AE Order Number Banner

Application Number: pEG2528349147

Initial Application Part I

SWD-2674

LONGFELLOW ENERGY, LP [372210]

Received: 10/01/2025

ALL CONSULTING
GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY
ENGINEERING · ENVIRONMENTAL

September 24, 2025

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

Subject: Longfellow Energy, LP (OGRID No. 372210)
Application for Authorization Inject – Nieuwendyk 28 SWD #1

To Whom it May Concern,

On behalf of Longfellow Energy, LP, ALL Consulting, LLC is submitting the enclosed Application for Authorization to Inject for the Nieuwendyk 28 SWD #1, a proposed saltwater disposal well, in Eddy County, NM.

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

Sincerely,
ALL Consulting

Reed Davis
Geophysicist

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:

ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

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

ADMINISTRATIVE APPLICATION CHECKLIST

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

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

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

1) **TYPE OF APPLICATION:** Check those which apply for [A]
A. Location – Spacing Unit – Simultaneous Dedication
☐ NSL ☐ NSP(PROJECT AREA) ☐ NSP(PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]
[I] Commingling – Storage – Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

FOR OCD ONLY
☐ Notice Complete
☐ Application Content Complete

2) **NOTIFICATION REQUIRED TO:** Check those which apply.
A. ☐ Offset operators or lease holders
B. ☐ Royalty, overriding royalty owners, revenue owners
C. ☐ Application requires published notice
D. ☐ Notification and/or concurrent approval by SLO
E. ☐ Notification and/or concurrent approval by BLM
F. ☐ Surface owner
G. ☐ For all of the above, proof of notification or publication is attached, and/or,
H. ☐ No notice required

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.

_____ Date

_____ Print or Type Name

_____ Phone Number

_____ Signature

_____ e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance __X__Disposal _____Storage
Application qualifies for administrative approval? __X__Yes _____No

II. OPERATOR: Longfellow Energy, LP

ADDRESS: 8115 Preston Rd. Suite 800, Dallas, TX 75225

CONTACT PARTY: David Cain PHONE: 972-590-9900

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 24, 2025

E-MAIL ADDRESS: rdavis@all-llc.com

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: File Electronically Via OCD Permitting

Application for Authorization to Inject
Well Name: Nieuwendyk 28 SWD #1

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

A.

(1) General Well Information:

Operator: Longfellow Energy, LP (OGRID No. 372210)
Lease Name & Well Number: Nieuwendyk 28 SWD #1
Location Footage Calls: 600 FSL & 1,695 FWL
Legal Location: Lot N, S28 T16S R31E
Ground Elevation: 3,977'
Proposed Injection Interval: 9,000' – 10,540'
County: Eddy

(2) Casing Information:

Type	Hole Size	Casing Size	Casing Weight	Setting Depth	Sacks of Cement	Estimated TOC	Method Determined
Surface	17-1/2"	13-3/8"	48.0 lb/ft	525'	360	Surface	Circulation
Intermediate	12-1/4"	9-5/8"	36.0 lb/ft	3,800'	1,170	Surface	Circulation
Production	8-3/4"	7"	26.0 lb/ft	10,640'	1,030	3,600'	CBL
Tubing		4-1/2"	11.6 lb/ft	8,980'			

(3) Tubing Information:

4-1/2" (17.0 lb/ft) fiberglass or equivalent lined tubing with setting depth of 8,980'.

(4) Packer Information: AS1-X or equivalent packer set at 8,980'.

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 9,000' - 10,540'

(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 (4,980')
- Tubb (6,310')
- Abo (6,940')

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

- Strawn (10,880')
- Morrow (11,900')

V – Well and Lease Details

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

- 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

VI – AOR Well List

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

Sixteen wells have been drilled in the 1/2-mile AOR. None of these wells penetrate 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: Select intends to conduct a Step Rate Test (SRT) at the proposed Nieuwendyk 28 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**: 1,800 psi (surface)
Proposed Average Injection Pressure: Approximately 1,170 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, Strawn, and Morrow 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 Formation and Cisco-Canyon formations, which are non-productive zones known to be compatible with formation water from the Abo, Yeso Group, Avalon Shale, Bone Spring, Strawn, and Morrow formations. Water analyses from the Wolfcamp and Cisco-Canyon formations 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 9,000' – 10,540'. 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***.

A seismic potential letter is included as ***Attachment 6***.

The base of the USDW is the Rustler Formation at a depth of approximately 525 feet. Depth of the nearest water well in the area is approximately 180 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, sonic, and cement bond log 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 no groundwater wells located within 1-mile of the proposed SWD location.

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

XII – No Hydrologic Connection Statement

No publicly known faulting is present in the area that would provide a hydrologic connection between the injection interval and overlying USDWs. Additionally, the casing program has been designed to ensure there will be no hydrologic connection between the injection interval and overlying USDWs.

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

XIII – Notice

A list of notice recipients 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: List of Affected Persons and Proof of Notice

Attachment 1

- C-102
- Wellbore Diagram
- Packer Diagram

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
Property Code	Property Name NIEUWENDYK 28 SWD		Well Number 1
OGRID No. 372210	Operator Name LONGFELLOW ENERGY, LP		Ground Level Elevation 3977.3
Surface Owner: ☐State ☐Fee ☐Tribal ☐Federal		Mineral Owner: ☐State ☐Fee ☐Tribal ☐Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	28	16 S	31 E		600 SOUTH	1695 WEST	32.8869943°N	103.8778275°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	28	16 S	31 E		600 SOUTH	1695 WEST	32.8869943°N	103.8778275°W	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: ☐Yes ☐No	

Kick Off Point (KOP)

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

First Take Point (FTP)

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

Last Take Point (LTP)

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

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☐Horizontal ☐Vertical	Ground Floor Elevation:

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best ofmy 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 run leased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order here to fore entered by the division.

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.

Signature Date

Printed Name

Email Address

SURVEYOR CERTIFICATIONS

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.

Signature and Seal of Professional Surveyor

FILIMON F. JARAMILLO

CertificateNumber PLS 12797

Dateof Survey JULY 31, 2025

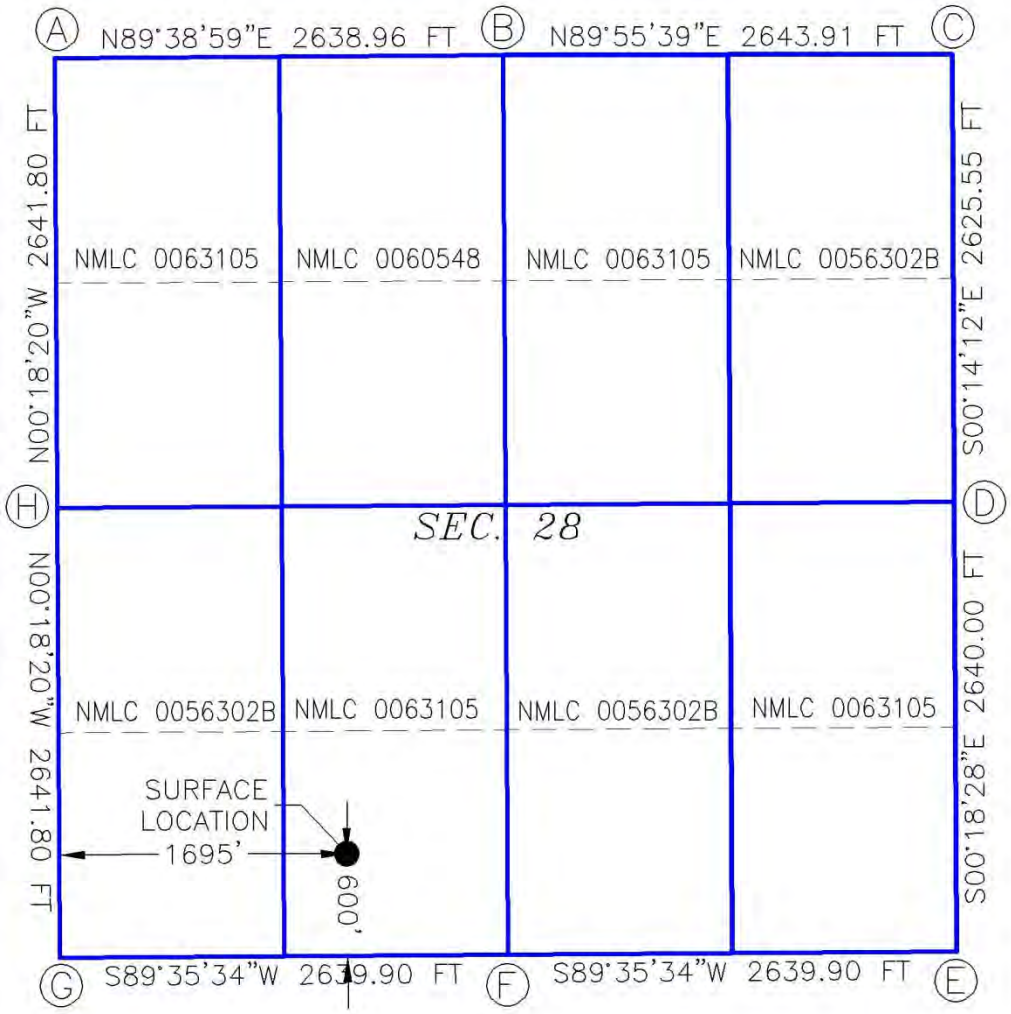
SURVEY NO. 10208D

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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



NIEUWENDYK 28 SWD 1
EL. = 3977.3

GEODETIC COORDINATES
NAD 83 NMSP EAST
SURFACE LOCATION
600' FSL, 1695' FWL
N.=686724.21
E.=681163.26
LAT.=32.8869943°N
LONG.=103.8778275°W

BOTTOM OF HOLE
600' FSL, 1695' FWL
N.=686724.21
E.=681163.26
LAT.=32.8869943°N
LONG.=103.8778275°W

CORNER COORDINATES TABLE
NAD 83 NMSP EAST

A –	N.=691394.50	E.=679443.74
B –	N.=691410.63	E.=682081.98
C –	N.=691413.98	E.=684725.21
D –	N.=688789.11	E.=684736.06
E –	N.=686149.83	E.=684750.24
F –	N.=686131.08	E.=682111.08
G –	N.=686112.32	E.=679471.91
H –	N.=688753.41	E.=679457.83

LEGEND
SECTION LINE
QUARTER LINE
LEASE LINE

GL Elevation: 3,377'

Base of the USDW
Rustler Formation plus 25 feet: 525'

17-1/2" borehole to 545'.
13-3/8" 48# H-40 surface casing set at 525'.
Cemented to surface using 360 sacks of Class C cement.
Top of cement verified by circulation.

Yates Formation
Top: 1,930'

Queen Formation
Top: 2,800'

San Andres Formation
Top: 3,510'

12-1/4" borehole to 3,820'.
9-5/8" 36# J-55 intermediate casing set at 3,800'.
Cemented to surface using 1,170 sacks of Class C cement.
Top of cement verified by circulation.

Glorieta Formation
Top: 4,980'

Tubb Formation
Top: 6,310'

Abo Formation
Top: 6,940'

Wolfcamp Formation
Top: 8,370'

DV Tool at 7,040'.

4-1/2" 11.6# L80 or N80 IPC injection tubing.
Set on a AS1-X or equivalent packer at 8,980'.

Proposed Injection Interval:
Lower Wolfcamp - Cisco - Canyon Formations
9,000' – 10,540'

Cisco Formation
Top: 9,715'

8-3/4" borehole to 10,660'.
7" 26# L80 or N80 production casing set at 10,660'.
Cemented 200 feet into the 9-5/8" intermediate casing using 1,030 sacks of Class C cement in two stages. Top of cement will be verified by cement bond log.

Total Depth: 10,640'

NOT TO SCALE

Prepared by:
ALL CONSULTING

Prepared for:
LONGFELLOW ENERGY, LP

Drawn by: Josh Ticknor

Project Manager: Reed Davis

Date: 9/15/2025

PROPOSED WELLBORE DIAGRAM
NIEUWENDYK 28 SWD #1
Longfellow Energy, LP
Sec. 28 Town. 16S Rng. 31E

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	-

[1] Maximum OD is across retracted drag blocks.
[2] Drilled 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.

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

[1]Maximum OD is across retracted drag blocks.
[2]Drilled 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.

ASI-X Packer Product Specifications (continued)

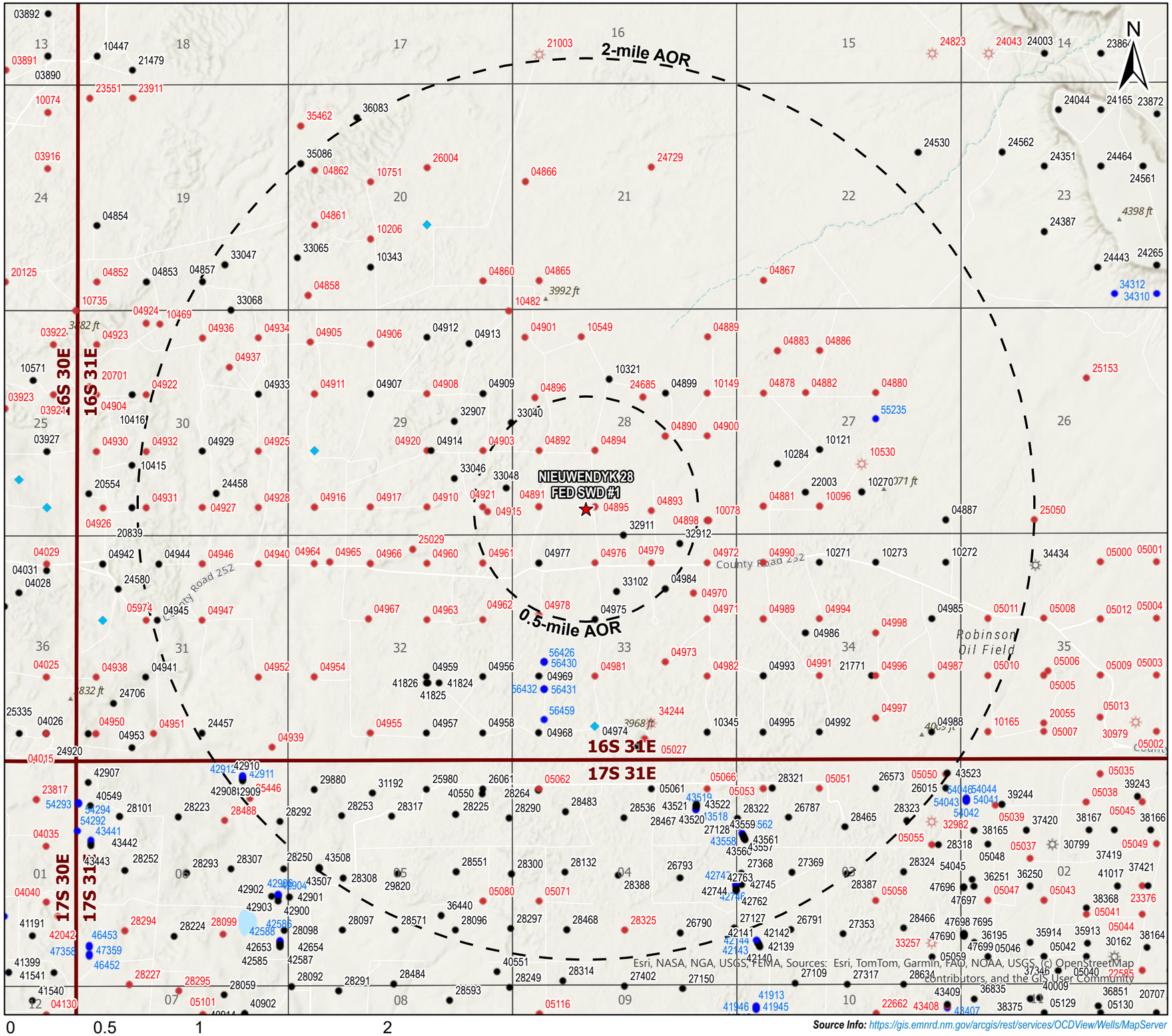
Casing		Recommended Hole Size (inches)	Gage OD (inches)	Max OD (inches)	Tool ID (inches)	Thread Connections Box Up / Pin Down	Part Number	
Size (inches)	Weight (lbs/ft)						Std	HT
7	17.0 - 20.0	6.456 - 6.538	6.250	6.281[1]	2.50	2-7/8 EUE	60372-625	-
				-	3.00	3-1/2 EUE	60374-625	-
	17.0 - 26.0	6.276 - 6.538	6.000	6.062[1]	2.50	2-7/8 EUE	60372[2]	60372HT[2]
				6.125[1]	3.00	3-1/2 EUE	60374	60374HT
	26.0 - 32.0	6.094 - 6.276	5.875	-	2.50	2-7/8 EUE	60370[2]	60370HT[2]
				5.936[1]	3.00	3-1/2 EUE	60373	60373HT
	29.0 - 35.0	6.004 - 6.184	5.812	-	2.50	2-7/8 EUE	60371[2]	60371HT[2]
	35.0	6.004	5.812	-	3.00	3-1/2 EUE	60373-35	-
7-5/8	24.0 - 29.7	6.875 - 7.025	6.672	-	2.50	2-7/8 EUE	60375	60375HT
				-	3.00	3-1/2 EUE	60378	60378HT
	33.7 - 39.0	6.625 - 6.765	6.453	-	2.50	2-7/8 EUE	60376	60376HT
				-	3.00	3-1/2 EUE	60377	60377HT
8-5/8	20.0 - 24.0	8.097 - 8.191	7.750	-	2.50	2-7/8 EUE	60384	-
	20.0 - 28.0	8.017 - 8.191	7.750	7.827[1]	4.00	4-1/2 EUE	60381	60381HT
	24.0 - 40.0	7.725 - 8.097	7.500	-	2.50	2-7/8 EUE	60385	60385HT
				-	3.00	3-1/2 EUE	60387	60387HT
	32.0 - 40.0	7.725 - 7.921	7.500	-	4.00	4-1/2 EUE	60382	60382HT
	44.0 - 49.0	7.511 - 7.625	7.312	-	2.50	2-7/8 EUE	60386	60386HT
9-5/8	32.3 - 43.5	8.755 - 9.001	8.500	-	4.00	4-1/2 EUE	60396S**	60396HT△
	43.5 - 53.5	8.535 - 8.755	8.250	-	4.00	4-1/2 EUE	60395S**	60395HT△
10-3/4	32.75 - 51.0	9.850 - 10.192	9.625	-	4.00	4-1/2 EUE	60301**	-
	51.0 - 65.7	9.560 - 9.850	9.312	-	4.00	4-1/2 EUE	60310**	-
11-3/4	42.0 - 65.0	10.682 - 11.084	10.438	10.502[1]	4.00	4-1/2 EUE	60311**	-
	66.7 - 80.5	10.406 - 10.656	10.200	-	4.00	4-1/2 EUE	60311Y	-
13-3/8	54.5 - 77.0	12.275 - 12.615	12.000	-	4.00	4-1/2 EUE	60313**	-
16	65.0 - 109.0	14.688 - 15.250	14.438	-	5.00	7" LTC	60316***	-
18-5/8	87.5 - 117.5	17.439 - 17.755	17.000	-	5.00	7" LTC	60318	-
20	133.0 - 169.0	18.376 - 18.730	18.000	-	5.00	7" LTC	60320	-

[1]Maximum OD is across retracted drag blocks.
[2]Drilled 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/Aflas, ECNER/HSN, EPDM
NOTE: All pricing includes standard Nitrile trim. Other sizes, connections, and rubber options available upon request.

Attachment 2

Area of Review Information:

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



Legend

- Proposed SWD (1)
- Gas, Active (4)
- Gas, Plugged (8)
- Oil, Active (240)
- Oil, New (42)
- Oil, Plugged (173)
- Reclamation Fund (6)
- Wells Producing from Target Injection Zone (0)

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

2-mile Production Review

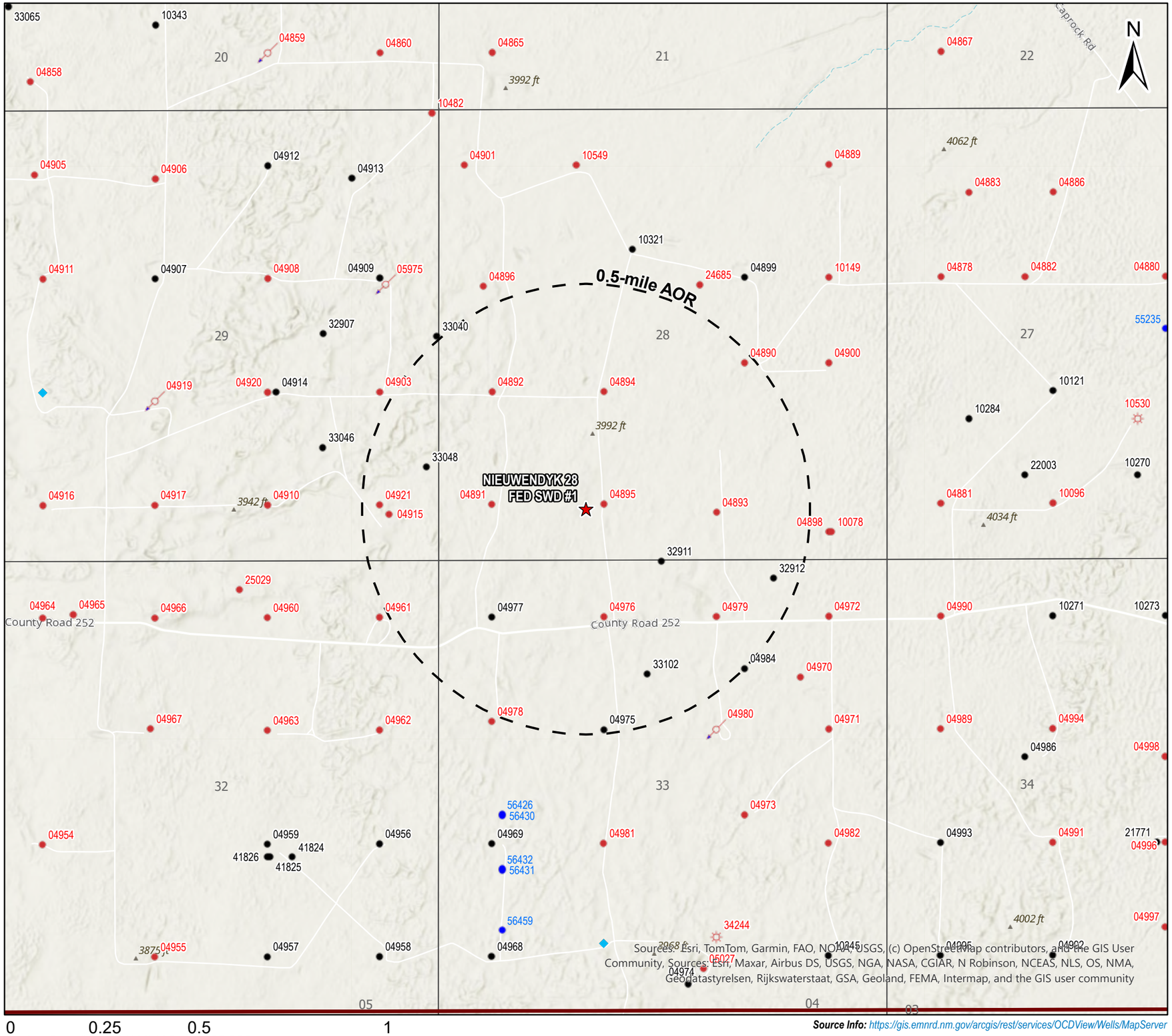
NIEUWENDYK 28 FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr:		Mapped by:
Reed Davis	July 10, 2025	Ben Bockelmann

Prepared for: LONGFELLOW ENERGY, LP

Prepared by: ALL CONSULTING



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Sources: Esri, Maxar, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community

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

Legend

- Proposed SWD (1)
- Gas, Plugged (2)
- Injection, Plugged (4)
- Oil, Active (41)
- Oil, New (6)
- Oil, Plugged (66)
- Reclamation Fund (2)

1/2-mile O&G Wells AOR

NIEUWENDYK 28 FED SWD #1

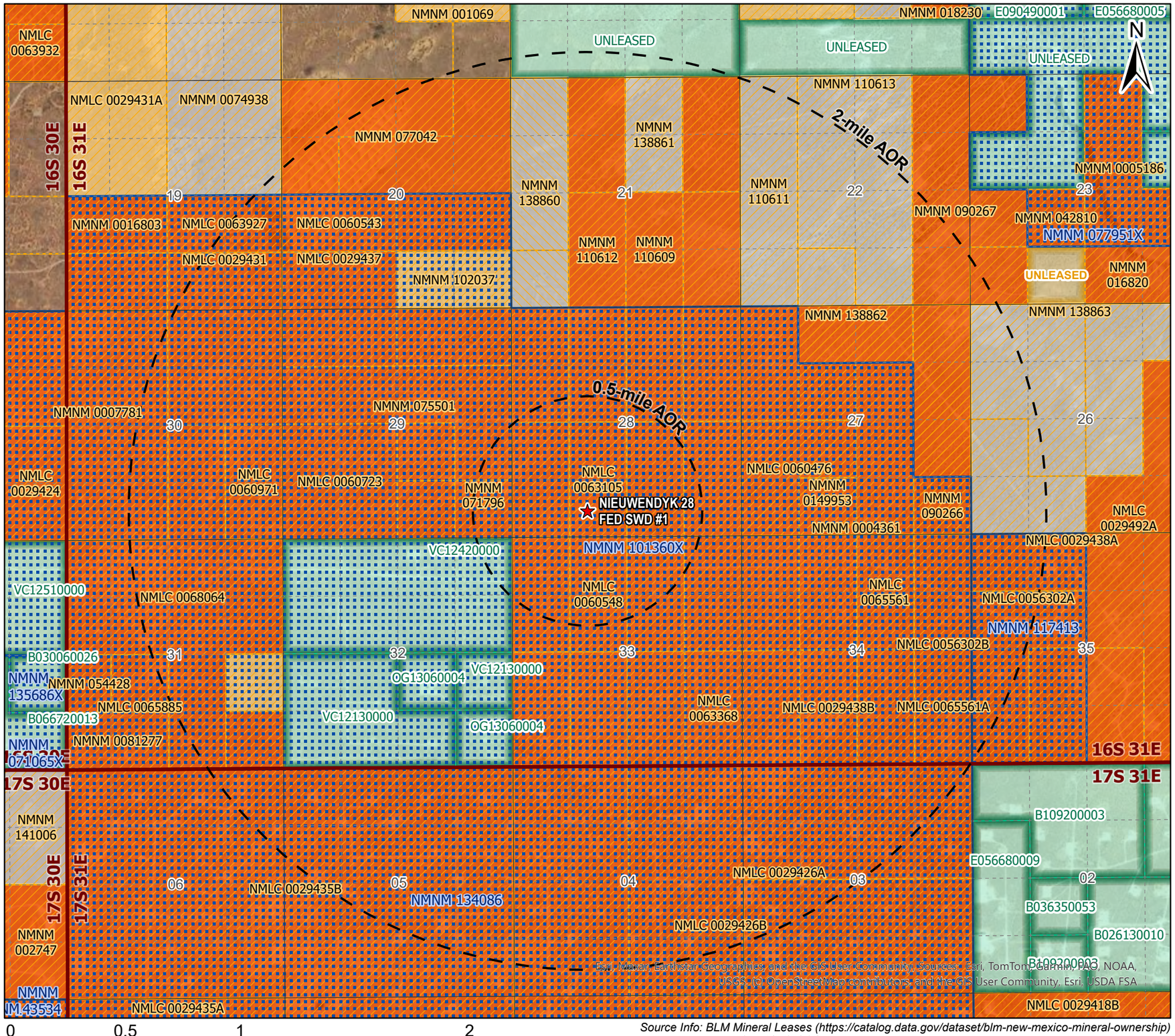
EDDY COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	July 10, 2025	Mapped by: Ben Bockelmann

Prepared for: LONGFELLOW ENERGY, LP

Prepared by: ALL CONSULTING

AOR Tabulation for Nieuwendyk 28 SWD #1 (Cisco-Canyon - Injection Interval: 9,850'-10,540'), Eddy County							
Well Name	**API#**	**Well Type**	**Operator**	**Spud Date**	**Location (Sec., Tn., Rng.)**	**Total Vertical Depth (feet)**	**Penetrate Inj. Zone?**
North Square Lake Unit #109	30-015-04977	Oil	Acacia Operating Compnay LLC	11/10/1944	33-16S-31E	3,470	No
Johnson #1	30-015-04976	Oil	G.B. Suppes	2/16/1944	33-16S-31E	3,497	No
North Square Lake Unit #187	30-015-33102	Oil	Acacia Operating Compnay LLC	12/8/2003	33-16S-31E	3,910	No
North Square Lake Unit #133	30-015-04975	Oil	Acacia Operating Compnay LLC	4/25/1944	33-16S-31E	3,612	No
North Square Lake Unit #111	30-015-04979	Oil	CBS Operating Corporation	7/15/1944	33-16S-31E	3,600	No
North Square Lake Unit #194	30-015-32912	Oil	Acacia Operating Compnay LLC	12/18/2003	33-16S-31E	3,700	No
North Square Lake Unit #184	30-015-32911	Oil	Acacia Operating Compnay LLC	11/16/2003	33-16S-31E	3,700	No
Johnson Federal #1	30-015-04893	Oil	Newmount Oil Corporation	2/26/1963	28-16S-31E	3,677	No
North Square Lake Unit #85	30-015-04895	Oil	CBS Operating Corporation	Unknown	28-16S-31E	3,625	No
Johnson #2	30-015-04891	Oil	G.B. Suppes	10/14/1944	28-16S-31E	3,587	No
North Square Lake Unit #083	30-015-04915	Oil	CBS Operating Corporation	5/8/1962	29-16S-31E	3,580	No
Grier #2	30-015-04921	Oil	D.D. Thomas et al	4/5/1944	29-16S-31E	3,434	No
North Square Lake Unit #200	30-015-33048	Oil	Acacia Operating Compnay LLC	12/8/2003	29-16S-31E	3,610	No
Johnson #4	30-015-04892	Oil	GP II Energy Inc.	3/8/1963	28-16S-31E	3,692	No
Federal #1	30-015-04894	Oil	Kennedy Oil Company, Inc.	10/31/1960	28-16S-31E	4,302	No
Kennedy #003	30-015-04890	Oil	Xeric Oil & Gas Corporation	9/21/1960	28-16S-31E	3,674	No



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 Mineral Leases
- NM_Unleased_BLMowned
- BLM Communitization Units

BLM O&G Leases

Case Disposition
- Authorized
- Interim
- Closed

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

1/2-mile Affected Parties AOR

BLM Unit Operators:
- REMNANT OIL OPERATING LLC

BLM Lessees:
- BOYLE JOHN W R TRUST
- CHASE OIL CORP
- DALE RESLER
- LLJ VENTURES LLC
- TAYLOE/TAYLOR JR TRUST
- VILAS P SHELDON
- XERIC OIL & GAS CORP
- XTO HOLDINGS LLC

NMSLO Lessees:
- LONGFELLOW LH, LLC

Mineral Lease AOR

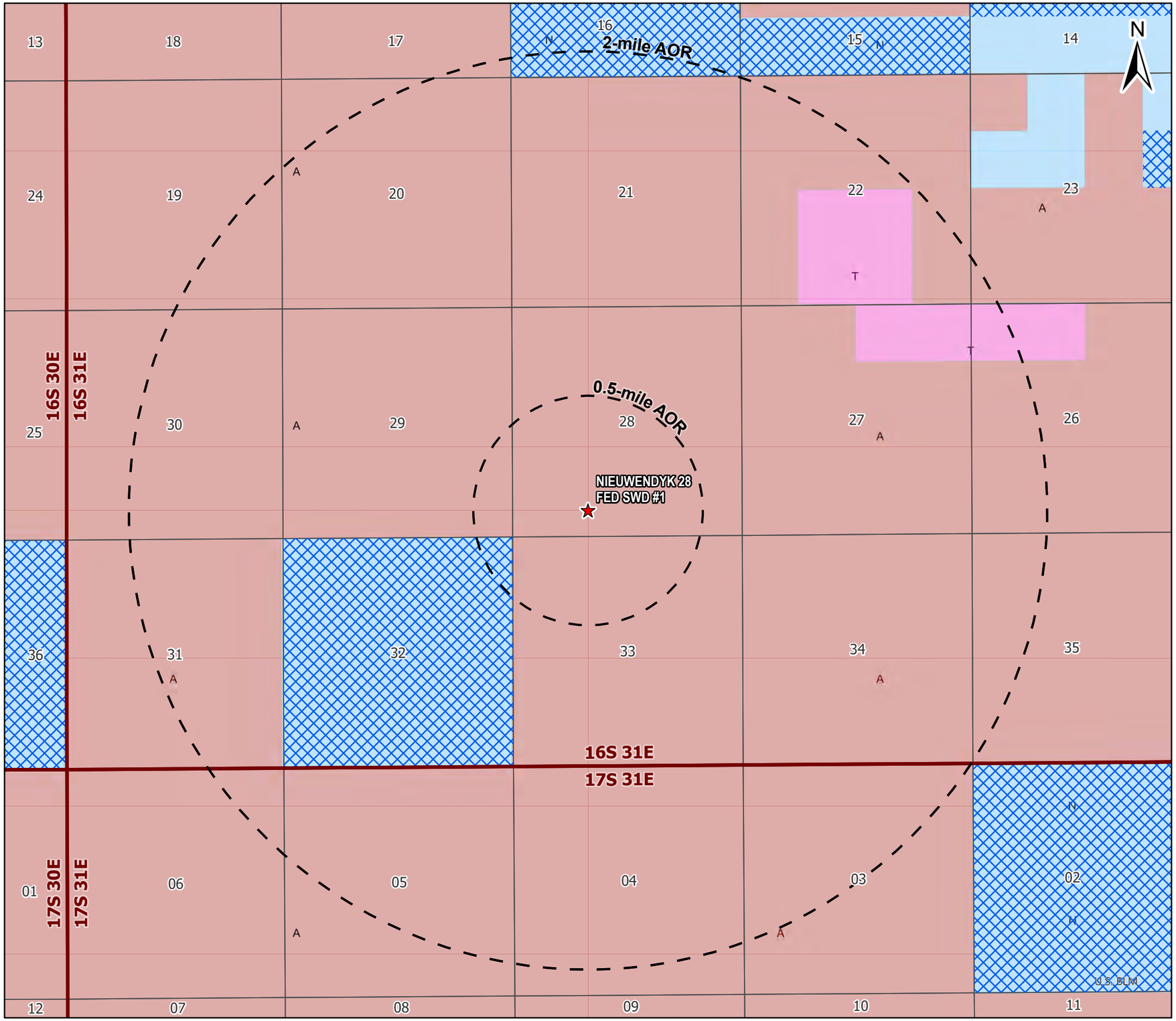
NIEUWENDYK 28 FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	July 10, 2025	Mapped by: Ben Bockelmann

Prepared for: LONGFELLOW ENERGY, LP

Prepared by: ALL CONSULTING



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

Legend

★ Proposed SWD

Mineral Ownership

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

NMSLO Ownership

- Surface and Subsurface

2-mile Mineral Ownership AOR

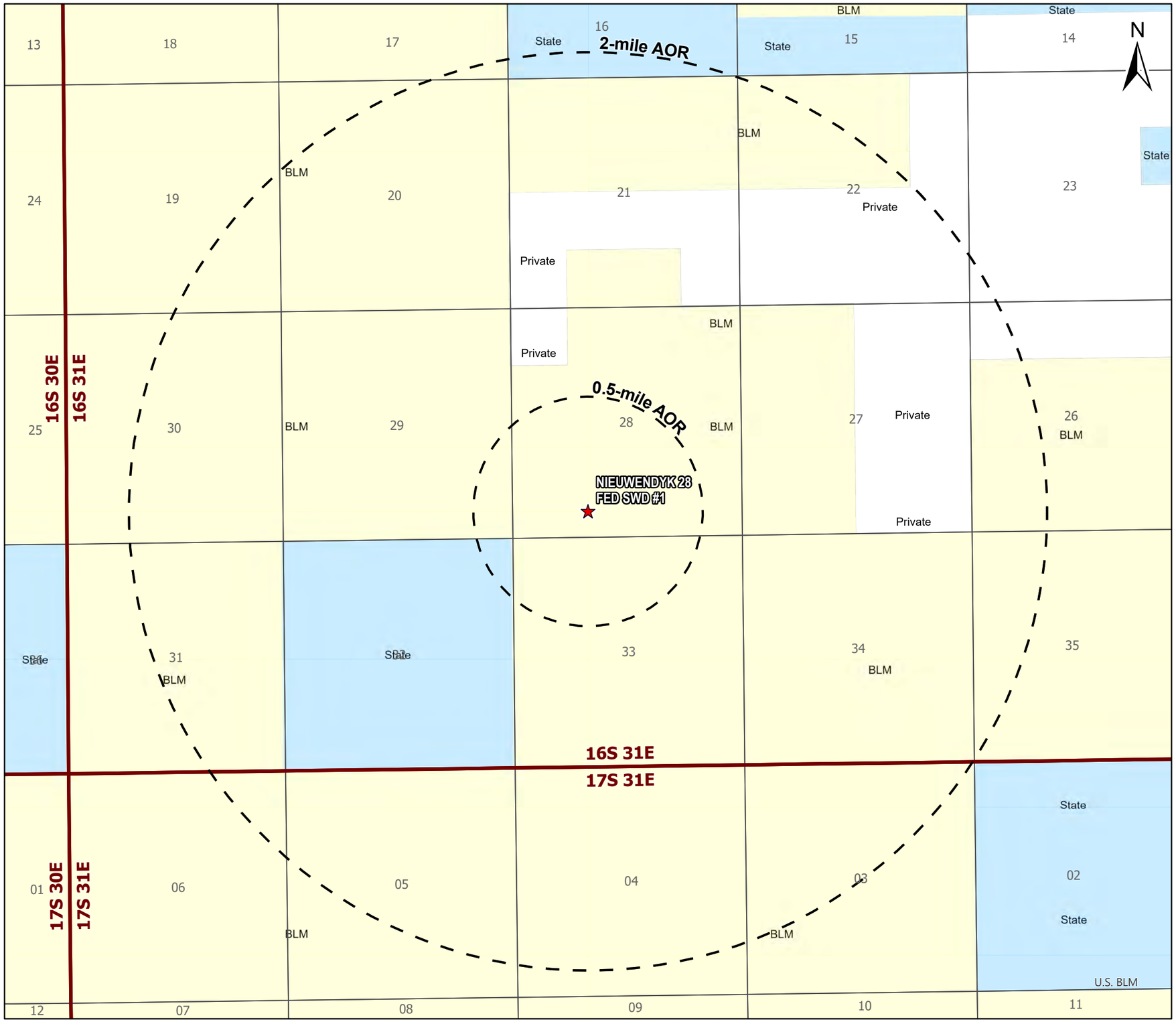
NIEUWENDYK 28 FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	July 10, 2025	Mapped by: Ben Bockelmann

Prepared for: LONGFELLOW ENERGY, LP

Prepared by: ALL CONSULTING



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

Legend

- Proposed SWD

Land Ownership

- BLM
- P
- S

2-mile Surface Ownership AOR

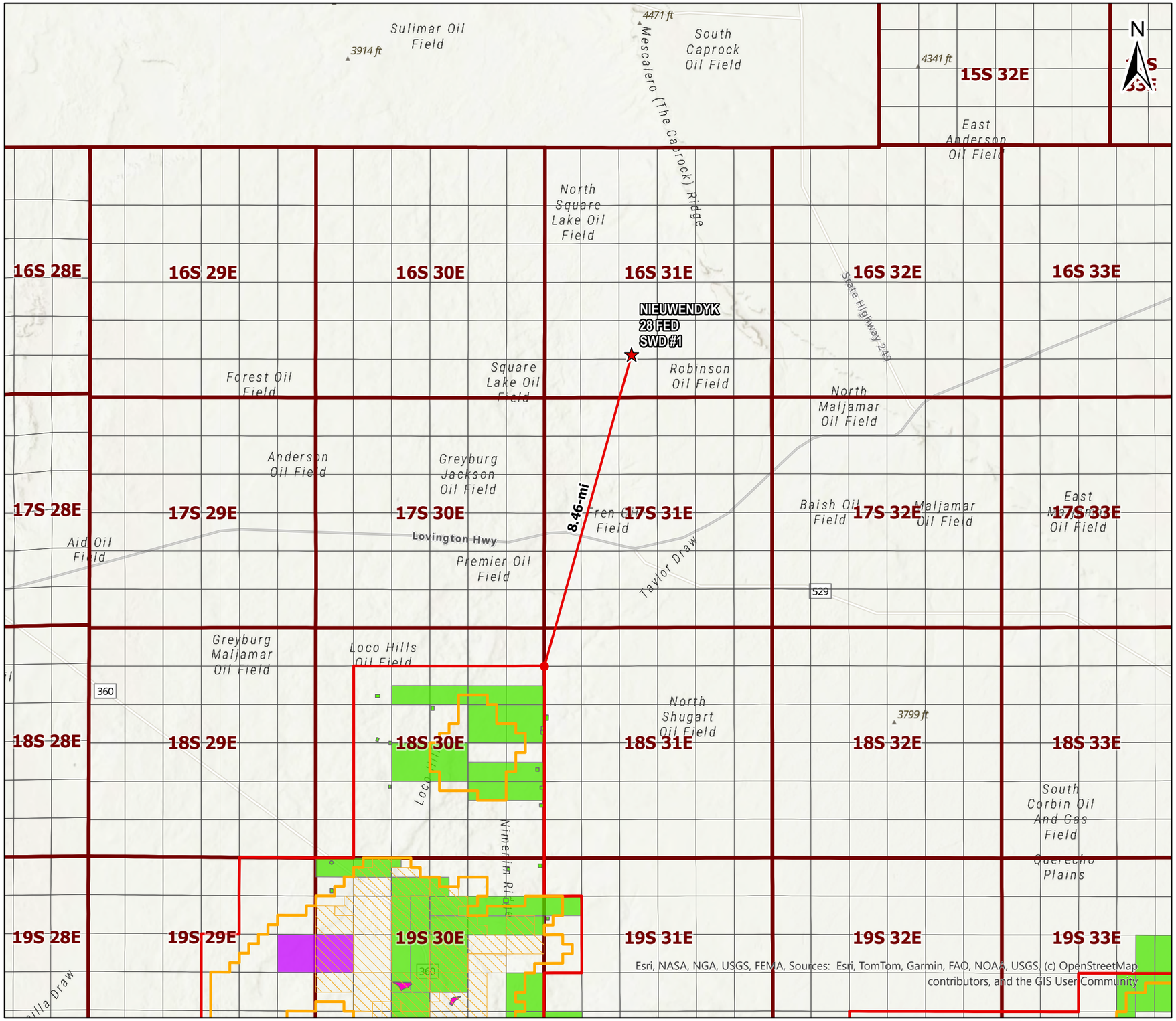
NIEUWENDYK 28 FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	July 10, 2025	Mapped by: Ben Bockelmann

Prepared for: LONGFELLOW ENERGY, LP

Prepared by: ALL CONSULTING



Source Info: BLM CFO Potash (https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html)

Legend

- Proposed SWD
- SOPA 1986
- Known Potash Leasing Area
- Intrepid and Mosaic Potash Leases

Drill Islands - 2025-04-04

Status, Depth Buffer

- Approved, Half Mile
- Approved, Quarter Mile

Development Areas- 2025-04-04

Status

- Approved
- Pending

Potash Lease AOR

NIEUWENDYK 28 FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	July 10, 2025	Mapped by: Ben Bockelmann

Prepared for: LONGFELLOW ENERGY, LP

Prepared by: ALL CONSULTING

Attachment 3
Source Water Analyses

NIEUWENDYK 28 FED SWD #1 - Source Water Analysis (Grayburg, San Andres, Yeso Group, Cisco, Abo, and Wolfcamp 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)
MCA UNIT #369	3002529853	32.8090172	-103.7930069	GRAYBURG/SAN ANDRES	197826	82636	2316.75	0.1123	0.05615	665.939	485.136	51.658		129586	0	2329.1	4087.72	67.38
GRACE MITCHELL B FEDERAL #005	3002500470	32.8654442	-103.7822952	GRAYBURG/SAN ANDRES	134760	72565	2520	0		3780				125000	0	460	3000	0
MCA UNIT #285	3002523745	32.8165665	-103.805748	GRAYBURG/SAN ANDRES	88658.6	30706	2579.14	96.824	0.07448	1601.32	471.352	59.584		53397.9	0	1370.43	4050.65	74.48
SINCLAIR PARKE #002	3001530329	32.820961	-103.9630432	PADDOCK	191874	74575	5339.04	19.193	0.3387	2398	401.924	34.999		127771	0	2575.25	3511.19	45.16
IMPERIAL STATE #002	3001531017	32.8300514	-103.9755478	PADDOCK	217098	86364	6097.4	13.656	0.2276	1906.15	864.88	91.04		147760	0	1770.73	2189.51	56.9
MCINTYRE A #011	3001529903	32.81738475	-103.9888225	PADDOCK	193039	71936.8	6733.48	16.89	0.3378	3322.83	374.958	38.284		128888	0	2685.51	3364.49	56.3
WHITE STAR FEDERAL #014	3001530931	32.8116226	-104.0915985	YESO	207695	87541.3	2979.73	5.112	0.1136	679.328	493.024	47.712		138951	0	495.296	4749.62	6.816
WHITE STAR FEDERAL #009	3001530694	32.8100891	-104.09375	YESO	194357	97686	2726.9	2.68	0.134	586.92	62.98	58.96		152244	0	1112.2	5957.64	17.42
SCHLEY FEDERAL #008	3001530307	32.8084831	-104.1002197	YESO	208172	87396.1	3103.09	3.405	0.1135	817.2	545.935	55.615		140286	0	611.765	3456.07	79.45
LEA CR STATE NCT-A #002	3002500372	32.9525452	-103.7349472	CISCO	45009		1948			435				26418		523	974	
LEA CL STATE NCT-A #001	3002500369	32.9588852	-103.7338638	CISCO	55365									31900		795	1500	
JACKSON B #023	3001504319	32.8166809	-103.9233475	ABO	47594									25000		1990	2980	
MCINTYRE A #004	3001504222	32.8173828	-103.9869232	ABO	194979	78487.4	4454.47	5.076	0.3384	1451.74	393.672	58.656		129774	0	841.488	4469.14	12.408
ELVIS #002	3002533854	32.8294792	-103.7875977	WOLFCAMP	120258	44579.4	4415.89	19.458	0.2162	817.236	307.004	100.533		78216.8	0	172.96	1368.55	9.729
HENSHAW DEEP UNIT #002	3001503918	32.9016228	-103.9233322	WOLFCAMP	69650									41500		180	1410	
HENSHAW DEEP UNIT #006	3001510226	32.9052734	-103.9362106	WOLFCAMP	37883									15280		1446	7541	

Attachment 4

Injection Formation Water Analyses

NIEUWENDYK 28 FED SWD #1 - Injection Formation Water Analysis (Cisco Canyon and Wolfcamp 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)
LEA R STATE NCT-A #001	3002500370	32.9634438	-103.7306213	CISCO	73458		6300			3412				44100		1291	2184	
LEA CL STATE NCT-A #001	3002500369	32.9588852	-103.7338638	CISCO	55365									31900		795	1500	
LEA CR STATE NCT-A #002	3002500372	32.9525452	-103.7349472	CISCO	45009		1948			435				26418		523	974	
ELVIS #002	3002533854	32.8294792	-103.7875977	WOLFCAMP	120258	44579.4	4415.89	19.458	0.2162	817.236	307.004	100.533		78216.8	0	172.96	1368.55	9.729
SQUARE LAKE DEEP UNI #001	3001503979	32.87992811	-103.9796689	WOLFCAMP	13711									6990		162	1500	
HENSHAW DEEP UNIT #006	3001510226	32.9052734	-103.9362106	WOLFCAMP	37883									15280		1446	7541	
HENSHAW DEEP UNIT #002	3001503918	32.9016228	-103.9233322	WOLFCAMP	69650									41500		180	1410	

Attachment 5

Reservoir Characterization

Reservoir Characterization at the Nieuwendyk 28 SWD #1

1. Injection Formation and Confinement

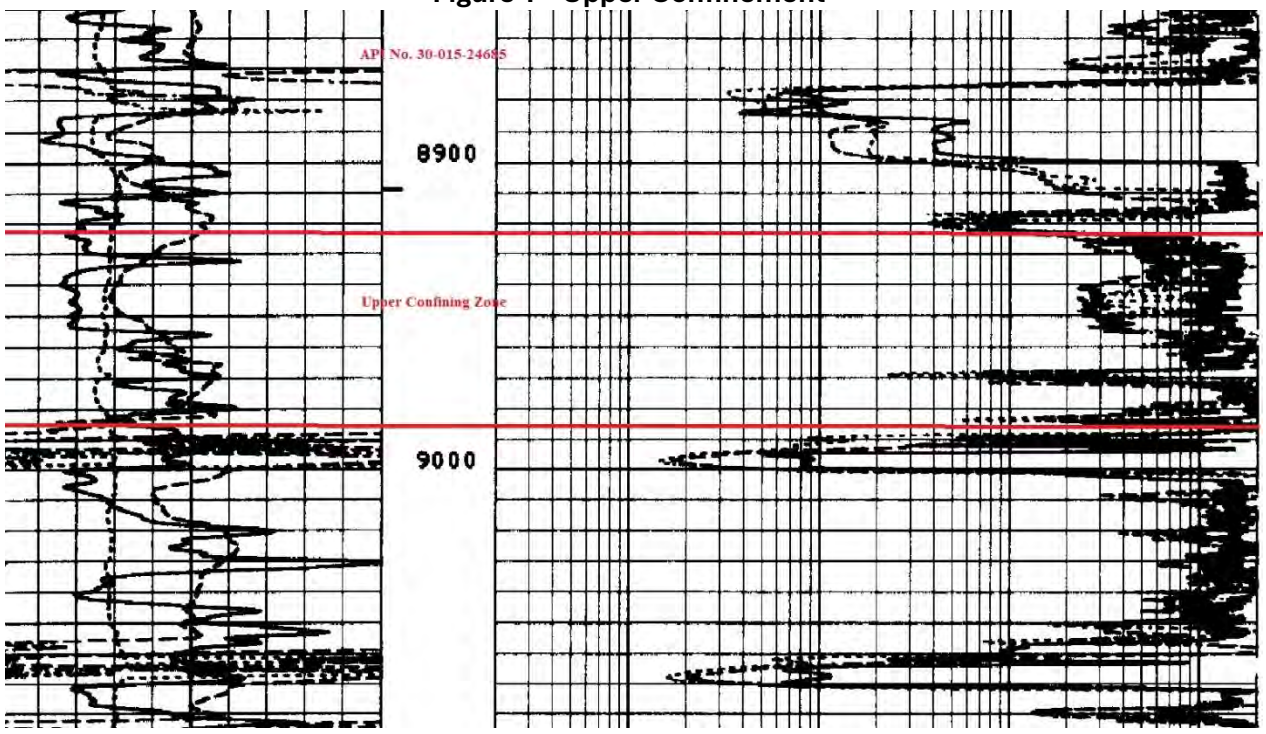
a. Injection Formation

The proposed injection interval includes the Lower Wolfcamp-Cisco-Canyon formations from 9,000' – 10,500'. 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 65 feet of tight shales within Wolfcamp Formation, which will prevent the upward migration of fluids and act as the upper confining layer.

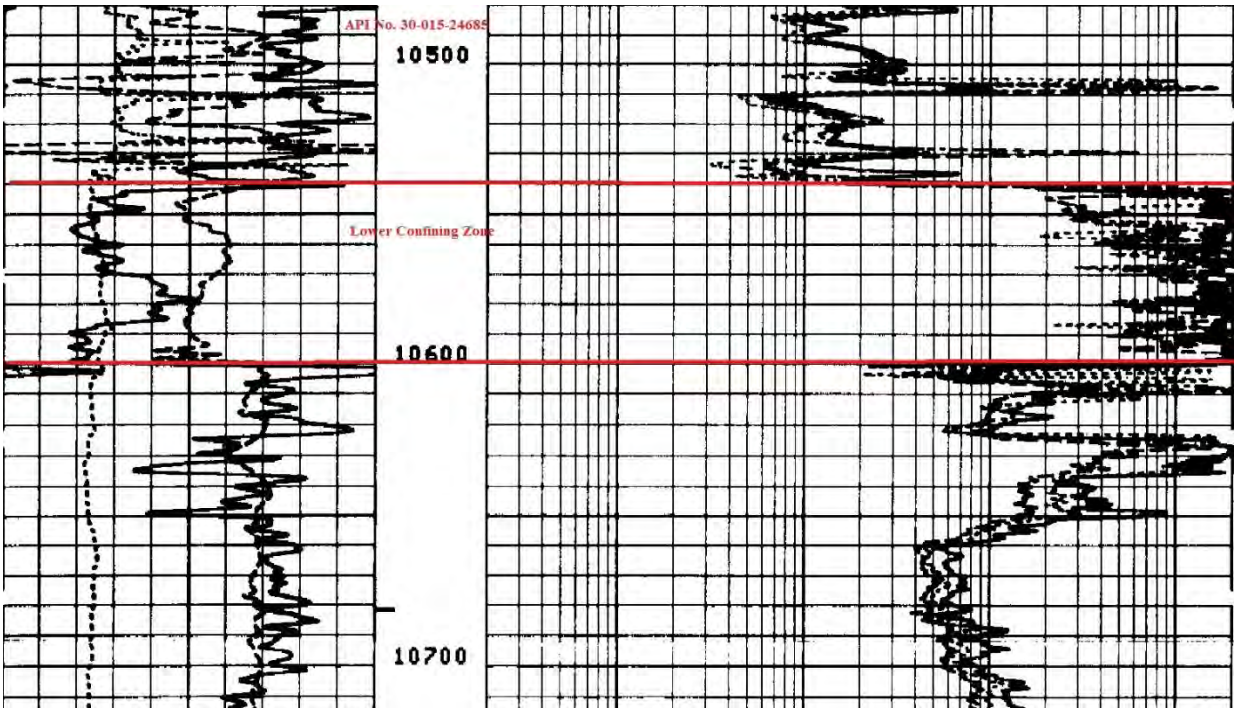
Figure 1 – Upper Confinement



c. Lower Confinement

Nearby open hole geophysical well logs indicate the proposed Lower Wolfcamp-Cisco-Canyon injection interval is underlain by approximately 60 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 Nieuwendyk 28 SWD #1 does not show any historic or current hydrocarbon production from the Wolfcamp or 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 Nieuwendyk 28 SWD #1 does not show any historic or current commercial water supply sources from the Wolfcamp or Cisco-Canyon formations.

c. Enhanced Oil Recovery

A review of all wells in the NMOCD database within a 2-mile radius of the Nieuwendyk 28 SWD #1 does not show any historic or current enhanced oil recovery operations utilizing the overlying Wolfcamp Formation or in the Cisco-Canyon formations.

Attachment 6

Induced Seismicity Assessment Letter

ALL CONSULTING
GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY
ENGINEERING · ENVIRONMENTAL

September 16, 2025

PN 1921.T2.00

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

Subject: **Longfellow Energy, LP**
Nieuwendyk 28 SWD #1 - Seismic Potential Letter

Dear Mr. Goetze,

At the request of Longfellow Energy, LP (Longfellow), ALL Consulting, LLC (ALL) has assessed the potential injection-induced seismicity risks in the vicinity of Longfellow's Nieuwendyk 28 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 Nieuwendyk 28 SWD #1 to contribute to seismic activity in the area.

Geologic Evaluation

The Nieuwendyk 28 SWD #1 is requesting a permit to inject into the Lower Wolfcamp Formation (Wolfcamp) and Cisco and Canyon formations (Cisco-Canyon) at a depth of 9,000' – 10,540' feet below ground surface (bgs). The Permian Wolfcamp and Pennsylvanian Cisco-Canyon consist of interbedded carbonate rocks including shales, dolomites, and limestones. The proposed injection interval is overlain approximately 65 feet of tight shales within the Wolfcamp which will act as the upper confining layer (see **Reservoir Characterization Section of C-108**). Additionally, the proposed injection interval is underlain by approximately 60 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

Longfellow Energy, LP
Nieuwendyk 28 SWD #1 Seismic Potential Letter
September 16, 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 M1.08 that occurred on December 13, 2024, and was located approximately 0.96 miles northwest of the Nieuwendyk 28 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 Nieuwendyk 28 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 2.21 miles west of the Nieuwendyk 28 SWD #1 (see **Attachment 1**). This identified fault is within the Precambrian basement, which is approximately 4,460' feet below the proposed injection interval.[3] **Six Precambrian basement faults were identified within 10 miles of the Nieuwendyk 28 SWD #1**. A map of the seismic events and faults within 10 miles of the Nieuwendyk 28 SWD #1 is included as **Attachment 1.**

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

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

Seismic Potential Evaluation

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

---

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

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

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

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 M1.08 which occurred on December 13, 2024, at 3.99 km depth, or approximately 10,500 feet below the proposed injection interval. Standard deviation of this event location is approximately 2.75 km, indicating the event location is poorly constrained.

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 15,000 feet bgs at the Nieuwendyk 28 SWD #1, or approximately 4,460 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 Nieuwendyk 28 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 35.4 miles southwest of the Nieuwendyk 28 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 Nieuwendyk 28 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 Nieuwendyk 28 SWD #1 to cause injection-induced seismicity is expected to be minimal, at best. This conclusion assumes the Nieuwendyk 28 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 Nieuwendyk 28 SWD #1.

Sincerely,
ALL Consulting

Longfellow Energy, LP
Nieuwendyk 28 SWD #1 Seismic Potential Letter
September 16, 2025

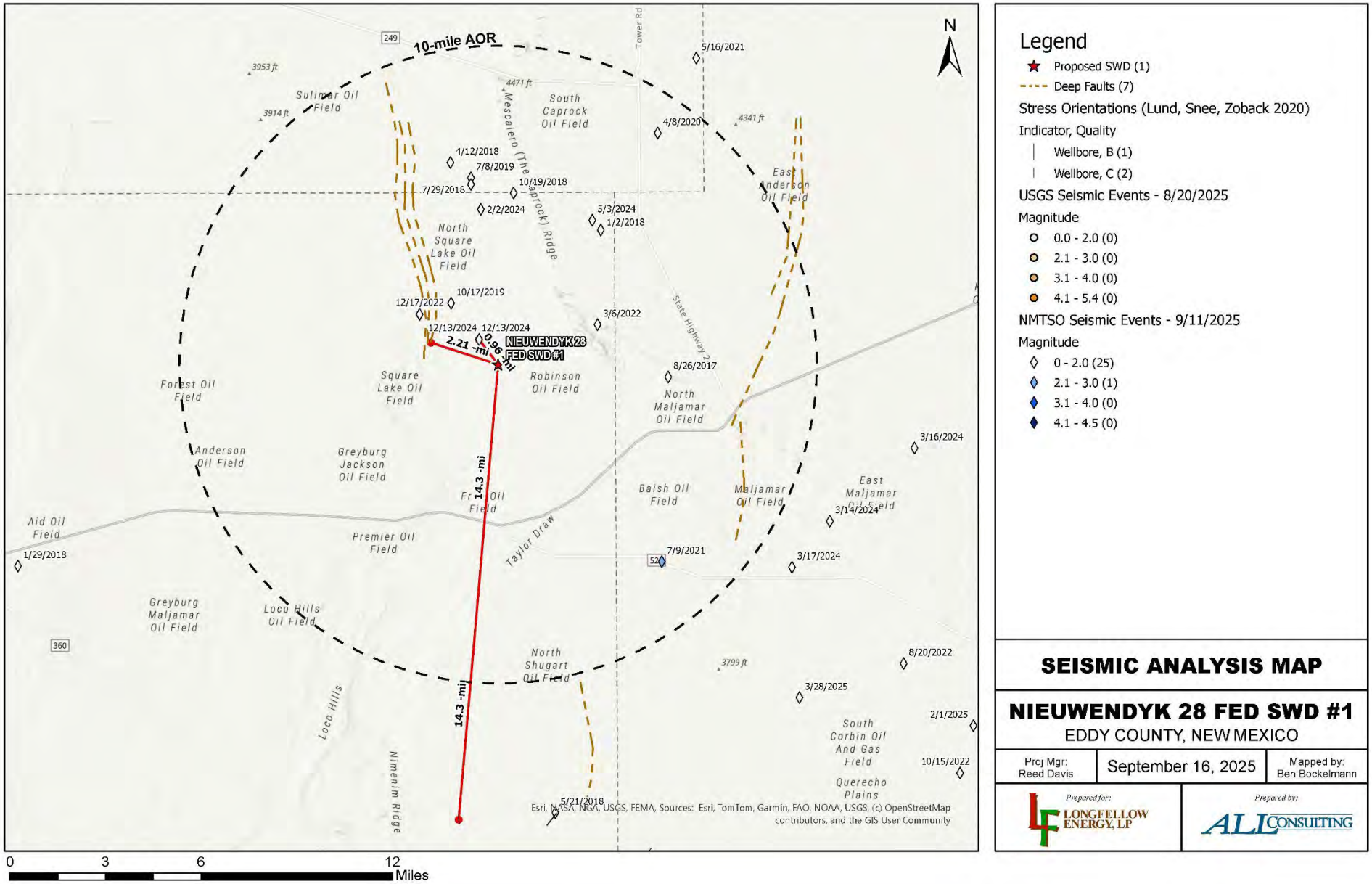
Reed Davis
Geophysicist

Thomas Tomastik
Chief Geologist

Attachment 1
Seismic Event Map

Longfellow Energy, LP
Nieuwendyk 28 SWD #1 Seismic Potential Letter
September 16, 2025

Nieuwendyk 28 SWD #1 Nearby Seismic Events and Faults



Legend

- Proposed SWD (1)
- Deep Faults (7)

Stress Orientations (Lund, Snee, Zoback 2020)

Indicator, Quality

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

USGS Seismic Events - 8/20/2025

Magnitude

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

NMTSO Seismic Events - 9/11/2025

Magnitude

- 0 - 2.0 (25)
- 2.1 - 3.0 (1)
- 3.1 - 4.0 (0)
- 4.1 - 4.5 (0)

SEISMIC ANALYSIS MAP

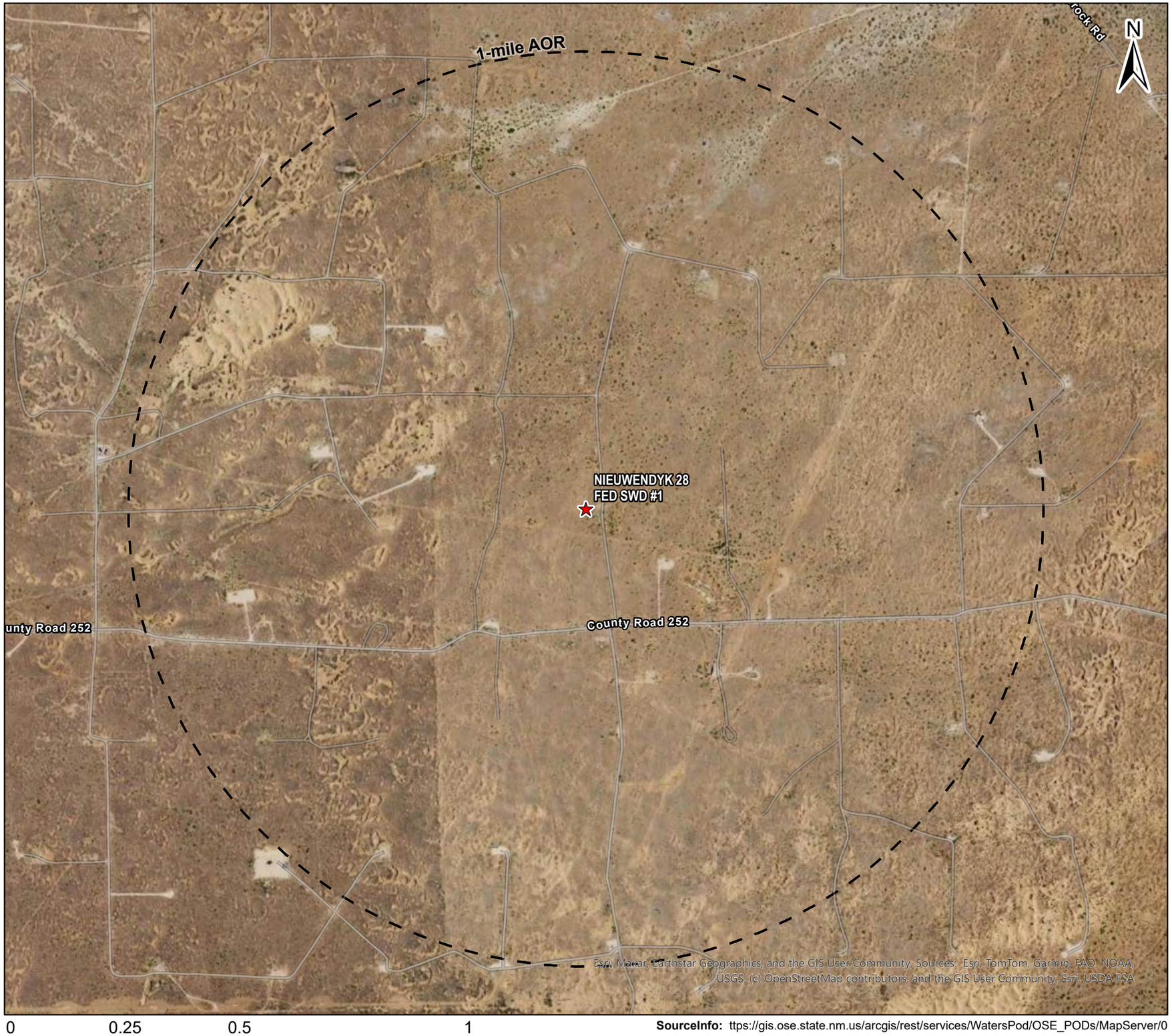
NIEUWENDYK 28 FED SWD #1
EDDY COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	September 16, 2025	Mapped by: Ben Bockelmann

Prepared for: LONGFELLOW ENERGY, LP
Prepared by: ALL CONSULTING

Attachment 7

Water Well Map and Well Data



SourceInfo: ttps://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 (0)
- Changed Location of Well (0)
- Inactive (0)
- Capped (0)
- Plugged (0)
- Unknown (0)

1-mile Water Well AOR

NIEUWENDYK 28 FED SWD #1

EDDY COUNTY, NEW MEXICO

Proj Mgr: Reed Davis	July 10, 2025	Mapped by: Ben Bockelmann

Prepared for: LONGFELLOW ENERGY, LP

Prepared by: ALL CONSULTING

Nieuwendyk 28 SWD #1 - Water Well Sampling Rationale					
Water Wells	**Owner**	**Available Contact Information**	**Use**	**Sampling Required**	**Notes**
Note: There are no water wells within 1-mile of the proposed Nieuwendyk 28 SWD #1.					

Attachment 8

No Hydrologic Connection Statement

RE: Longfellow Energy, LP – Nieuwendyk 28 Fed SWD #1 application, Eddy County, New Mexico

ALL Consulting LLC (ALL) has performed a thorough hydrologic investigation related to the two saltwater disposal wells (SWD) listed above. The investigation was conducted to determine if there were any existing or potential connections between the proposed injection intervals in the Cisco Formation 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. Based on ALL's assessment and analysis there is containment through multiple confining zones above the Lower Wolfcamp-Cisco-Canyon Formations and the USDW and over 8,475 feet of vertical separation between the base of the USDW and the top of the injection interval. Additionally, there is no evidence of extensive faulting that would allow for communication between the USDW and the Lower Wolfcamp-Cisco-Canyon Formations.

Tom Tomastik July 11, 2025

Tom Tomastik Date

Chief Geologist and Regulatory Specialist

ALL Consulting LLC

Attachment 9

Public Notice Affidavit and Notice of Application Confirmation

NIEUWENDYK 28 FED SWD #1 - NOTICE OF APPLICATION RECIPIENTS						
LEASE ID	**ENTITY**	**ADDRESS**	**CITY**	**STATE**	**ZIP**	**INTEREST RELATIONSHIP**
N/A	NEW MEXICO OIL CONSERVATION DISTRICT 1	1625 N FRENCH DRIVE	HOBBS	NM	88220	NMOCD DISTRICT OFFICE
N/A	NEW MEXICO BUREAU OF LAND MANAGEMENT	620 E GREENE ST.	CARLSBAD	NM	88220	SURFACE AND MINERAL OWNER
NMLC 0063368	BOYLE JOHN W R TRUST	PO BOX 830308	DALLAS	TX	75283-0308	BLM LESSEE
NMLC 0060548	CHASE OIL CORP	11352 LOVINGTON HWY	ARTESIA	NM	88210-9634	BLM LESSEE
NMLC 0063105	DALE RESLER	801 W TEXAS	ARTESIA	NM	88210	BLM LESSEE
NMNM 071796	LLJ VENTURES LLC	PO BOX 3188	ROSWELL	NM	88202-3188	BLM LESSEE
VC12420000	LONGFELLOW LH, LLC	8155 PRESTON ROAD	DALLAS	TX	75225	NMSLO LESSEE
NMNM 101360X	REMNANT OIL OPERATING LLC	6 DESTA DR STE 5100	MIDLAND	TX	79705-5520	BLM UNIT OPERATOR
NMLC 0063368	TAYLOE/TAYLOR JR TRUST	PO BOX 830308	DALLAS	TX	75283-0308	BLM LESSEE
NMLC 0063105	VILAS P SHELDON	801 W TEXAS	ARTESIA	NM	88210	BLM LESSEE
NMNM 075501	XERIC OIL & GAS CORP	PO BOX 352	MIDLAND	TX	79702-0352	BLM LESSEE
NMLC 0056302B	XTO HOLDINGS LLC	22777 SPRINGWOODS VILLAGE PKWY	SPRING	TX	77389-1425	BLM 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 retreived from NMOCD Operator Search
(https://wwwapps.emnrd.nm.gov/OCD/OCDPermitting/Operators/Search/OperatorSearch.aspx).

APPLICATION FOR AUTHORIZATION TO INJECT

NOTICE IS HEREBY GIVEN: That **Longfellow Energy, LP, 8115 Preston Rd. Suite 800, Dallas, TX, 75225**, is requesting that the New Mexico Oil Conservation Division administratively approve the APPLICATION FOR AUTHORIZATION TO INJECT as follows:

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

WELL NAME AND LOCATION: Nieuwendyk 28 SWD #1
Located 30.5 miles east of Artesia, NM
SE ¼ SW ¼, Lot N, Section 28, Township 16S, Range 31E
600' FSL & 1,695' FWL
Eddy County, NM

NAME AND DEPTH OF DISPOSAL ZONE: Wolfcamp and Cisco-Canyon (9,000' – 10,540')
EXPECTED MAXIMUM INJECTION RATE: 10,000 Bbls/day
EXPECTED MAXIMUM INJECTION PRESSURE: 1,800 psi (surface)

Objections or requests for hearing must be filed with the New Mexico Oil Conservation Division within fifteen (15) days. Any objection or request for hearing should be mailed to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Additional information may be obtained by contacting Reed Davis at 918-382-7581.

Affidavit of Publication

No. 63610

State of New Mexico Publisher

County of Eddy:

Adrian Hedden

being duly sworn, sayes 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 18, 2025
Second Publication	
Third Publication	
Fourth Publication	
Fifth Publication	
Sixth Publication	
Seventh Publication	
Eighth Publication	

Subscribed ans sworn before me this

18th day of September 2025

LATISHA ROMINE
Notary Public, State of New Mexico
Commission No. 1076338
My Commission Expires
05-12-2027

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

APPLICATION FOR AUTHORIZATION TO INJECT

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SE ¼ SW ¼, Lot N, Section 28, Township 16S, Range 31E
600 FSL & 1,695 FWL
Eddy County, NM

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Additional information may be obtained by contacting Reed Davis at 918-382-7581.
63610-Published in Artesia Daily Press Sept.18, 2025.

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CARLSBAD, NM 88220
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Remove ×

Tracking Number:

9414811105495887327025

Copy Add to Informed Delivery (https://informeddelivery.usps.com/)

Latest Update

Your item was delivered to the front desk, reception area, or mail room at 8:23 am on September 20, 2025 in HOBBS, NM 88240.

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Delivered

Delivered, Front Desk/Reception/Mail Room

HOBBS, NM 88240
September 20, 2025, 8:23 am

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

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/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 511270

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 511270
	Action Type: [C-108] Fluid Injection Well (C-108)

CONDITIONS

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