NMSLO LESSEE
B060430021	CONCHO OIL & GAS LLC/COG OPERATING LLC	ONE CONCHO CENTER	MIDLAND	TX	79701	9414 8111 0549 5889 6313 97	NMSLO LESSEE
OG16440001	EOG RESOURCES, INC.	5509 CHAMPIONS DRIVE	MIDLAND	TX	79706	9414 8111 0549 5889 6145 98	NMSLO LESSEE
B115390000	EXXON MOBIL CORPORATION	22777 SPRINGWOODS VILLAGE PARK	SPRING	TX	77389	9414 8111 0549 5889 6122 28	NMSLO LESSEE
OG01030001	KERR-MCGEE O/G ONSHORE, LP	PO BOX 1330	HOUSTON	TX	77251	9414 8111 0549 5889 6109 41	NMSLO LESSEE
X007030027	MARATHON OIL CO	990 TOWN & COUNTRY BLVD.	HOUSTON	TX	77024	9414 8111 0549 5889 6109 41	NMSLO LESSEE
B115940014	MAVERICK PERMIAN LLC	1111 BAGBY STREET	HOUSTON	TX	77002	9414 8111 0549 5889 6167 83	NMSLO LESSEE
E071790006							
OG01030002	MEWBOURNE OIL COMPANY	PO BOX 7698	TYLER	TX	75711	9414 8111 0549 5889 6111 15	NMSLO LESSEE
V003280001							
OG07800014	ROVER OPERATING, LLC	318 WEST ADAMS STREET	CHICAGO	IL	60606	9414 8111 0549 5889 6461 24	NMSLO LESSEE
X006470417	WPX ENERGY PERMIAN, LLC.	333 WEST SHERIDAN AVE.	OKLAHOMA CITY	OK	73102	9414 8111 0549 5889 6731 75	NMSLO LESSEE
X006470412	ZPZ DELAWARE I LLC	2000 POST OAK BLVD	HOUSTON	TX	77056	9414 8111 0549 5889 6741 65	NMSLO LESSEE
Note: The affected parties above received notification of this C-108 application. BLM Unit Operators and Lessee information was retrieved from BLM MLRS (https://mlrs.blm.gov/s/). NMSLO Lessee information retrieved from NMOCD Operator Search (https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/Operators/Search/OperatorSearch.aspx).							

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SA OK 74119

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HOUSTON TX 77042-3643

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SA OK 74119

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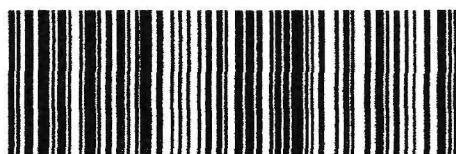
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ARTESIA NM 88211-1767

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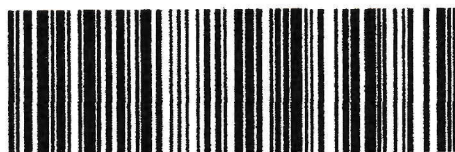
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CHISOS LTD
1331 LAMAR ST
HOUSTON TX 77040 2016

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TULSA OK 74119

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CONCHO OIL & GAS LLC/COG OPERATING LLC
ONE CONCHI CENTER
MIDLAND TX 79701

ALL CONSULTING
1718 S. CHEYENNE AVE
TULSA OK 74119

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ZPZ DELAWARE I LLC
2000 POST OAK BLVD STE 100
HOUSTON TX 77056-4497

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1718 S. CHEYENNE AVE
TULSA OK 74119

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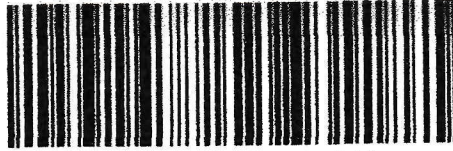


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EOG RESOURCES
5509 CHAMPIONS DR
MIDLAND TX 79706-2843

1718 S. CHEYENNE AVE
TULSA OK 74119



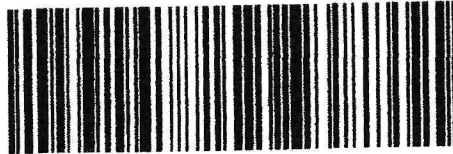
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EXXON MOBIL CORP
22777 SPRINGWOODS VILLAGE PKWY
SPRING TX 77389-1425

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1718 S. CHEYENNE AVE
TULSA OK 74119

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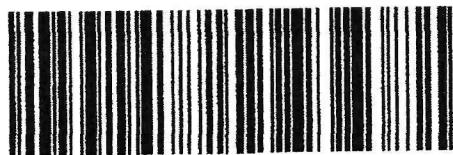
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KERR-MCGEE O/G ONSHORE LP
PO BOX 1330
HOUSTON TX 77251-1330

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TULSA OK 74119

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MARATHON OIL CO
990 TOWN AND COUNTRY BLVD
HOUSTON TX 77024-2217

ULSA OK 74119



9414 8111 0549 5889 6167 83



MAVERICK PERMIAN LLC
1111 BAGBY ST RM 2764
HOUSTON TX 77002-2548

LL CONSULTING
718 S. CHEYENNE AVE
ULSA OK 74119

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9414 8111 0549 5889 6111 15

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MEWBOURNE OIL CO
PO BOX 7698
TYLER TX 75711-7698

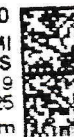
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TULSA OK 74119

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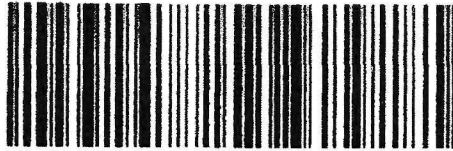
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NM BUREAU OF LAND MANAGEMENT
620 E GREENE ST
CARLSBAD NM 88220-6292

1625 N FRENCH DR
74119



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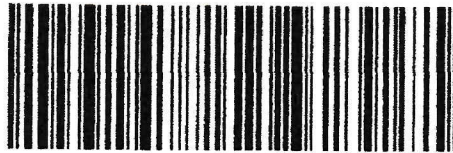
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1625 N FRENCH DR
HOBBS NM 88240-9273

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3 CHEYENNE AVE
OK 74119

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ROVER OPERATING LLC
318 W ADAMS ST STE 100
CHICAGO IL 60606-5195

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09/11/2025
Stamps.com



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OK 74119

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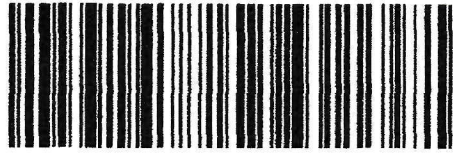
COMMISSION OF PUBLIC LANDS
310 OLD SANTA FE TRL
SANTA FE NM 87501-2708

\$8.860
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FIRST-CLASS
FROM 74119
09/11/2025
Stamps.com



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HEYENNE AVE
74119

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FROM 74119
09/11/2025
Stamps.com



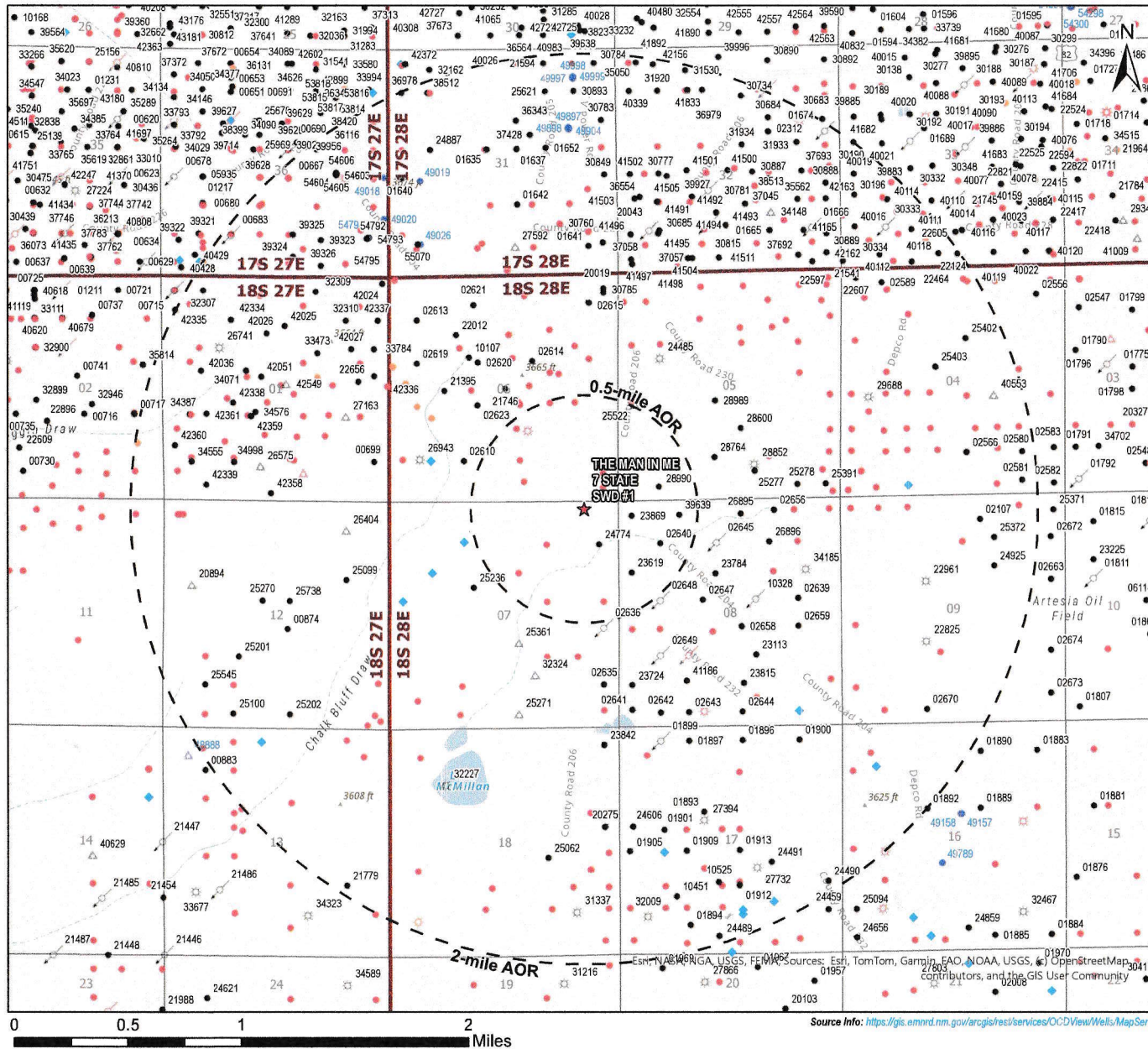
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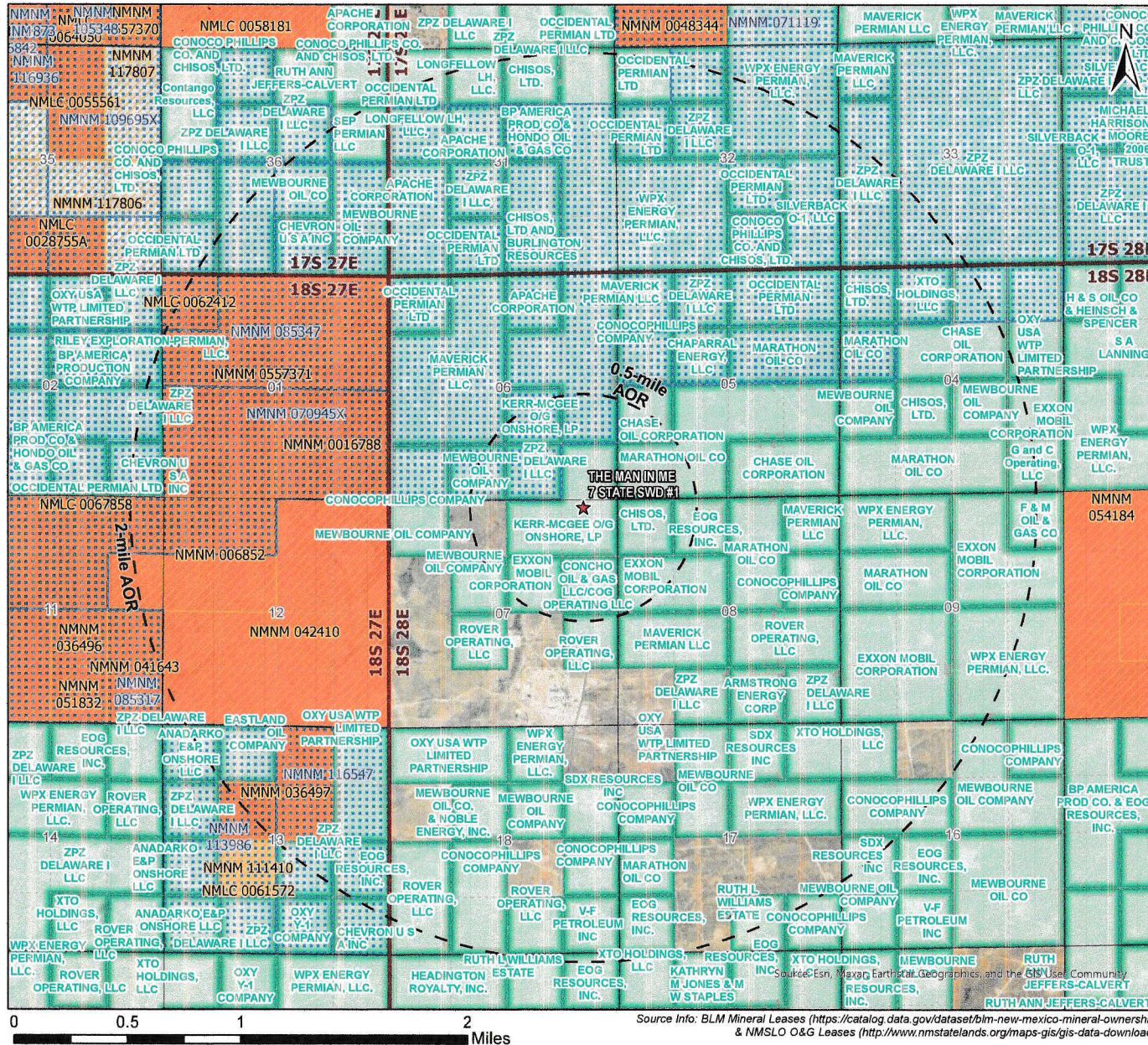
WPX ENERGY PERMIAN LLC
333 W SHERIDAN AVE
OKLAHOMA CITY OK 73102-5010

Attachment 2

Area of Review Information:

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





Legend

- ★ Proposed SWD
- NMSLO Mineral Leases
- BLM Communitization Units

BLM O&G Leases

Case Disposition

- Authorized
- Closed

Production Status

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

1/2-mile Affected Parties AOR

NMSLO Lessees:

- CHASE OIL CORPORATION
- CHISOS, LTD
- CONCHO OIL & GAS LLC
- COG OPERATING LLC
- EOG RESOURCES, INC
- EXXON MOBIL CORPORATION
- KERR-MCGEE O/G ONSHORE, LP
- MARATHON OIL CO
- MAVERICK PERMIAN LLC
- MEWBOURNE OIL COMPANY
- ROVER OPERATING, LLC
- WPX ENERGY PERMIAN, LLC
- ZPZ DELAWARE I LLC

NMSLO Unit Agreements:

- EMPIRE ABO UNIT
- WEST ARTESIA GRAYBURG UNIT

BLM Unit Operators:

- APACHE CORPORATION

Mineral Lease AOR

THE MAN IN ME 7 STATE SWD #1 EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

May 01, 2025

Mapped by:
Ben Bockelmann

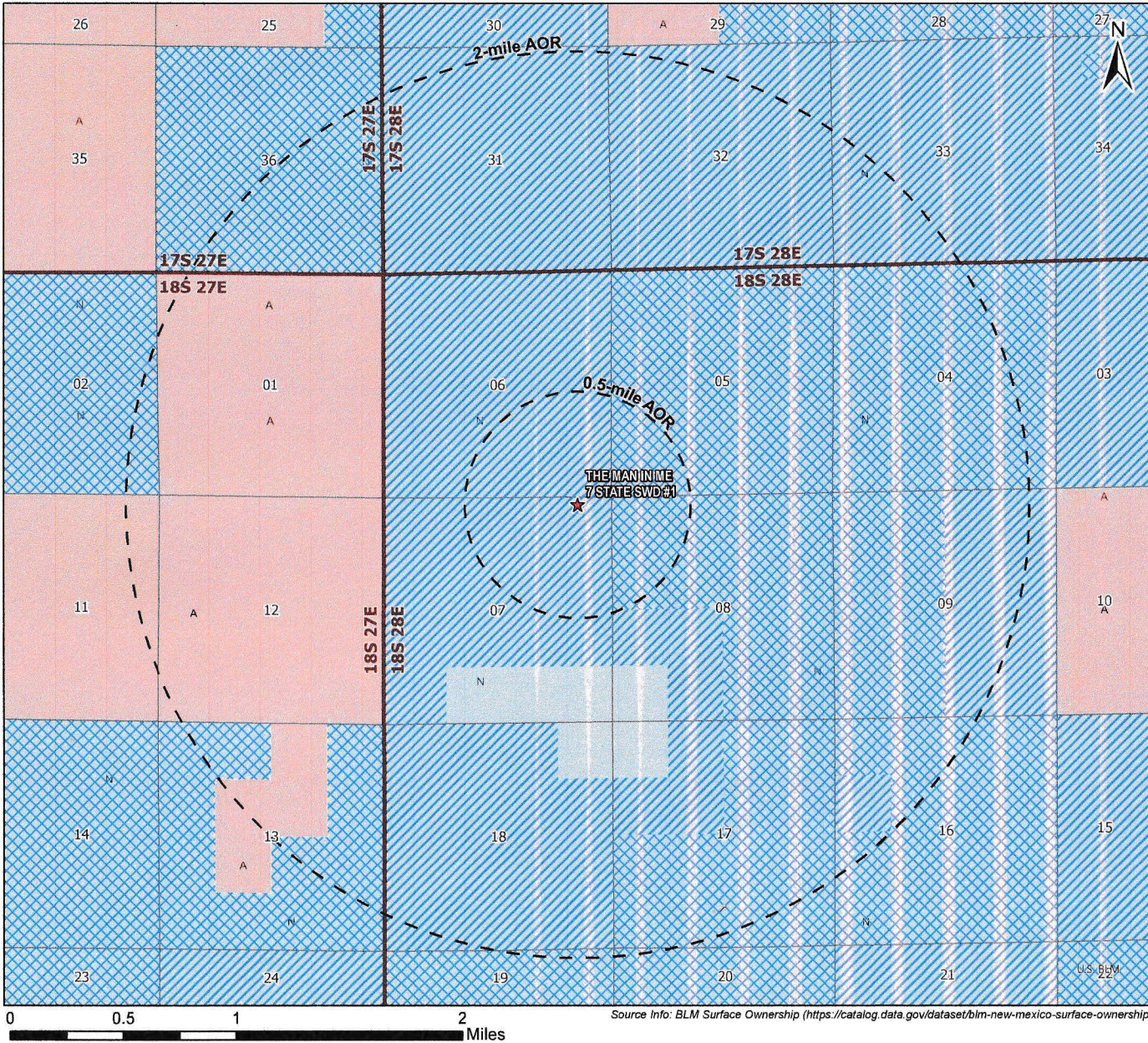
Prepared for:



Prepared by:



Source Info: BLM Mineral Leases (<https://catalog.data.gov/dataset/blm-new-mexico-mineral-ownership>)
& NMSLO O&G Leases (<http://www.nmstatelands.org/maps-gis/gis-data-download/>)



Legend

★ Proposed SWD

NMSLO Ownership

Subsurface
Surface and Subsurface

Mineral Ownership

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

2-mile Mineral Ownership AOR

THE MAN IN ME 7 STATE SWD #1
EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

April 30, 2025

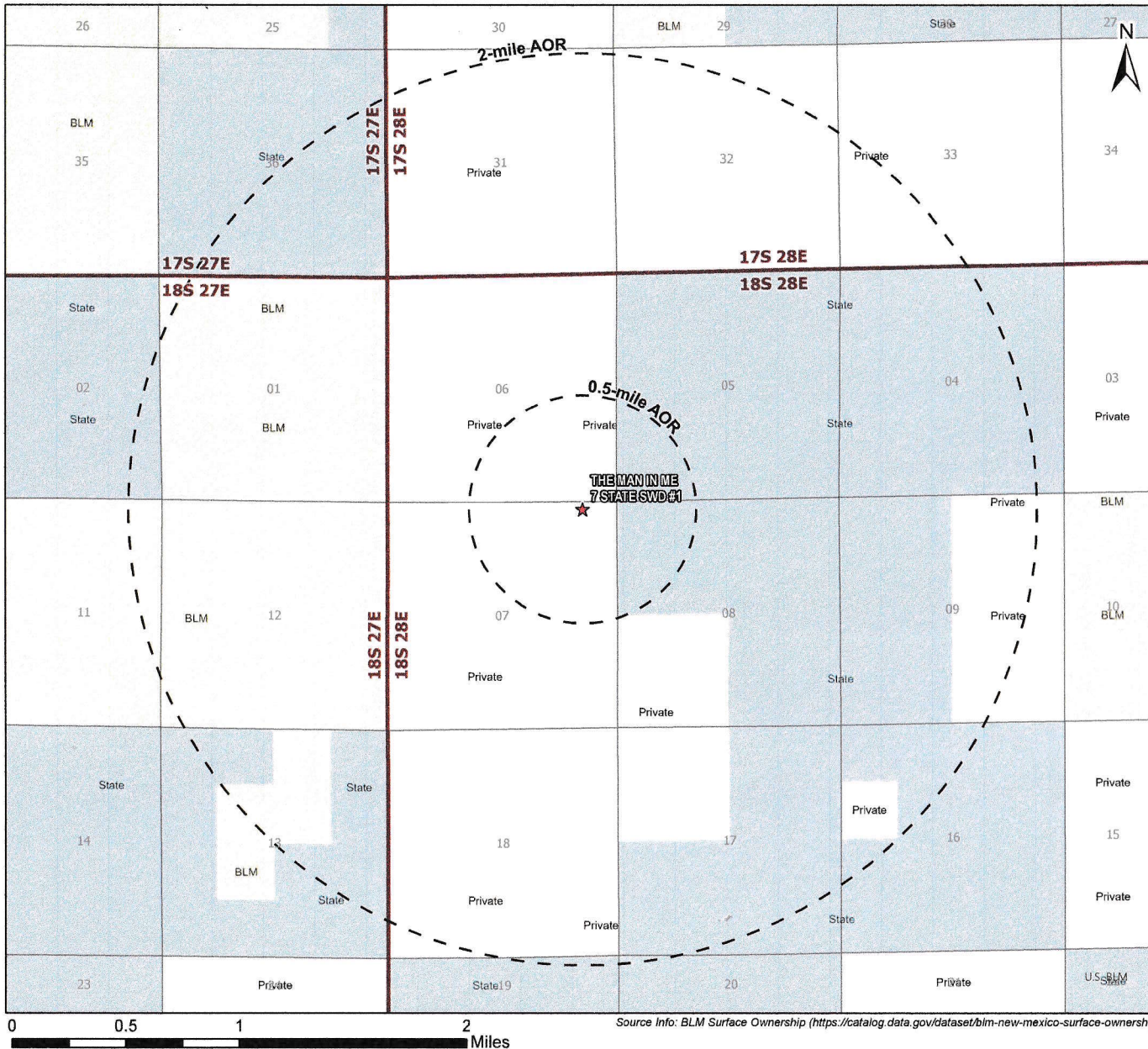
Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:





Legend

★ Proposed SWD

Land Ownership

BLM

P

S

2-mile Surface Ownership AOR

THE MAN IN ME 7 STATE SWD #1 EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

April 30, 2025

Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:



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

AOR Tabulation for The Man in Me 7 State SWD #1 (Wolfcamp and Cisco Formations - Injection Interval: 7,100' - 8,500'), Eddy County

Well Name	API#	Well Type	Operator	Spud Date	Location (Sec., Tn., Rng.)	Total Vertical Depth (feet)	Penetrate Inj. Zone?
Sun State #001	30-015-24774	Oil	William J. Sweatt Trust B	2/29/1984	07-18S-28E	2,502'	No
West Artesia Grayburg Unit #027	30-015-23869	Oil	Rover Operating LLC	7/22/1981	08-18S-28E	2,520'	No
West Artesia Grayburg Unit #021	30-015-23619	Oil	Rover Operating LLC	2/12/1981	08-18S-28E	2,520'	No
West Artesia Grayburg Unit #002	30-015-02640	Oil	Rover Operating LLC	4/17/1958	08-18S-28E	2,385'	No
West Artesia Grayburg Unit #028	30-015-39639	Oil	Rover Operating LLC	3/3/2013	08-18S-28E	2,370'	No
S.A. Solt #004	30-015-28990	Oil	Cameron Oil & Gas Inc.	6/13/1996	05-18S-28E	2,850'	No
Walter Solt State #001	30-015-25522	SWD	Walter Solt, LLC	1/8/1986	05-18S-28E	8,500'	Yes
State AG #001	30-015-10244	Oil	Mack Energy Corporation	8/8/1963	05-18S-28E	6,365'	No
Kimberly State #1	30-015-25503	Oil	Dickson Petroleum Inc.	12/16/1985	06-18S-28E	1,746'	No
State #1	30-015-2612	Oil	D&H Oil Company	12/10/1951	06-18S-28E	2,246'	No
West Artesia Grayburg Unit #003	30-015-02630	Oil	Rover Operating LLC	12/17/1957	07-18S-28E	2,420'	No
Humble #1	30-015-02629	Oil	J.B. Bedingfield	3/19/1958	07-18S-28E	2,377'	No
Tejon State #001	30-015-29231	Oil	Morexco Inc.	10/17/1996	07-18S-28E	1,765'	No
Sun State #2	30-015-24879	Oil	Santa Rita Exploration Corporation	6/4/1984	07-18S-28E	1,724'	No
Empire Abo Unit #1	30-015-06250	Oil	Arco Oil & Gas Company	No Records	06-18S-28E	Unknown	Unknown
State of New Mexico "60" #1	30-015-02624	Oil	Pan American Petroleum Corporation	4/14/1961	06-18S-28E	6,428'	No
Empire Abo Unit #231B	30-015-22491	Oil	BP America Production Company	7/18/1978	06-18S-28E	6,350'	No
Capital State #1	30-015-02618	Gas	Miller Bros. Oil Company	6/26/1954	06-18S-28E	2,396'	No
Empire Abo Unit #232A	30-015-22528	Oil	BP America Production Company	6/26/1978	06-18S-28E	6,350'	No
Empire Abo Unit #024K	30-015-02617	Oil	BP America Production Company	8/11/1960	06-18S-28E	6,346'	No

Notes:

Casing / Plugging Information for Wells Penetrating The Man in Me 7 State SWD #1 Injection Zone

Well Name	Type	Set Depth	Casing Size	TOC	TOC Method Determined	Sks of Cement	Hole Size
Walter Solt State #001	Surface	354'	13-3/8"	Surface	Circulation	350	17-1/2"
	Intermediate	1,745'	8-5/8"	Surface	Circulation	650	12-1/4"
	Production	8,466'	5-1/2"	7,961'	CBL	135	7-7/8"
	Original perforations in the Cisco from 8,214'-8,236' and CIBP set at 8,200' with 35' of cement on top. Shot off 5-1/2" at 7,846' pull out and rerun back into the well and set at 7,832'. Cemented with 100 sacks and then squeezed cement at 7,390' with 275 sacks Class H cement. SWD in Wolfcamp perforations from 7,518'-7,812'. Top of cement by temperature survey at 6,250'.						

Attachment 3: Source Water Analyses

The Man in Me 7 State SWD #1 - Source Water Analysis (Abo, Avalon, Bone Spring, Delaware, Drinkard, Glorieta, Yeso Group)																		
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)
STIRLING #001	3001521528	32.7651634	-104.3199997	GLORIETA/YESO	214,915.00	91,205.60	2,602.59	13.64	1.71	578.73	818.64	50.03	-	144,232.00	-	470.72	4,385.41	28.43
WASHINGTON 33 STATE #024	3001530334	32.7846756	-104.1882248	GLORIETA/YESO	206,471.00	88,542.10	1,928.93	2.27	0.45	482.80	368.06	40.90	-	137,940.00	-	504.38	4,741.66	-
STATE S 19 #015	3001530917	32.8178444	-104.1109848	YESO	215,197.00	91,651.30	2,632.16	0.80	0.11	492.32	501.42	51.17	-	144,157.00	-	409.32	4,784.50	14.78
STATE S 19 #014	3001530944	32.8192024	-104.1088333	YESO	212,361.00	90,572.30	2,346.56	3.19	0.06	629.31	410.82	36.42	-	142,111.00	-	944.54	4,613.45	91.04
ONYX PWU 29 #007H	3001541380	32.6295242	-104.1062012	BONE SPRING 1ST SAND	-	109,466.00	2,731.00	-	-	609.00	-	-	-	174,338.00	-	549.00	440.00	-
EMERALD PWU 20 #009H	3001542946	32.65103299	-104.1049809	BONE SPRING 3RD SAND	106,365.60	34,602.30	4,236.20	19.10	-	736.00	-	-	-	64,934.70	-	-	702.50	-
CONNIE C STATE #002	3001502301	32.6337662	-104.1241302	DELAWARE	55,498.00	-	-	-	-	-	-	-	-	32,420.00	-	601.00	984.00	-
GREEN B #008	3001503183	32.7991562	-104.0980453	ABO	29,400.00	-	-	-	-	-	-	-	-	13,700.00	-	2,520.00	2,800.00	-
USA MALCO REF D #003	3001500854	32.7638474	-104.2641525	ABO	71,856.00	-	-	-	-	-	-	-	-	42,290.00	-	319.00	2,303.00	-
EMPIRE ABO UNIT #011N	3001500856	32.7647781	-104.265213	ABO	23,470.00	-	-	-	-	-	-	-	-	12,030.00	-	1,132.00	1,877.00	-

Note: The water analysis report provided below shows the produced water stream is less than 0.00% H2S, as requested by NMOCDC.

Attachment 4

Injection Formation Water Analyses

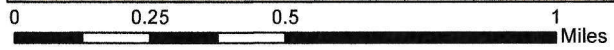
The Man in Me 7 State SWD #1 - Injection Formation Water Analysis (Cisco, Canyon, or "Pennsylvanian" formations)

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)
COMPROMISE SWD #001	3001525665	32.7204971	-104.3120422	PENNSYLVANIAN	67,392.70	24,637.20	2,028.60	0.63	2.10	305.55	143.85	235.20	-	41,650.30	-	969.15	789.60	-
C.R.MARTIN #003	3001500227	32.7378578	-104.358017	PENNSYLVANIAN	50,546.00	-	-	-	-	-	-	-	-	29,610.00	-	660.00	966.00	-
BLEVINS IK COM #001	3001522287	32.7962227	-104.3586426	PENNSYLVANIAN	63,351.80	-	5,400.00	60.00	-	11,783.30	-	-	-	44,910.00	-	390.00	12.50	-
CHAPARRAL ST #002	3001503612	32.6227493	-104.1034851	PENNSYLVANIAN	6,420.00	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAYBURG DEEP UNIT #001	3001504187	32.8364372	-104.0131989	PENNSYLVANIAN	32,640.00	-	-	-	-	-	-	-	-	-	-	-	-	-
SANTA FE LAND SWD #001	3001520501	32.6587677	-104.3975983	CANYON	205,234.00	85,895.70	3,669.45	0.34	0.57	552.75	455.14	57.89	-	137,681.00	-	454.00	4,173.40	-
LAKEWOOD AQE STATE SWD #001	3001522233	32.633419	-104.4233398	CANYON	-	-	960.00	2.50	-	243.50	-	-	-	17,892.00	-	952.00	2,175.00	160.00

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

Attachment 7

Water Well Map and Well Data



SourceInfo: https://gis.ose.state.nm.us/arcgis/rest/services/WatersPod/OSE_PODs/MapServer/0

Legend

- ★ Proposed SWD (1)
- OSE Water PODs
- POD Status
- Active (0)
- Pending (1)
- Changed Location of Well (0)
- Inactive (0)
- Capped (0)
- Plugged (1)
- Unknown (3)

1-mile Water Well AOR

THE MAN IN ME 7 STATE SWD #1 EDDY COUNTY, NEW MEXICO

Proj Mgr:
Reed Davis

April 30, 2025

Mapped by:
Ben Bockelmann

Prepared for:



Prepared by:



Water Well Sampling Rationale					
Riley Permian Operating Company, LLC -The Man In Me 7 State SWD #1					
Water Wells	Owner	Available Contact Information	Use	Sampling Required	Notes
RA-03917	Pan American Petroleum Corp.	Pan American Petroleum Corp. PO Box 68 Hobbs, NM	Unknown	Yes - If well is found to be present. No recent records are available.	The request to sample the well was sent via certified mail. Proof of mailing is attached.
RA-12433-POD1	Centurion Pipeline Lp	Dusty Wilson 6001 Deauville Blvd Midland, TX 79706	Unknown	Yes - If well is found to be present. No recent records are available.	The request to sample the well was sent via certified mail. Proof of mailing is attached.
RA-12433-POD2	Centurion Pipeline Lp	Dusty Wilson 6001 Deauville Blvd Midland, TX 79706	Unknown	Yes - If well is found to be present. No recent records are available.	The request to sample the well was sent via certified mail. Proof of mailing is attached.
Note: If permission to sample any of the above listed water wells is obtained, Riley Permian Operating Company will sample the water wells and provide the analytical results to NMOCD. Please note that this sampling effort will be limited to a maximum of two active fresh water wells.					

Attachment 8

No Hydrologic Connection Statement



RE: Riley Permian Operating LLC – The Man in Me 7 SWD #1 application, Eddy County, New Mexico – No Hydrologic Connection Statement

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 Lower Wolfcamp-Cisco-Canyon formations and the deepest underground source of drinking water (USDW).

ALL performed an assessment and analysis of the subsurface geophysical log data along with published documents on the groundwater in this vicinity of Eddy County, New Mexico. The surficial geology is Quaternary alluvial deposits consisting predominantly of sand and caliche and the Rustler Formation or the Chalk Bluff Formation of the Whitehorse Group. In this area the depths to potable water for stock and domestic supplies are less than 250 feet below the surface. The USDW is the Yates Formation and the base of the USDW ranges from 425 to 450 feet below the surface.

Based on ALL's assessment and analysis there is containment through multiple confining zones above the Lower Wolfcamp-Cisco-Canyon proposed injection zones and the USDW and over 6,650 feet of vertical separation between the base of the USDW and the top of the injection interval. Additionally, there is no evidence of faults that would allow for communication between the USDW and Lower Wolfcamp-Cisco-Canyon injection zones.

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

June 20, 2025

Tom Tomastik

Date

Chief Geologist and Regulatory Specialist

ALL Consulting LLC

Attachment 6

Induced Seismicity Assessment Letter



September 12, 2025

PN 1912.SWD.02

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

Subject: **Riley Permian Operating Company, LLC**
Man in Me 7 SWD #1 - Seismic Potential Letter

Dear Mr. Goetze,

At the request of Riley Permian Operating Company, LLC (Riley), ALL Consulting, LLC (ALL) has assessed the potential injection-induced seismicity risks in the vicinity of Spur's Man in Me 7 SWD #1, a saltwater disposal (SWD) facility in Eddy County, New Mexico, and summarized the findings in this letter. This assessment used publicly available data to identify the proximity and characteristics of seismic events and known faults to evaluate the potential for the operation of the Man in Me 7 SWD #1 to contribute to seismic activity in the area.

Geologic Evaluation

The Man in Me 7 SWD #1 is requesting a permit to inject into the Cisco and Canyon formations (Cisco-Canyon) at a depth of 7,100' – 8,500' feet below ground surface (bgs). The Pennsylvanian Cisco-Canyon consists of interbedded carbonate rocks including dolomites and limestones. The proposed injection interval is overlain approximately 25 feet of tight shales within the Wolfcamp Formation which will act as the upper confining layer (see **Reservoir Characterization Section of C-108**). Additionally, the proposed injection interval is underlain by approximately 22 feet of various low porosity and permeability zones within the lower Cisco-Canyon will prevent downward migration. A stratigraphic chart depicting the geologic setting is included as **Figure 1**.¹

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

Riley Permian Operating Company, LLC
Man in Me 7 SWD #1 Seismic Potential Letter
September 12, 2025

Seismic Events and Fault Data

A review of United States Geological Survey (USGS) and New Mexico Tech Seismological Observatory (NMTSO) earthquake catalogues determined that the closest recorded seismic event was a M1.75 that occurred on May 26th, 2021, and was located approximately 0.65 miles southwest of the Man in Me 7 SWD #1 (see Attachment 1). **Per the USGS earthquake catalog, no seismic events M2.5 or greater have been recorded within 10 miles of the Man in Me 7 SWD #1.**

Fault data from United States Geological Survey (USGS) and the Texas Bureau of Economic Geology (BEG)² indicates that the closest known fault is located approximately 6.12 miles south of the Man in Me 7 SWD #1 (see Attachment 1). This identified fault is within the Precambrian basement, which is approximately 4,500' feet below the proposed injection interval.³ **One Precambrian basement fault was identified within 10 miles of the Man in Me 7 SWD #1.** A map of the seismic events and faults within 10 miles of the Man in Me 7 SWD #1 is included as Attachment 1.

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

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

Seismic Potential Evaluation

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

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

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

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

Riley Permian Operating Company, LLC
Man in Me 7 SWD #1 Seismic Potential Letter
September 12, 2025

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

Per the NMTSO seismic catalog, the nearest reported event was a M1.75 which occurred on May 25, 2021, at 5.00 km depth. The default reported depth of 5.00 km indicates the seismic network in the area is not dense enough to accurately report hypocenter depths. Based on the proximity to a seismic response area, it is likely that the nearest events occurred in the Precambrian basement far below the proposed injection interval.

Depth to Precambrian Basement

Geophysical data from nearby well records, aeromagnetic surveys, and gravity surveys indicates the top of the Precambrian Basement to be approximately 13,000 feet bgs at the Man in Me 7 SWD #1, or approximately 4,500 feet below the proposed injection interval.³ **There are insufficient Precambrian basement penetrations and/or public well data regarding Precambrian basement depth to generate an accurate structural contour map of the Precambrian basement in the vicinity of the Man in Me 7 SWD #1.**

Formation Parting Pressure

Class II SWDs in New Mexico are administratively permitted with a maximum pressure gradient of 0.2 psi/ft. Review of New Mexico Oil Conservation Division (NMOCD) Order IPI-547 from a nearby Canyon SWD, located approximately 13.5 miles southwest of the Man in Me 7 SWD #1, determined the fracture gradient of the Canyon Formation in the region to be approximately 0.256 psi/ft based on approved step-rate testing. Typical SWD permitting standards in New Mexico would indicate that formation parting pressure will not be exceeded by the Man in Me 7 SWD #1.

Conclusion

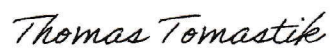
As experts on the issue of induced seismicity, seismic monitoring, and mitigation, it is our expert opinion that the potential for the Man in Me 7 SWD #1 to cause injection-induced seismicity is expected to be minimal, at best. This conclusion assumes the Man in Me 7 SWD #1 will be operated under formation parting pressure and is based on (1) the presence of numerous confining layers above and below the proposed injection interval, (2) the significant vertical and lateral distance between the proposed injection interval and Precambrian basement rock in which the nearest fault has been identified, and (3) the lack of historic shallow seismicity in proximity to the Man in Me 7 SWD #1.

Sincerely,
ALL Consulting

Riley Permian Operating Company, LLC
Man in Me 7 SWD #1 Seismic Potential Letter
September 12, 2025



Reed Davis
Geophysicist



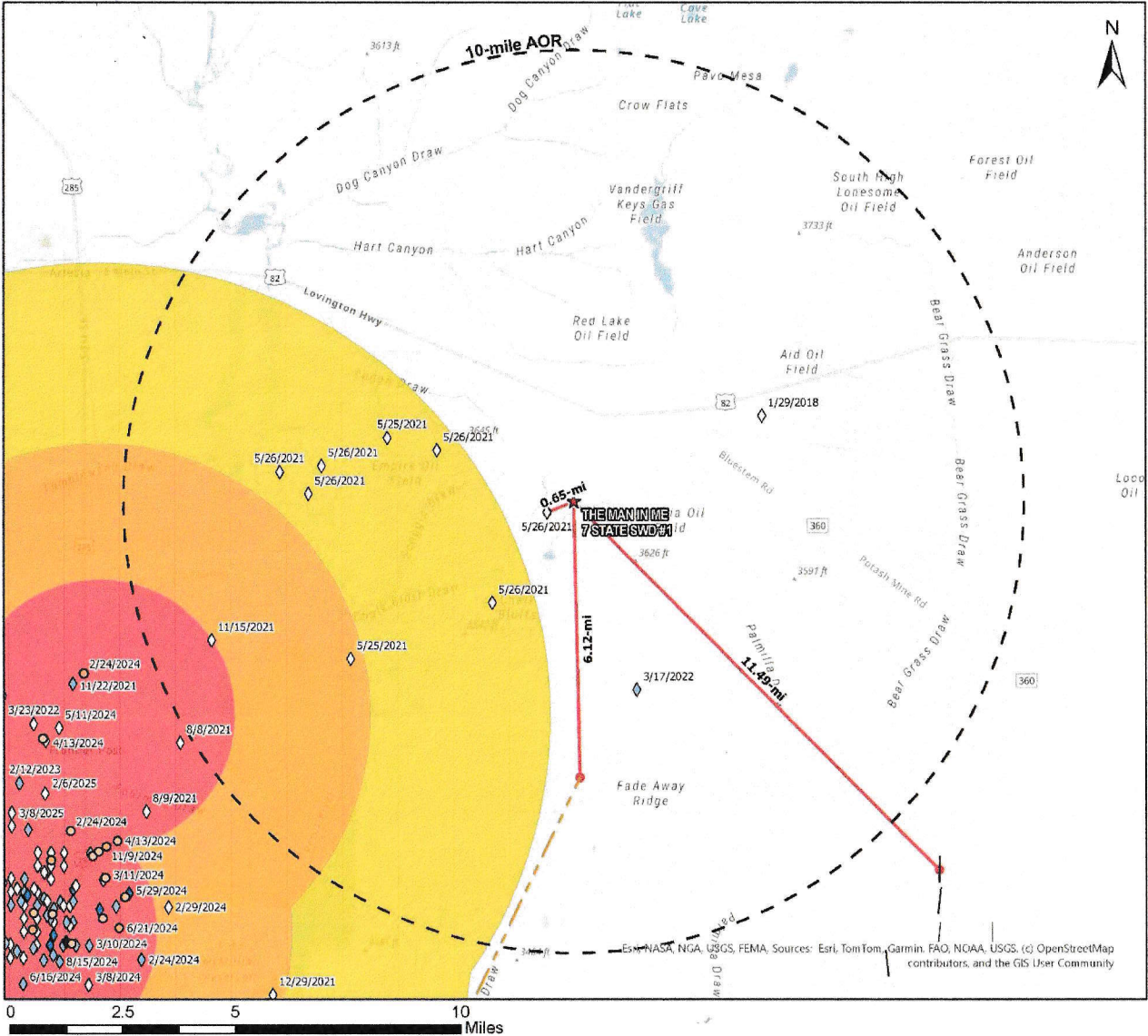
Thomas Tomastik
Chief Geologist

Riley Permian Operating Company, LLC
Man in Me 7 SWD #1 Seismic Potential Letter
September 12, 2025

Attachment 1
Seismic Event Map

Riley Permian Operating Company, LLC
Man in Me 7 SWD #1 Seismic Potential Letter
September 12, 2025

Man in Me 7 SWD #1 Nearby Seismic Events and Faults



Legend

- ★ Proposed SWD
- Shallow Faults (0)
- Deep Faults (1)

Stress Orientations (Lund, Snee, Zoback 2020)

Indicator, Quality

- | Wellbore, A (3)
- | Wellbore, B (2)

USGS Seismic Events - 8/20/2025

Magnitude

- 0.0 - 2.0 (0)
- 2.1 - 3.0 (11)
- 3.1 - 4.0 (5)
- 4.1 - 5.4 (0)

NMTSO Seismic Events - 9/11/2025

Magnitude

- ◇ 0 - 2.0 (67)
- ◇ 2.1 - 3.0 (33)
- ◇ 3.1 - 4.0 (6)
- ◇ 4.1 - 4.5 (1)

Seismic Response 3.5 and above

- 3 mi.
- 6 mi.
- 10 mi.

Seismic Analysis AOR

THE MAN IN ME 7 STATE SWD #1
EDDY COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	September 11, 2025	Mapped by: Ben Bockelmann
-------------------------	--------------------	------------------------------

Prepared for:

Prepared by:

Application for Authorization to Inject
Well Name: The Man in Me 7 State SWD #1

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

A.

(1) General Well Information:

Operator: Riley Permian Operating Company, LLC (OGRID No. 372290)
Lease Name & Well Number: The Man in Me 7 State SWD #1
Location Footage Calls: 186' FNL & 783' FEL
Legal Location: Lot A, S7 T18S R28E
Ground Elevation: 3,623'
Proposed Injection Interval: 7,100' – 8,500'
County: Eddy

(2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	54.5 lb/ft	450'	300	Surface	Circulation
Intermediate	12-1/4"	9-5/8"	43.5 lb/ft	2,300'	700	Surface	Circulation
Production	8-3/4"	7"	26 lb/ft	8,600'	1,000	Surface	CBL
Tubing		4-1/2"	11.6 lb/ft	7,080'			

(3) Tubing Information:

4-1/2" (11.6 lb/ft) fiberglass or equivalent lined tubing with setting depth of 7,080'.

(4) Packer Information: AS1-X or equivalent packer set at 7,080'.

B.

(1) Injection Formation Name: Wolfcamp and Cisco-Canyon

Pool Name: SWD; Wolfcamp and SWD; Cisco-Canyon

Pool Code: 96135 and 96186

(2) Injection Interval: Perforated injection between 7,100' – 8,500'

(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.

- Glorieta Sandstone (3,110')
- Yeso Group (4,090')
- Abo Formation (5,300')
- Bone Spring (6,225')
- Wolfcamp (6,610')

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

- Strawn (8,930')
- Morrow (9,948')

V – Well and Lease Details

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

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

VI – AOR Well List

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

Twenty wells have been drilled in the 1/2-mile AOR. Only one well penetrates the proposed injection interval and it is properly cased and cemented through the proposed injection zone.

VII – Proposed Operation

- (1) **Proposed Maximum Injection Rate:** 10,000 bpd
Proposed Average Injection Rate: 5,000 bpd
Step Rate Test: Riley Permian intends to conduct a Step Rate Test (SRT) at the proposed The Man in Me 7 State 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:** 1,420 psi (surface)
Proposed Average Injection Pressure: Approximately 1,050 psi (surface)
- (4) **Source Water Analysis:** The expected injectate will consist of produced water from production wells completed in the Glorieta, Yeso, Bone Spring, Abo, and Delaware 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 Wolfcamp and Cisco-Canyon, which are non-productive zones known to be compatible with formation water from Glorieta, Yeso, Bone Spring, Abo, and Delaware formations. Water analyses from these formation in the area are included as **Attachment 4**.

VIII – Geologic Description

The proposed injection interval includes the Lower Wolfcamp Formation and Cisco and Canyon formations from 7,100' – 8,500'. The Lower Wolfcamp Formation is composed of shales and carbonate rocks. The Permian-aged Cisco and Canyon formations consist primarily of carbonate rocks composed of limestones, dolomites, and some alternating shales. These rocks have secondary porosity and permeability development, indicating these formations are viable injection targets.

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**.

Attachment 5 also includes a response to the location of the well in a designated high karst area. Expert assessment of induced seismicity potential as well as an induced seismicity are presented in **Attachment 6**.

The base of the USDW is the Yates Formation at a depth of approximately 450 feet. Depth of the nearest water well in the area is approximately 130 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.

XI – Fresh Groundwater Samples

Based on a review of data from the New Mexico Office of the State Engineer, there are three groundwater wells located within 1-mile of the proposed SWD location. Permission to sample these wells has been requested.

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 and proof of notice are included as **Attachment 9**.

Attachments

Attachment 1:

- C-102
- Wellbore Diagram
- Packer Diagram

Attachment 2: Area of Review Information:

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

Attachment 3: Source Water Analysis

Attachment 4: Injection Formation Water Analysis

Attachment 5: Reservoir Characterization

Attachment 6: Water Well Map and Well Data

Attachment 7: No Hydrologic Connection Statement

Attachment 8: Seismic Potential Letter

Attachment 9: Technical Assessment and Workover Details

Attachment 10: List of Affected Persons and Proof of Notice

Attachment 1

- C-102
- Wellbore Diagram
- Packer Diagram

Attachment 5

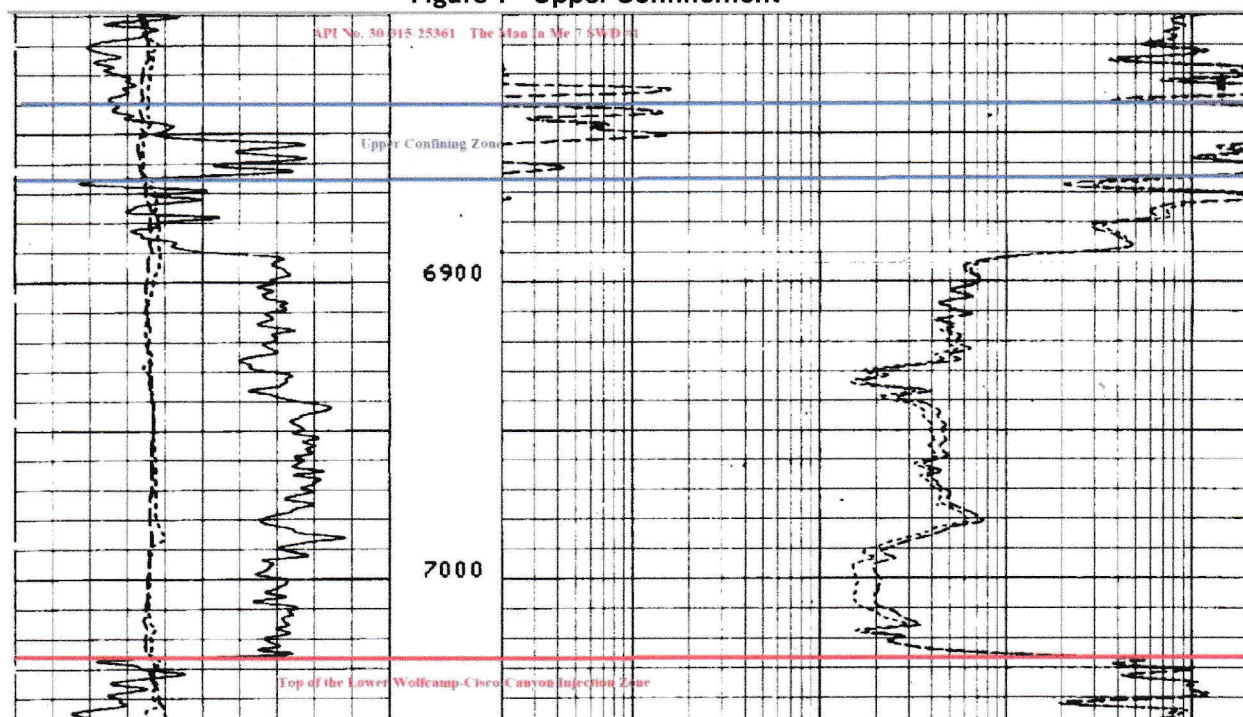
Reservoir Characterization

Reservoir Characterization at The Man in Me 7 State SWD #1**1. Injection Formation and Confinement****a. Injection Formation**

The proposed injection interval includes the Lower Wolfcamp Formation and Cisco and Canyon formations from 7,100' – 8,500'. The Lower Wolfcamp Formation is composed of shales and carbonate rocks. The Permian-aged Cisco and Canyon formations consist primarily of carbonate rocks composed of limestones, dolomites, and some alternating shales. These rocks have secondary porosity and permeability development, indicating these formations are viable injection targets.

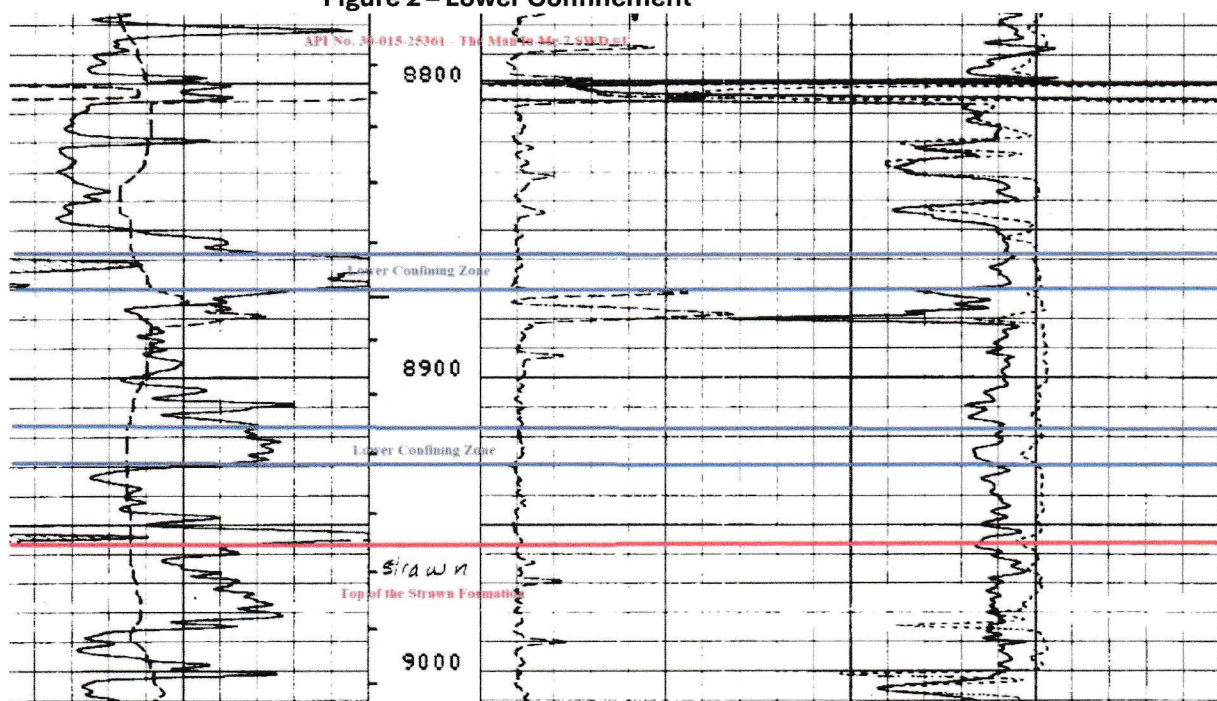
b. Upper Confinement

Nearby open hole geophysical well logs indicate the proposed Lower Wolfcamp-Cisco-Canyon injection zone is overlain by at least 25 feet of tight shales within Wolfcamp Formation, which will prevent the upward migration of fluids and act as the upper confining layer.

Figure 1 – Upper Confinement**c. Lower Confinement**

Nearby open hole geophysical well logs indicate the proposed Cisco-Canyon injection interval is underlain by approximately 22 feet of low porosity and low permeability rocks within the lower Canyon Formation, which will prevent the downward migration of fluid and act as the lower confining layer.

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 Man in Me 7 State SWD #1 does not show any historic or current hydrocarbon production from the Cisco-Canyon formations.

b. Commercial Water Sources

A review of all wells in the NMOCD and OSE databases within a 2-mile radius of the The Man in Me 7 State SWD #1 does not show any historic or current commercial water supply sources from the Cisco-Canyon formations.

c. Enhanced Oil Recovery

A review of all wells in the NMOCD database within a 2-mile radius of The Man in Me 7 State SWD #1 does not show any historic or current enhanced oil recovery operations utilizing the overlying Wolfcamp Formation or in the Cisco-Canyon formations.



RILEY PERMIAN OPERATING COMPANY LLC – EASY FEELING 10 STATE SWD #1, THE MAN IN ME 7 SWD #1, AND JUST DROPPED IN 8 SWD #1 RESPONSES TO HIGH-RISK KARST AREAS

Introduction

ALL Consulting (ALL) has determined by the New Mexico Oil Conservation Division (OCD) that the proposed locations of Riley Permian Operating Company LLC's (Riley Permian) Easy Feeling 10 State SWD #1, The Man in Me 7 SWD #1, and Just Dropped in 8 SWD #1 Class II saltwater disposal (SWD) well applications are within the area OCD has designated as high-risk karst. **Figure 1** is the location of the proposed SWDs. OCD has requested that ALL include additional information within these applications to address OCD's concerns with the high-risk karst area. This additional information needs to include:

1. An explanation on how ALL determined the deepest underground sources of drinking water (USDW);
2. An evaluation of the geology to determine that there was no direct evidence of surface karst features in the immediate area;
3. Provide an affirmative statement that the proposed well designs and confining zones will protect the USDWs; and
4. Provide a detailed description of both the upper and lower confining zones above and below the proposed injection interval in the Cisco Formation.

Karst in Southeastern New Mexico

ALL has reviewed more recently published geologic publications on the Capitan Reef Complex and karst areas in southeastern New Mexico and then also examined the well completion records and the closest open hole geophysical logs to the proposed Easy Feeling 10 State, The Man in Me 7 SWD #1, and Just Dropped In 8 SWD #1 well locations. Anthropogenic sinkholes in the Permian evaporite beds of southeastern New Mexico are often associated with historic oilfield development due to improperly cased oil and water supply wells and salt-solution mining activity (Land 2013). Manmade sinkholes are caused by the dissolution of the evaporite beds in the Upper Permian formations that contain evaporite deposits by introduction of freshwater, undersaturated brine fluids, or groundwater into the evaporite beds. **Figure 2** shows the location of these sinkholes in southeastern New Mexico. Naturally occurring sinkholes are often associated with upward migration of groundwater flow from karstic aquifers of regional extent that underlie the Permian evaporite deposits (Land 2013).

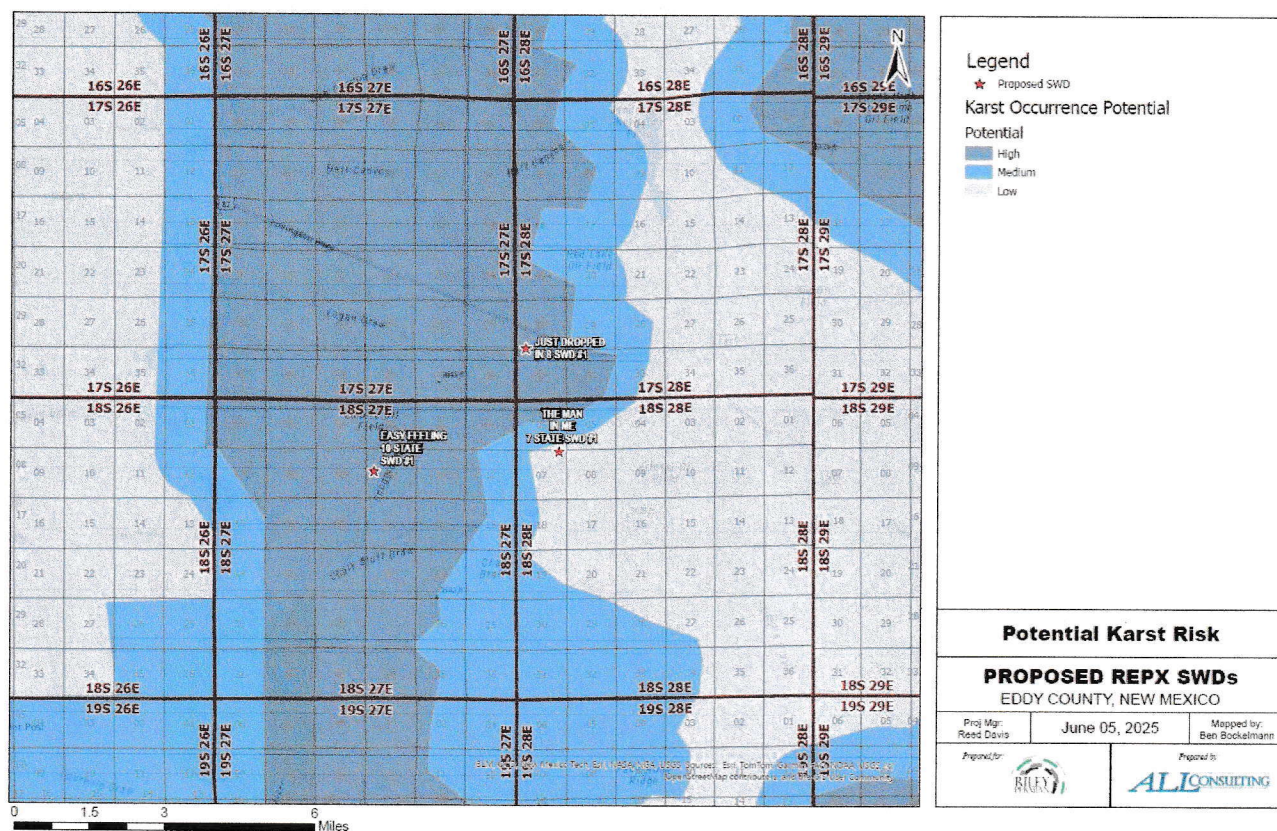


Figure 1. Map Showing the Proposed Locations of the Riley Permian SWDs

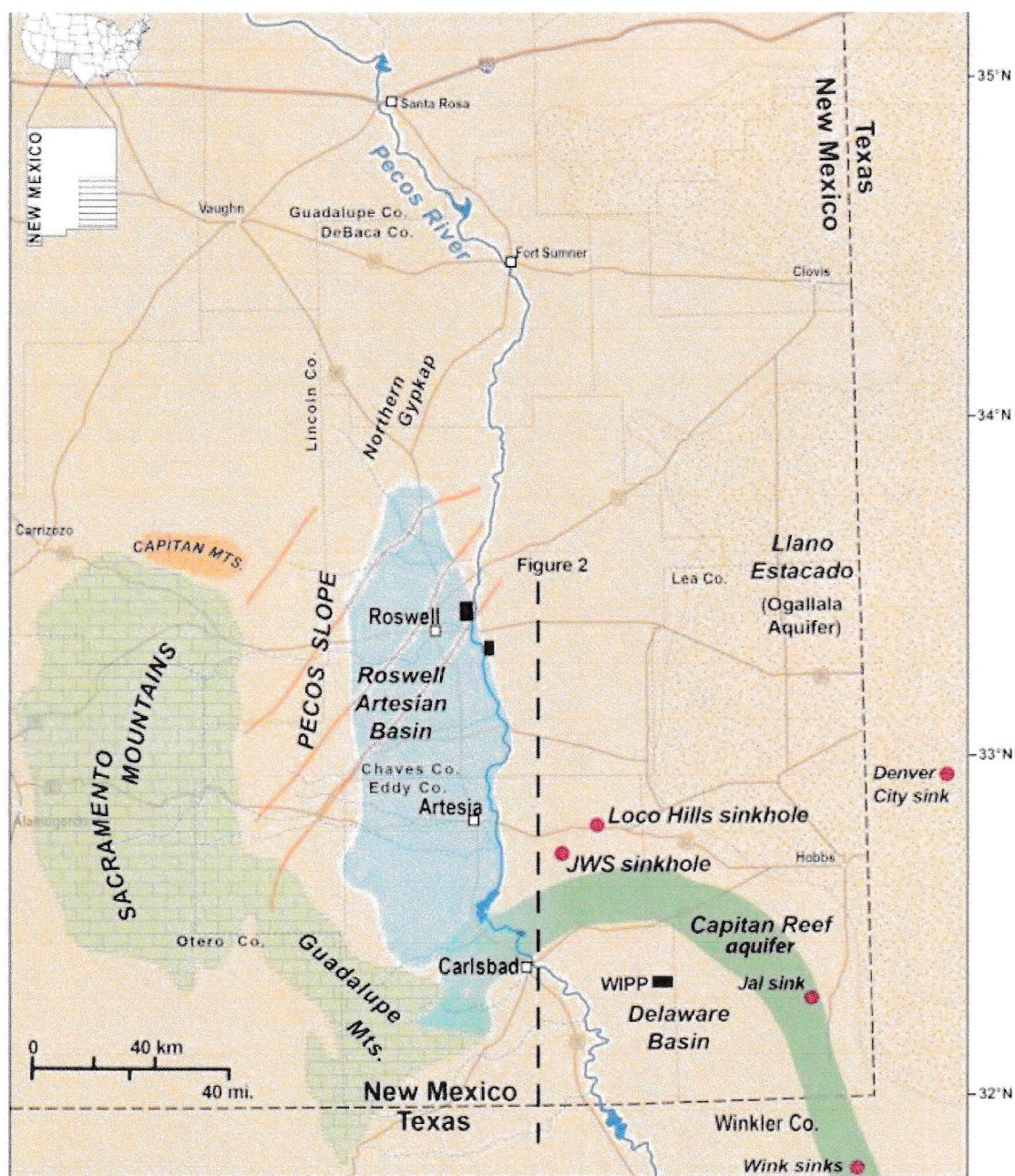


Figure 2. Regional Map of the Lower Pecos Region of Southeastern New Mexico Showing Location of Sinkholes (Land 2013)

Surface and Shallow Subsurface Geology of the Proposed SWD Locations

The surficial and shallow geology in the Chalk Bluff Draw and Logan Draw area may be either the Rustler Formation or on the surface the Chalk Bluff Formation and in the subsurface the Three Twins member (equivalent to Tansill and Yates formations), Seven Rivers gypsiferous member, and Queen member of the Whitehorse Group and occurs within the Mescalero Pediment (Hendrickson and Jones, 1952). **Figure 3** is a snip of this surficial geologic map showing the proposed SWD locations in relation to the surface geologic formations.

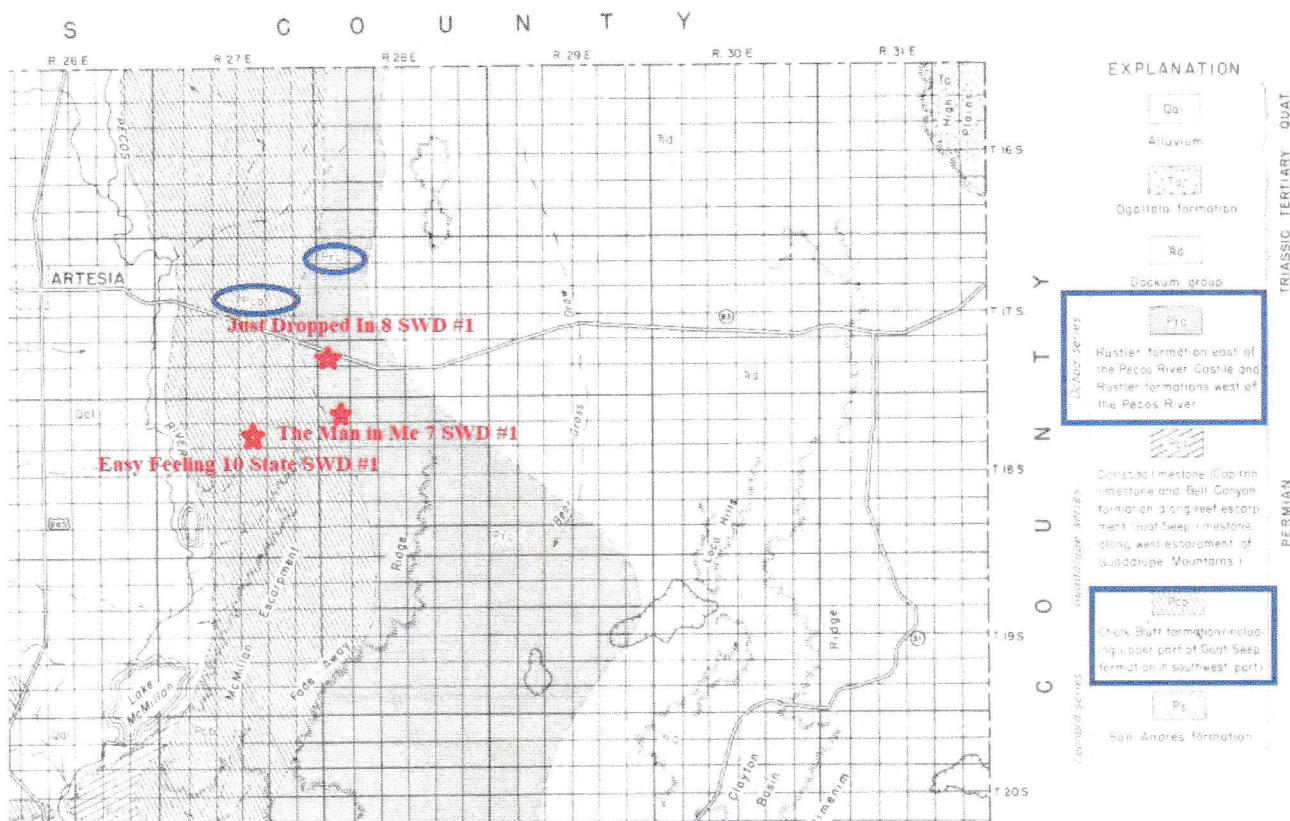


Figure 3. Map Showing the Location of the Proposed SWDs in Relation to the Surficial Geology in the Permian Formations (Hendrickson and Jones, 1952)

Additionally, ALL evaluated and assessed the shallow geology in the area by reviewing open hole geophysical logs. Well API No. 015-42372, which is located approximately 0.12 miles southwest of the Just Dropped In 8 SWD #1 location, has a shallow gamma ray-neutron log section and ALL has identified the shallow subsurface geologic formations on this log snip in **Figure 4**.

The Yates Formation consists of about 300 feet of alternating beds of sandstone and dolomite in the carbonate facies and about the same thickness of gypsum, red clay, silt, and sandstone in the evaporite facies (Cox 1967). The Yates Formation yields water to stock wells near the Pecos

River between Lake McMillan and Lake Avalon and most of these stock wells are in the evaporite facies of the Yates Formation (Cox 1967). Underlying the Yates Formation is the Seven Rivers Formation. The Seven Rivers Formation consists of about 300 feet of dolomite with a few sandy beds in the carbonate facies and anhydrite, gypsum, red silt, and clay in the evaporite facies between the uppermost sandstone in the Queen Formation and the basal sandstone of the Yates Formation (Cox 1967). Groundwater moves through solution channels and groundwater flow direction is towards the Pecos River (Hendrickson and Jones, 1952).

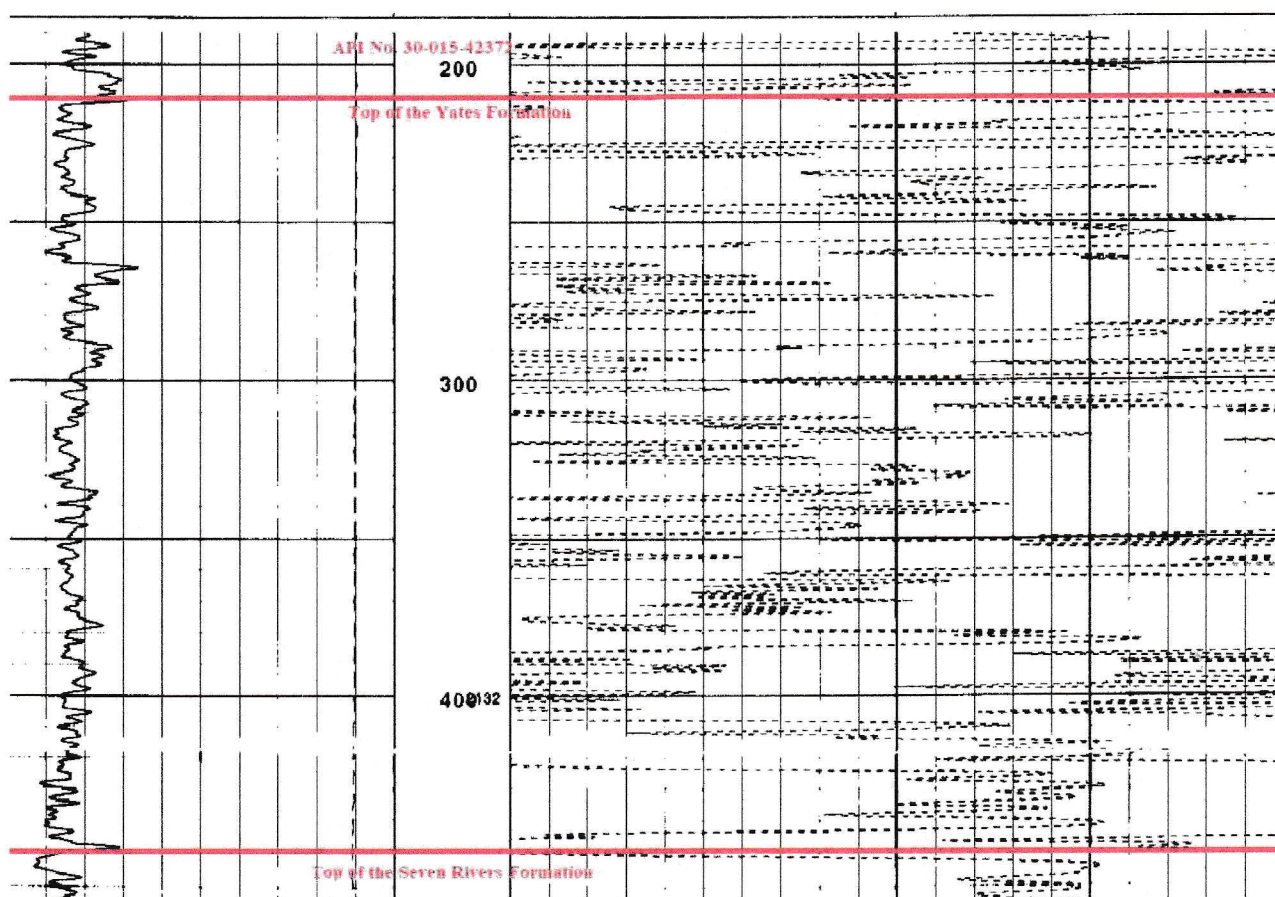


Figure 4. Gamma Ray Geophysical Log from Well API No. 015-42372 Showing the Tops of the Shallow Subsurface Formations

Addressing OCD's High-Risk Karst Area Concerns

Based on ALL's extensive geologic and hydrogeologic evaluation of the Chalk Bluff Draw and the Logan Draw areas and the Easy Feeling 10 State SWD #1, The Man in Me 7 SWD #1, and Just Dropped In 8 SWD #1 proposed well locations, below are ALL's responses to these OCD concerns.

1. An explanation on how ALL determined the deepest underground sources of drinking water (USDW).
 - a. **ALL determined the base of the USDW after geological and hydrogeological analysis and evaluation of several open hole geophysical logs and publications within the vicinity of the proposed SWDs. Based on ALL's analysis, the base of the USDW will be the bottom of the Yates Formation and using the ground elevations of the proposed SWDs the base of the USDW will be approximately 425 to 450 feet below the surface. ALL is proposing that Riley Permian set surface casing to a depth of 450 feet and cement back to the surface to ensure isolation of the base of the USDW.**
2. An evaluation of the geology to determine that there was no direct evidence of karst features in the immediate area.
 - a. **ALL performed an extensive geologic and hydrogeologic assessment of potential high-risk karst in the immediate area of the proposed SWDs in the between the Chalk Bluff Draw and Logan Draw. Based on the evaluation of published geologic and hydrogeologic reports and maps, the immediate area of the proposed SWDs does not seem to be in the direct area of karst development. Additionally, ALL assessed Google Earth and scanned the immediate area for any evidence of active or inactive surface sinkholes and Figure 5 shows the approximate locations of the proposed SWDs and existing karst features. Based on ALL's research, the Main in Me 7 SWD #1 has the possibility of encountering karst. If during the drilling into the Yates or Seven River formations, circulation is lost due to dissolution of evaporites or solution channels, a drilling mud program may be implemented along with the utilization of lost circulation material (LCM) as needed.**
3. Provide an affirmative statement that the proposed well designs and confining zones will protect the USDW.
 - a. **ALL's proposed well construction and cementing plans for the Man in Me 7 SWD #1 and Just Dropped in 8 SWD #1 will provide multiple layers of protection of the USDW from the injection zone in the Cisco-Canyon formations. The surface casing will be below the base of the USDW and cemented back to the surface. An intermediate casing string set at approximately 3,200 feet and cemented back to the surface and then the production casing will be set through the proposed injection interval in the Cisco-Canyon formations and cemented back in two stages up into the intermediate casing string for at least 200 feet. The well construction and cementing plan provides for three layers of isolation and protection of the USDW from any possible migration of injection fluids out of the proposed injection interval. There are multiple confining zones in both shale and in low porosity and low permeable carbonate rocks which will prevent upward migration of injected fluids. Additionally, there is at least 7,550 of vertical separation between the top of the Cisco Formation and the base of the**

b. ALL's proposed well construction and cementing plans for the Easy Feeling 10 State SWD #1 will provide multiple layers of protection of the USDW from the injection zone in the Lower Wolfcamp-Cisco-Canyon formations. The surface casing will be below the base of the USDW and cemented back to the surface. An intermediate casing string set at approximately 3,200 feet and cemented back to the surface and then the production casing will be set through the proposed injection zone in the Lower Wolfcamp-Cisco-Canyon formations and cemented back in two stages up into the intermediate casing string for at least 200 feet. The well construction and cementing plan provides for three layers of isolation and protection of the USDW from any possible migration of injection fluids out of the proposed injection interval. There are multiple confining zones in both shale and in low porosity and low permeable carbonate rocks which will prevent upward migration of injected fluids. Additionally, there is at least 6,960 of vertical separation between the top of the of the Lower Wolfcamp Formation and the base of the USDW. There is no hydrologic connection between the Lower Wolfcamp-Cisco-Canyon injection zone in the Easy Feeling 10 State SWD #1 and the USDW or the Cisco-Canyon injection zones and the USDW in the other two SWDs.

4. Provide a detailed description of both the upper and lower confining zones above and below the proposed injection interval in the Lower Wolfcamp-Cisco-Canyon formations.
 - a. **There are multiple low porosity zones that will serve as upper confinement above the top of the proposed injection zone in the Lower Wolfcamp-Cisco-Canyon formations for the Easy Feeling 10 State SWD #1 (Figure 6). Additional confining zones can be located farther above these zones on this open hole geophysical log for API No. 30-015-34171. There is lower confinement with shale beds at the base of the Cisco Formation (Figure 7) and with the low porosity and low permeability carbonate rocks directly below the Cisco Formation in the upper part of the Strawn Formation, which is also labeled on Figure 7. Both upper and lower confining zones will act as barriers to fluid flow out of the permitted Lower Wolfcamp- Cisco-Canyon formations injection zone in the Easy Feeling 10 State SWD #1 or the Cisco-Canyon injection zones in the Man in Me 7 SWD #1 or Just Dropped in 8 SWD #1 proposed SWDs.**

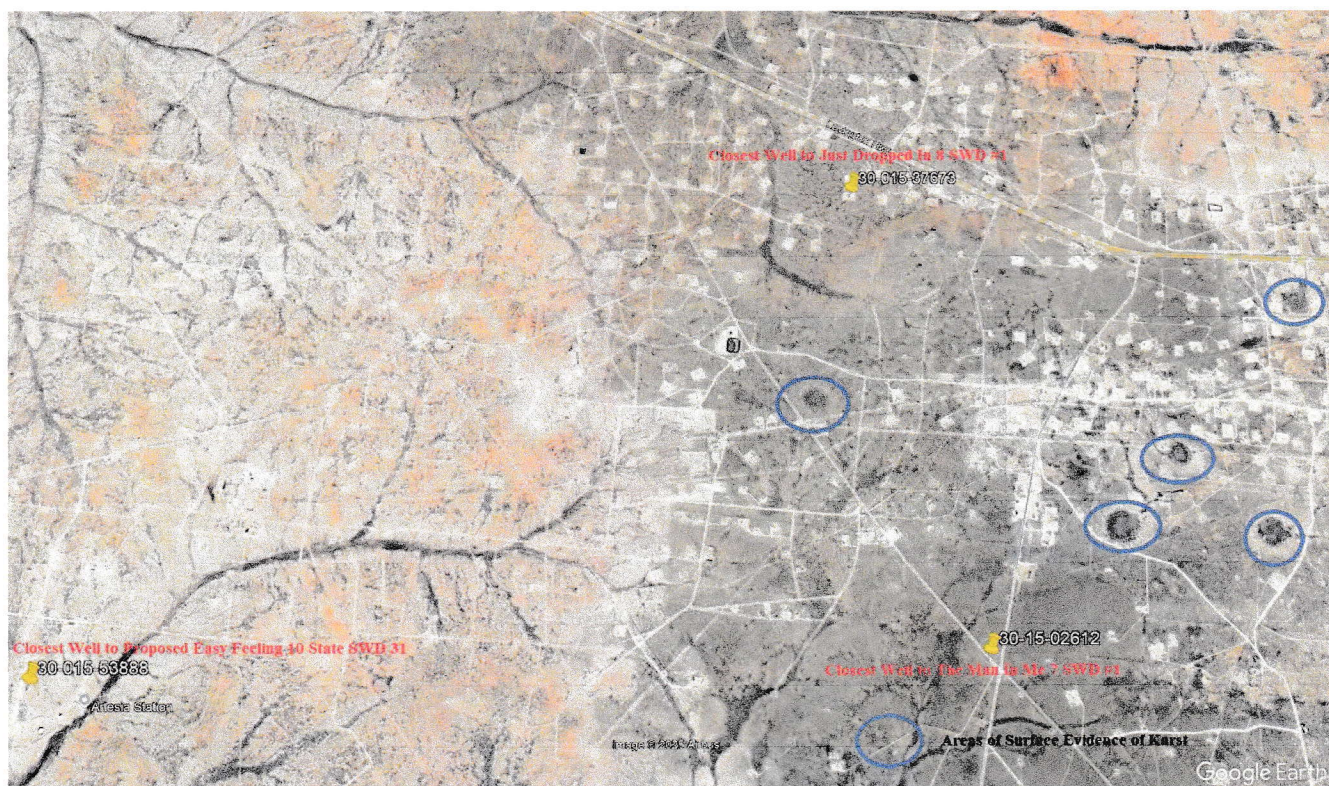


Figure 5. Map Showing the Location of the Proposed SWDs in Relation to Existing Karst Features in the Area

References

- Cox, E.R. 1967. "Geology and Hydrology Between Lake McMillan and Carlsbad Springs Eddy County, New Mexico." U.S. Geological Survey Water Supply Paper 1828, <https://pubs.usgs.gov/wsp/1828/report.pdf> (accessed June 9, 2022).
- Hendrickson, G.E. and Jones, R.S. 1952. "Geology and Ground-Water Resources of Eddy County, New Mexico." State Bureau of Mines and Mineral Resources of New Mexico, Institute of Mining & Technology, Ground-Water Report 3, <https://geoinfo.nmt.edu/publications/water/gw/3/GW3.pdf>. (accessed June 4, 2025).;
- Land, Lewis. 2013. "Evaporite Karst in the Permian Basin Region of West Texas and Southeastern New Mexico: The Human Impact." 13th Sinkhole Conference, NCKRI Symposium 2, www.researchgate.net/publication/313021019 (accessed June 9, 2022).

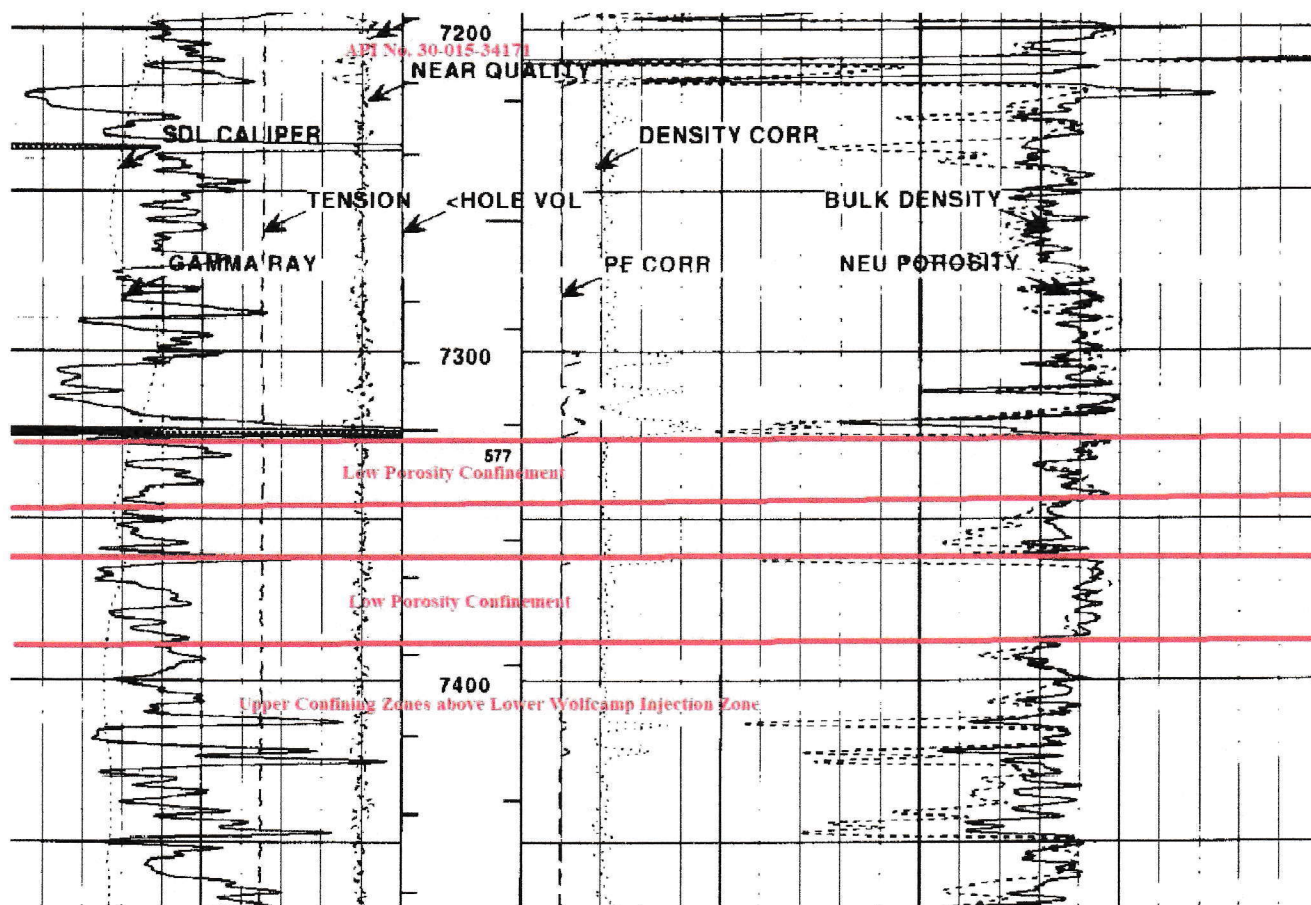


Figure 6. Open Hole Geophysical Log of API No. 30-015-34171 Showing the Upper Confining Zones for the Proposed Lower Wolfcamp – Cisco - Canyon Formation SWDs

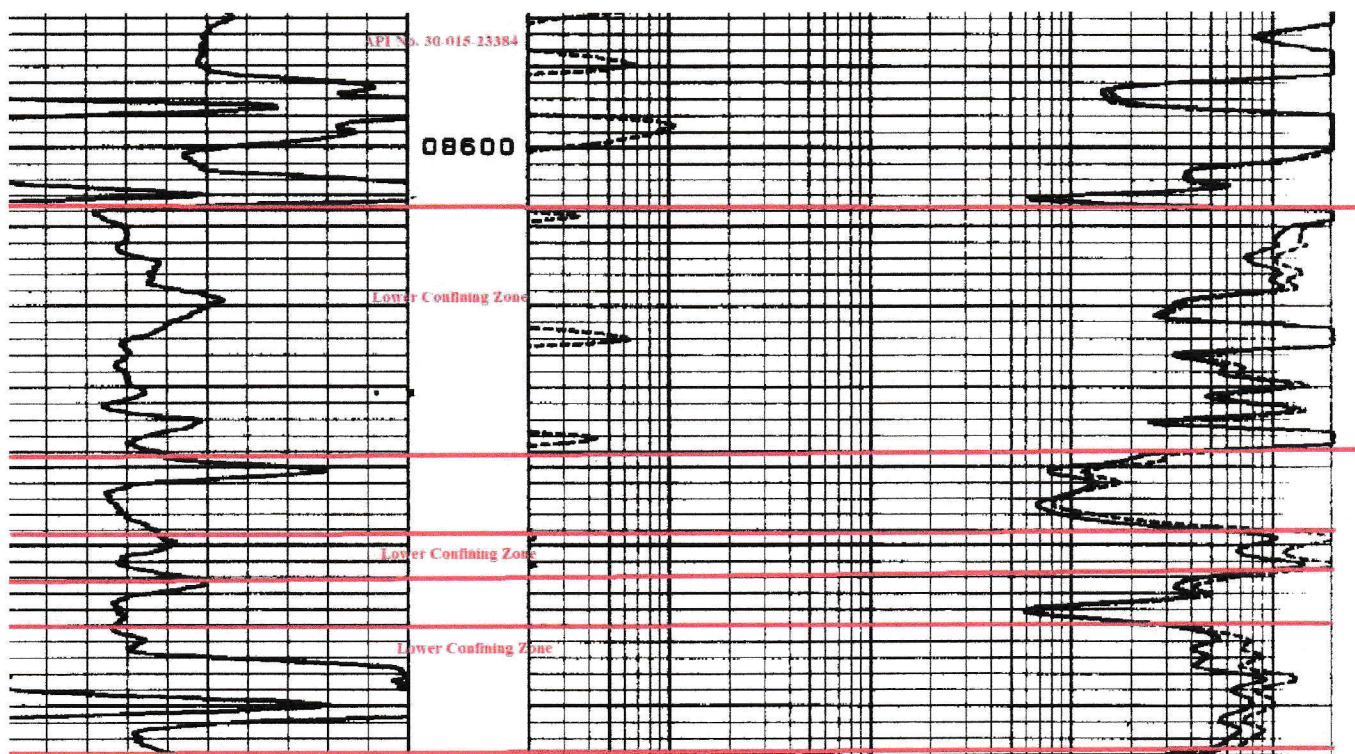


Figure 7. Lower Confining Zones at the Base of the Cisco-Canyon Formations in the Open Hole Geophysical Log for API No. 30-015-23384

Tom Tomastik

Date

Chief Geologist and Regulatory Specialist

Certified Petroleum Geologist #6354

ALL Consulting, LLC

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 624833

CONDITIONS

Operator: RILEY PERMIAN OPERATING COMPANY, LLC 29 E Reno Avenue Oklahoma City, OK 73104	OGRID: 372290
	Action Number: 624833
	Action Type: [C-108] Fluid Injection Well (C-108)

CONDITIONS

Created By	Condition	Condition Date
delilah.dougi	None	9/18/2026