

State of New Mexico  
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham  
Governor

Melanie Kenderdine  
Cabinet Secretary

Erin Taylor  
Deputy Secretary

Gerasimos "Gerry" Razatos  
Division Director (Acting)  
Oil Conservation Division



Jaclyn M. McLean  
[jmclean@hardymclean.com](mailto:jmclean@hardymclean.com)

**ADMINISTRATIVE NON-STANDARD LOCATION**

**Administrative Order NSL – 8953**

**Novo Oil & Gas Northern Delaware [OGRID 372920]  
Astrodog Fee 810 Well No. 222H  
API No. 30-015-49186**

Reference is made to your application received on April 9<sup>th</sup>, 2025.

**Proposed Location**

	<b>Footages</b>	<b>Unit/Lot</b>	<b>Sec.</b>	<b>Twsp</b>	<b>Range</b>	<b>County</b>
Surface	1786 FNL & 1529 FWL	F	08	23S	29E	Eddy
First Take Point	2395 FNL & 2278 FEL	G	08	23S	29E	Eddy
Last Take Point	2193 FNL & 2329 FWL	F	10	23S	29E	Eddy
Terminus	2181 FNL & 2482 FWL	F	10	23S	29E	Eddy

**Proposed Horizontal Units**

<b>Description</b>	<b>Acres</b>	<b>Pool</b>	<b>Pool Code</b>
NE/4 Section 08	640	Purple Sage; Wolfcamp	98220
N/2 Section 09			
NW/4 Section 10			

You have requested to complete this horizontal well as a **gas** well described above in the referenced pool or formation. This well is governed by special rules R-14262, for the Purple Sage; Wolfcamp (Gas) Pool and governs wells to be located at least 330 feet from the unit outer boundary of a spacing unit and no closer than 10 feet to any quarter – quarter section line. The completed intervals

Administrative Order NSL – 8953  
Novo Oil & Gas Northern Delaware, LLC  
Page 2 of 2

of horizontal wells are to be located no closer than 330 feet to the exterior boundary of a standard 320 - acre **gas** spacing unit.

The request to deviate from an orthodox location has met all requirements of 19.15.16.15 (C)(5)(a) NMAC. It is understood that you are seeking this exception in order to create a non-standard location, comprised of First and Last Take Points referenced above within the described Horizontal Spacing Unit.

This well's completed interval is as close as 245 feet to the southern edge and 311 feet to the eastern edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 08, encroachment to the SE/4  
Section 09, encroachment to the S/2  
Section 10, encroachment to the NE/4

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in 19.15.2.7(A)(8) NMAC, in all adjoining units towards which the proposed location encroaches.

The Division understands you are seeking this unorthodox location in order to maximize the wellbore's contact to develop resources within the unit, to reduce stranded resources, to accelerate recovery time and improving overall productivity of the well. Thus, preventing waste of natural resources and protecting the correlative rights within the Wolfcamp formation underlying the NE/4 of Section 08, the N/2 of Section 09 and the NW/4 of Section 10.

Your application has been filed under 19.15.16.15(C)(6) NMAC, 19.15.15.13 NMAC and 19.15.4.12 (A)(2) NMAC.

Per 19.15.15.13 (B) NMAC, **Division approves this unorthodox location.**

Reference this NSL order number on the As Drilled C-102 submitted with the Authorization to Transport, to place this well into production.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as the Division deems necessary.



**GERASIMOS RAZATOS**  
**DIRECTOR (ACTING)**  
GR/lrl

**Date:** 6-3-2025

ID NO. 450541

NSL - 8953

Revised March 23, 2017

RECEIVED: <b>04/09/25</b>	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:** Novo Oil & Gas Northern Delaware, LLC **OGRID Number:** 372920  
**Well Name:** Astrodog Fee 0810 222H **API:** 30-015-49186  
**Pool:** Purple Sage; Wolfcamp (Gas) **Pool Code:** 98220

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

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

A. Location – Spacing Unit – Simultaneous Dedication

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

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

[ I ] Commingling – Storage – Measurement

☐ DHC    ☐ CTB    ☐ PLC    ☐ PC    ☐ OLS    ☐ OLM

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

☐ WFX    ☐ PMX    ☐ SWD    ☐ IPI    ☐ EOR    ☐ PPR
**2) NOTIFICATION REQUIRED TO:** Check those which apply.

- A. ☒ Offset operators or lease holders  
 B. ☐ Royalty, overriding royalty owners, revenue owners  
 C. ☐ Application requires published notice  
 D. ☐ Notification and/or concurrent approval by SLO  
 E. ☐ Notification and/or concurrent approval by BLM  
 F. ☐ Surface owner  
 G. ☐ For all of the above, proof of notification or publication is attached, and/or,  
 H. ☐ No notice required

**FOR OCD ONLY**

- ☐ Notice Complete  
☐ Application  
 Content  
 Complete

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

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

Jaclyn M. McLean

Print or Type Name

4/9/2025

Date

505-230-4410

Phone Number

Jaclyn M. McLean

Signature

Digitally signed by Jaclyn M. McLean  
 Date: 2025.04.09 15:12:57 -06'00'

jmclean@hardymclean.com

e-mail Address



April 9, 2025

**VIA ONLINE FILING**

Gerasimos Razatos  
Acting Division Director  
Oil Conservation Division  
Energy, Minerals and Natural Resources Department  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505

**Re: Novo Oil & Gas Northern Delaware, LLC  
Request for Administrative Approval of Unorthodox Well Location**

Astrodog Fee 0810 222H (API #30-015-49186)  
NE/4 of Section 8, N/2 of Section 9, and the NW/4 of Section 10, Township 23 South,  
Range 29 East, Eddy County, New Mexico  
Purple Sage; Wolfcamp (Gas) Pool (Code 98220)

Dear Mr. Razatos,

In accordance with Division Rules 19.15.16.15(C)(6) and 19.15.15.13 NMAC, Novo Oil & Gas Northern Delaware, LLC (OGRID No. 372920) ("Novo"), seeks administrative approval of an unorthodox well location for the Astrodog Fee 0810 222H well in a 640-acre, standard horizontal spacing unit, comprised of the NE/4 of Section 8, N/2 of Section 9, and the NW/4 of Section 10, Township 23 South, Range 29 East, Eddy County, New Mexico..

The location for the **Astrodog Fee 0810 222H** well is as follows:

- Surface Hole Location: 1,786' FNL and 1,529' FWL of Section 8
- First Take Point: 2,395' FNL and 2,278' FEL of Section 8
- Last Take Point: 2,193' FNL and 2,329' FWL of Section 10
- Bottom Hole Location: 2,181' FNL and 2,482' FWL of Section 10

The completed interval of the well will be unorthodox because it is in the Purple Sage; Wolfcamp (Gas) pool (Code 98220) and is located less than 330' from the southwestern boundary of the offsetting 320-acre horizontal spacing unit. As explained in the engineering statement,

---

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

HardyMcClean.com

**Writer:**  
Jaclyn M. McLean  
Managing Partner  
jmclean@hardymcClean.com

Hardy McLean LLC  
April 9, 2025

Page 2

included as **Exhibit A**, approval of the unorthodox, completed interval is necessary to allow Novo to ensure optimal spacing of the wells, reduce stranded resources, and improve overall productivity of the wells, which will prevent waste and protect correlative rights.

**Exhibit B** is a Form C-102 showing the location of the Astrodog Fee 0810 222H well in relation to the offset tracts.

**Exhibit C** is a plat for Sections 8, 9 and 10 of Township 23 South, Range 29 East, that shows the Astrodog Fee 0810 222H well in relation to the adjoining tracts/proposed spacing units.

**Exhibit D** is a spreadsheet that identifies all affected persons who were sent a copy of this application and attachments by certified mail advising that any objections must be filed in writing with the Division within 20 days from the date the Division receives the application.

Thank you for your attention to this matter. Please let me know if you require additional information.

Very truly yours,

HARDY McLEAN LLC

/s/ Jaclyn M. McLean  
Jaclyn M. McLean

ATTORNEYS FOR NOVO OIL & GAS NORTHERN  
DELAWARE, LLC



300 N. MARIENFELD STREET, SUITE 1000  
MIDLAND, TX 79701

OFFICE 432.695.4222  
FAX 432.695.4063

4/7/2025

**Re: ASTRODOG FEE 0810 222H**

**SHL:** 1,529' FWL, 1,786' FNL of Section 8, T23S-R29E

**FTP:** 2,278' FEL, 2,395' FNL of Section 8, T23S-R29E

**LTP:** 2,329' FWL, 2,193' FNL of Section 10, T23S-R29E

**BHL:** 2,482' FWL, 2,181' FNL of Section 10, T23S-R29E  
Eddy County, New Mexico

To Whom It May Concern,

Approval of a non-standard location will maximize the wellbore's contact to undeveloped resource in this unit, reducing stranded resources, accelerating recovery time, and improving overall productivity. The request for a non-standard location is therefore in the best interests of the mineral owners as well as the operator.

Approval of the unorthodox, completed interval is necessary to allow Permian to maximize lateral length, properly place stimulation energy, and optimize pressure drawdown, which will create cost efficiencies, prevent waste, and protect correlative rights.

To minimize unnecessary burden, prevent waste, and protect correlative rights, Permian respectfully requests approval of this non-standard location for the ASTRODOG FEE 0810 222H to allow the completed interval to be less than 330 feet from the southern boundary of the existing 320-acre horizontal spacing unit.

Sincerely,

A handwritten signature in black ink that reads "Dustin Van Brunt".

**Dustin Van Brunt**

Sr. Staff Reservoir Engineer

Permian Resources Operating, LLC

**EXHIBIT A**

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

## WELL LOCATION INFORMATION

API Number <b>30-015-49186</b>	Pool Code <b>98220</b>	Pool Name <b>Purple Sage; Wolfcamp (Gas)</b>
Property Code <b>331896</b>	Property Name <b>ASTRODOG FEE 0810</b>	Well Number <b>222H</b>
OGRID No. <b>372920</b>	Operator Name <b>NOVO OIL &amp; GAS NORTHERN DELAWARE, LLC</b>	Ground Level Elevation <b>2980.1</b>
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal

## Surface Location

UL F	Section 8	Township 23 S	Range 29 E	Lot	Ft. from N/S 1786 NORTH	Ft. from E/W 1529 WEST	Latitude 32.3220928°N	Longitude 104.0106611°W	County EDDY
---------	--------------	------------------	---------------	-----	----------------------------	---------------------------	--------------------------	----------------------------	----------------

## Bottom Hole Location

UL F	Section 10	Township 23 S	Range 29 E	Lot	Ft. from N/S 2181 NORTH	Ft. from E/W 2482 WEST	Latitude 32.3210680°N	Longitude 103.9731883°W	County EDDY
---------	---------------	------------------	---------------	-----	----------------------------	---------------------------	--------------------------	----------------------------	----------------

Dedicated Acres <b>640</b>	Infill or Defining Well <b>Infill</b>	Defining Well API <b>30-015-44191</b>	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidation Code <b>F</b>
Order Numbers. <b>R-21252</b>			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

## Kick Off Point (KOP)

UL F	Section 8	Township 23 S	Range 29 E	Lot	Ft. from N/S 2436 NORTH	Ft. from E/W 2609 WEST	Latitude 32.3203430°N	Longitude 104.0071434°W	County EDDY
---------	--------------	------------------	---------------	-----	----------------------------	---------------------------	--------------------------	----------------------------	----------------

## First Take Point (FTP)

UL G	Section 8	Township 23 S	Range 29 E	Lot	Ft. from N/S 2395 NORTH	Ft. from E/W 2278 EAST	Latitude 32.3204634°N	Longitude 104.0057615°W	County EDDY
---------	--------------	------------------	---------------	-----	----------------------------	---------------------------	--------------------------	----------------------------	----------------

## Last Take Point (LTP)

UL F	Section 10	Township 23 S	Range 29 E	Lot	Ft. from N/S 2193 NORTH	Ft. from E/W 2329 WEST	Latitude 32.3210414°N	Longitude 103.9736848°W	County EDDY
---------	---------------	------------------	---------------	-----	----------------------------	---------------------------	--------------------------	----------------------------	----------------

Unitized Area or Area of Uniform Interest <b>No</b>	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: <b>3006.6</b>
--	--	--

## OPERATOR CERTIFICATIONS

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 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.

Jessica Dooling 2/12/2025  
Signature Date

Jessica Dooling

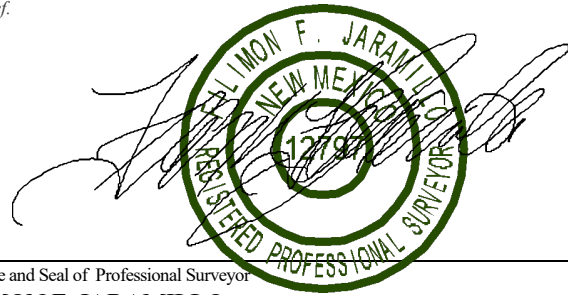
Printed Name

Jessica.Dooling@permianres.com

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

Certificate Number

PLS 12797

Date of Survey

FEBRUARY 3, 2025

SURVEY NO. 9133A

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.



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.

**ASTRODOG FEE 0810 222H**

EL. = 2980.1

GEODETTIC COORDINATES	KICK OFF POINT	FIRST TAKE POINT	LAST TAKE POINT	BOTTOM OF HOLE
NAD 27 NMSP EAST	NAD 27 NMSP EAST	NAD 27 NMSP EAST	NAD 27 NMSP EAST	NAD 27 NMSP EAST
SURFACE LOCATION	2436' FNL, 2609' FWL	2395' FNL, 2278' FEL	2193' FNL, 2329' FWL	2181' FNL, 2482' FWL
N.= 480999.93	N.= 480366.69	N.= 480411.76	N.= 480653.77	N.= 480663.97
E.= 599828.19	E.= 600916.73	E.= 601343.45	E.= 611251.46	E.= 611404.79
LAT. = 32.3219712°N	LAT. = 32.3202214°N	LAT. = 32.3203417°N	LAT. = 32.3209195°N	LAT. = 32.3209461°N
LONG. = 104.0101678°W	LONG. = 104.0066503°W	LONG. = 104.0052685°W	LONG. = 103.9731925°W	LONG. = 103.9726961°W

GEODETTIC COORDINATES	KICK OFF POINT	FIRST TAKE POINT	LAST TAKE POINT	BOTTOM OF HOLE
NAD 83 NMSP EAST	NAD 83 NMSP EAST	NAD 83 NMSP EAST	NAD 83 NMSP EAST	NAD 83 NMSP EAST
SURFACE LOCATION	2436' FNL, 2609' FWL	2395' FNL, 2278' FEL	2193' FNL, 2329' FWL	2181' FNL, 2482' FWL
N.= 481059.64	N.= 480426.40	N.= 480471.48	N.= 480713.52	N.= 480723.71
E.= 641011.02	E.= 642099.59	E.= 642526.32	E.= 652434.36	E.= 652587.70
LAT. = 32.3220928°N	LAT. = 32.3203430°N	LAT. = 32.3204634°N	LAT. = 32.3210414°N	LAT. = 32.3210680°N
LONG. = 104.0106611°W	LONG. = 104.0071434°W	LONG. = 104.0057615°W	LONG. = 103.9736848°W	LONG. = 103.9731883°W

## CORNER COORDINATES TABLE

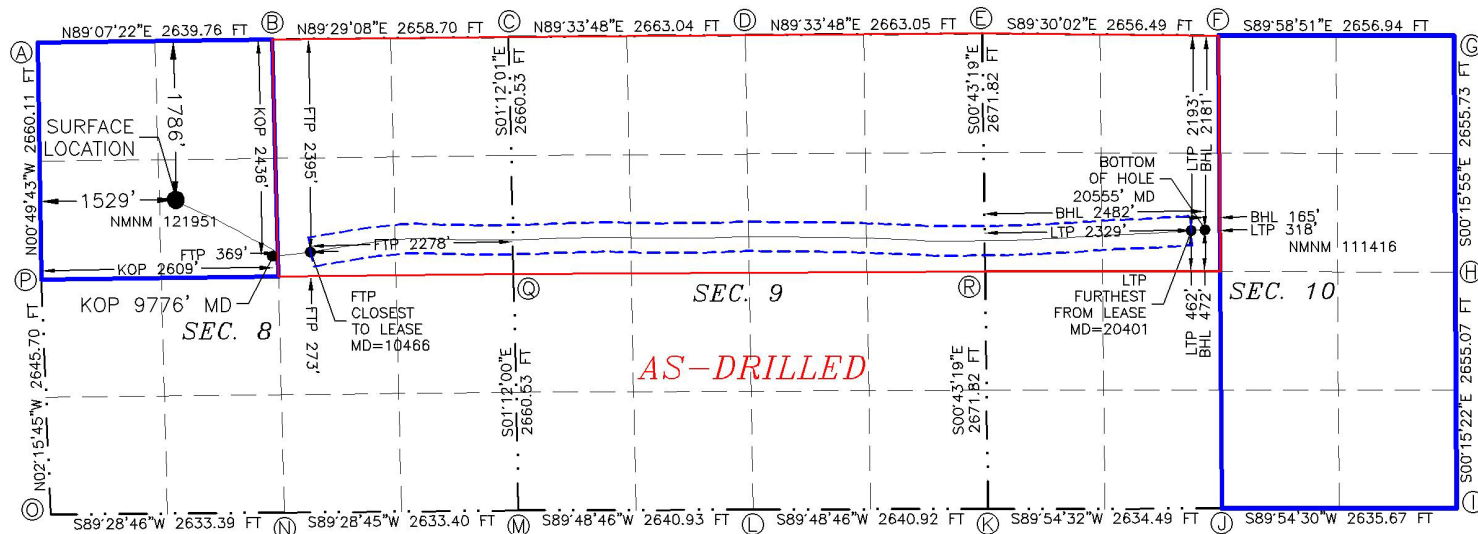
NAD 27 NMSP EAST

A - N.= 482761.92	E.= 598273.76
B - N.= 482802.29	E.= 600912.58
C - N.= 482826.14	E.= 603570.56
D - N.= 482846.42	E.= 606232.93
E - N.= 482866.71	E.= 608895.31
F - N.= 482843.55	E.= 611551.11
G - N.= 482842.66	E.= 614207.45
H - N.= 480187.61	E.= 614219.66
I - N.= 477533.21	E.= 614231.45
J - N.= 477528.99	E.= 611596.38
K - N.= 477524.80	E.= 608962.48
L - N.= 477516.18	E.= 606322.16
M - N.= 477507.55	E.= 603681.83
N - N.= 477483.64	E.= 601049.15
O - N.= 480187.61	E.= 614219.66
P - N.= 480102.74	E.= 598312.15
Q - N.= 480166.84	E.= 603626.20
R - N.= 480195.75	E.= 608928.89

## CORNER COORDINATES TABLE

NAD 83 NMSP EAST

A - N.= 482821.66	E.= 639456.52
B - N.= 482862.06	E.= 642095.38
C - N.= 482885.93	E.= 644753.39
D - N.= 482906.22	E.= 647415.76
E - N.= 482926.51	E.= 650078.14
F - N.= 482903.35	E.= 652733.95
G - N.= 482902.46	E.= 655390.29
H - N.= 480247.35	E.= 655402.59
I - N.= 477592.89	E.= 655414.45
J - N.= 477588.67	E.= 652779.37
K - N.= 477584.48	E.= 650145.47
L - N.= 477575.85	E.= 647505.14
M - N.= 477567.22	E.= 644864.81
N - N.= 477543.29	E.= 642232.10
O - N.= 477519.37	E.= 639599.40
P - N.= 480162.41	E.= 639494.98
Q - N.= 480226.58	E.= 644809.10
R - N.= 480255.49	E.= 650111.81







Astrodog Fee 0810 222H Mailing List						
Date Mailed	Notice Party	Address	City	State	Zip	Tracking Number
4/9/2025	Northern Oil & Gas	4350 Baker Road, Suite 400	Minnetonka	MN	55343	9414836208551280000000

EXHIBIT D

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 450541

CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 450541
	Action Type: [UF-NSL] Non-Standard Location (NSL)

CONDITIONS

Created By	Condition	Condition Date
llowe	None	4/16/2025