

C-104 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
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REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Section 1 - Operator and Well Information

Submittal Type: ☐ Test Allowable (C-104RT) ☒ New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name: NOVO OIL & GAS NORTHERN DELAWARE, LLC	OGRID: 372920
Property Name and Well Number: CASSIUS FED COM 114H	Property Code: 336002
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-0 15-49240
Pool Name: LAGUNA SALADO; BONE SPRING	Pool Code: 96721

Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	22	23 S	29 E		765' FNL	1,362' FEL	32.295722°	-103.968437°	EDDY

Section 3 – Completion Information

Producing Method	Ready Date	Perforations MD	Perforations TVD
Flowing	10/25/2024	FTP: 8,350 LTP: 18,653	FTP: 7,842 LTP: 7,823

Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW):	Communitization Agreement ☒ Yes ☐ No, Order No. Pending
Surface Casing Action ID: 365406	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 370642	Compulsory Pooling: ☐ Yes ☒ No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 371953	Surface Commingling: ☐ Yes ☒ No, Order No.
All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No	Non-standard Location: ☐ Yes ☒ No ☐ Common ownership Order No.
Liner 1 Action ID:	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name Jean A Cooper	Email: jean.cooper@permianres.com
Title <u>Regulatory Analyst</u>	Date 11/20/2024

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 30-015-49240	Pool Code 96721	Pool Name LAGUNA SALADO; BONE SPRING
Property Code 336002	Property Name CASSIUS FED COM	Well Number 114H
OGRID No. 372920	Operator Name NOVO OIL & GAS NORTHERN DELAWARE, LLC	Ground Level Elevation 3,000'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL B	Section 22	Township 23 S	Range 29 E	Lot	Ft. from N/S 765' FNL	Ft. from E/W 1,362' FEL	Latitude 32.295722°	Longitude -103.968437°	County EDDY
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Bottom Hole Location

UL A	Section 10	Township 23 S	Range 29 E	Lot	Ft. from N/S 59' FNL	Ft. from E/W 376' FEL	Latitude 32.326873°	Longitude -103.965310°	County EDDY
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Dedicated Acres 320	Infill or Defining Well INFILL	Defining Well API 30-015-49239	Overlapping Spacing Unit (Y/N) N	Consolidation Code 0
Order Numbers. N/A			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL A	Section 22	Township 23 S	Range 29 E	Lot	Ft. from N/S 535' FNL	Ft. from E/W 293' FEL	Latitude 32.296348°	Longitude -103.964978°	County EDDY
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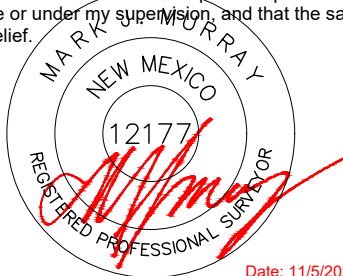
First Take Point (FTP)

UL P	Section 15	Township 23 S	Range 29 E	Lot	Ft. from N/S 215' FSL	Ft. from E/W 320' FEL	Latitude 32.298409°	Longitude -103.965078°	County EDDY
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Last Take Point (LTP)

UL A	Section 10	Township 23 S	Range 29 E	Lot	Ft. from N/S 115' FNL	Ft. from E/W 372' FEL	Latitude 32.326719°	Longitude -103.965297°	County EDDY
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Unitized Area or Area of Uniform Interest Y	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3,026.5
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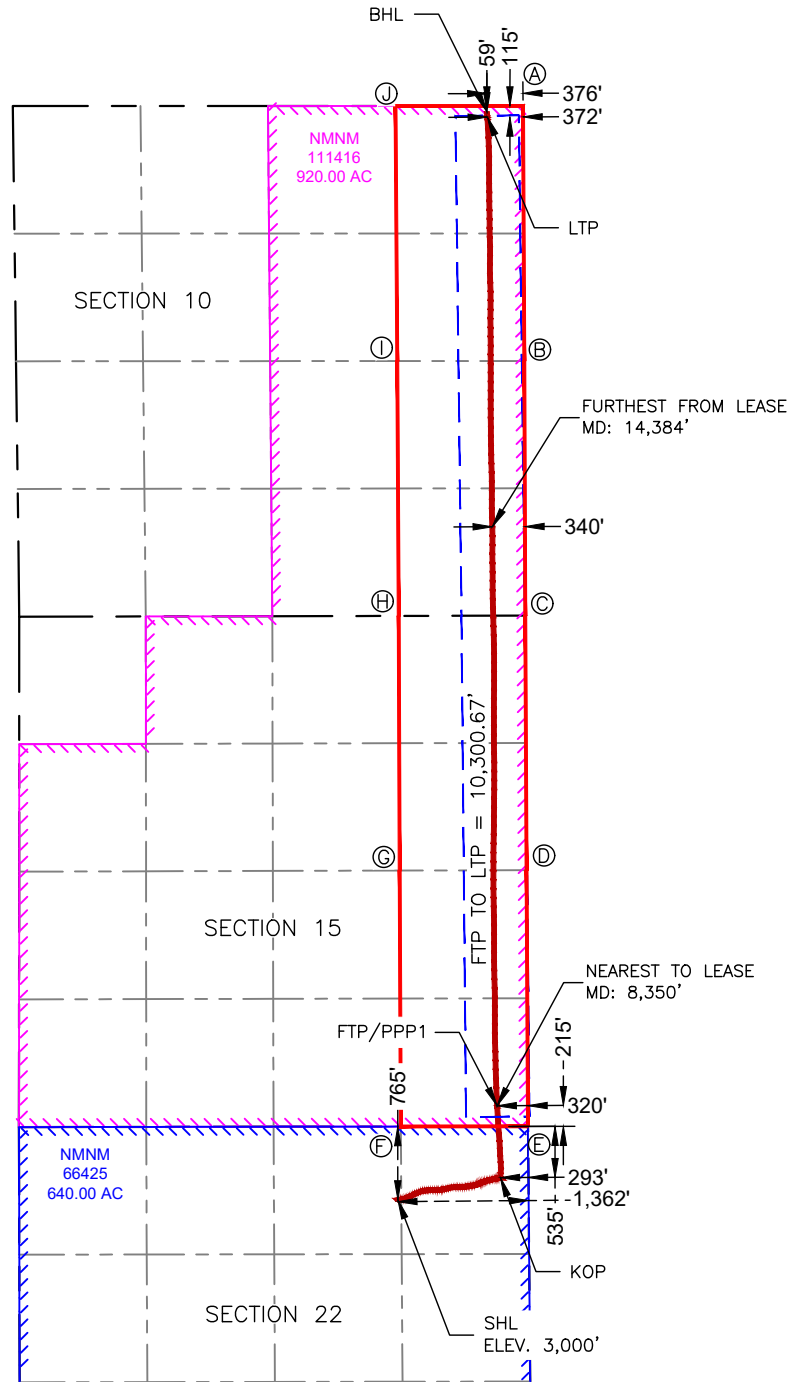
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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 or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore 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. Jean A Cooper 11/20/2024 Signature Date		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.  12177 Signature and Seal of Professional Surveyor Date: 11/5/2024	
Jean A Cooper Printed Name jean.cooper@permianres.com Email Address		Certificate Number 12177	Date of Survey 11/5/2024

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.



SURFACE HOLE LOCATION
 765' FNL & 1,362' FEL
 ELEV. = 3,000.00'
 NAD 83 X = 654,086.83'
 NAD 83 Y = 471,508.05'
 NAD 83 LAT = 32.295722°
 NAD 83 LONG = -103.968437°
 NAD 27 X = 612,903.66'
 NAD 27 Y = 471,448.52'
 NAD 27 LAT = 32.295600°
 NAD 27 LONG = -103.967946°

KICK-OFF POINT
 535' FNL & 293' FEL
 MD = 7,282.00'
 NAD 83 X = 655,154.91'
 NAD 83 Y = 471,739.59'
 NAD 83 LAT = 32.296348°
 NAD 83 LONG = -103.964978°
 NAD 27 X = 613,971.75'
 NAD 27 Y = 471,680.05'
 NAD 27 LAT = 32.296226°
 NAD 27 LONG = -103.964487°

FIRST TAKE POINT & PENETRATION POINT 1
 215' FSL & 320' FEL
 MD = 8,350.00'
 NAD 83 X = 655,121.30'
 NAD 83 Y = 472,489.03'
 NAD 83 LAT = 32.298409°
 NAD 83 LONG = -103.965078°
 NAD 27 X = 613,938.16'
 NAD 27 Y = 472,429.47'
 NAD 27 LAT = 32.298287°
 NAD 27 LONG = -103.964587°

LAST TAKE POINT
 115' FNL & 372' FEL
 MD = 18,653.00'
 NAD 83 X = 655,018.23'
 NAD 83 Y = 482,787.96'
 NAD 83 LAT = 32.326719°
 NAD 83 LONG = -103.965297°
 NAD 27 X = 613,835.38'
 NAD 27 Y = 482,728.16'
 NAD 27 LAT = 32.326598°
 NAD 27 LONG = -103.964805°

BOTTOM HOLE LOCATION
 59' FNL & 376' FEL
 MD = 18,709.00'
 NAD 83 X = 655,014.24'
 NAD 83 Y = 482,843.82'
 NAD 83 LAT = 32.326873°
 NAD 83 LONG = -103.965310°
 NAD 27 X = 613,831.39'
 NAD 27 Y = 482,784.02'
 NAD 27 LAT = 32.326751°
 NAD 27 LONG = -103.964817°

HSU CORNER COORDINATES NEW MEXICO EAST - NAD 83	
A	IRON PIPE W/ BRASS CAP (RAN OVER) N:482,902.98' E:655,390.11'
B	IRON PIPE W/ BRASS CAP (RAN OVER) N:480,247.77' E:655,403.54'
C	IRON PIPE W/ BRASS CAP N:477,594.76' E:655,414.17'
D	IRON PIPE W/ BRASS CAP N:474,943.07' E:655,427.48'
E	IRON PIPE W/ BRASS CAP N:472,274.53' E:655,443.03'
F	CALCULATED CORNER N:472,272.81' E:654,117.56'
G	CALCULATED CORNER N:474,939.29' E:654,106.57'
H	CALCULATED CORNER N:477,591.78' E:654,096.73'
I	CALCULATED CORNER N:480,246.91' E:654,080.13'
J	CALCULATED CORNER N:482,903.24' E:654,062.13'



Permian Resources Operating, LLC

Eddy County, NM (NAD 83 NME)
(Cassius Fed Com) Sec22_T23S_R29E
Cassius Fed Com #114H

OWB

Design: AWB

Standard Survey Report

22 July, 2024





Intrepid
Survey Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Cassius Fed Com #114H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3026.0usft (H&P 375)
Site:	(Cassius Fed Com) Sec22_T23S_R29E	MD Reference:	KB @ 3026.0usft (H&P 375)
Well:	Cassius Fed Com #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Project	Eddy County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Cassius Fed Com) Sec22_T23S_R29E				
Site Position:		Northing:	471,508.05 usft	Latitude:	32° 17' 44.600 N
From:	Map	Easting:	654,053.83 usft	Longitude:	103° 58' 6.757 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.19 °

Well	Cassius Fed Com #114H				
Well Position	+N/-S	0.0 usft	Northing:	471,508.05 usft	Latitude: 32° 17' 44.599 N
	+E/-W	0.0 usft	Easting:	654,086.83 usft	Longitude: 103° 58' 6.373 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 3,000.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	07/19/24	6.56	59.87	47,378.34179551

Design	AWB				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	359.72	

Survey Program	Date	07/22/24			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
192.0	18,709.0	Intrepid MWD (OWB)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
192.0	0.35	348.18	192.0	0.6	-0.1	0.6	0.18	0.18	0.00	
296.0	0.53	321.99	296.0	1.3	-0.5	1.3	0.26	0.17	-25.18	
457.0	0.53	307.66	457.0	2.3	-1.5	2.3	0.08	0.00	-8.90	
548.0	2.29	85.65	548.0	2.7	0.0	2.7	2.97	1.93	151.64	
639.0	4.31	99.80	638.8	2.3	5.1	2.2	2.38	2.22	15.55	
729.0	4.84	96.99	728.5	1.2	12.2	1.2	0.64	0.59	-3.12	
820.0	6.86	88.90	819.0	0.9	21.5	0.8	2.39	2.22	-8.89	
912.0	8.35	81.87	910.2	1.9	33.6	1.7	1.91	1.62	-7.64	
1,002.0	9.76	69.91	999.1	5.5	47.2	5.2	2.61	1.57	-13.29	



Intrepid Survey Report



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Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3026.0usft (H&P 375)
Site:	(Cassius Fed Com) Sec22_T23S_R29E	MD Reference:	KB @ 3026.0usft (H&P 375)
Well:	Cassius Fed Com #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,094.0	9.50	70.09	1,089.8	10.7	61.7	10.4	0.28	-0.28	0.20	
1,188.0	8.44	71.58	1,182.7	15.5	75.5	15.2	1.15	-1.13	1.59	
1,282.0	10.55	66.66	1,275.4	21.1	90.0	20.7	2.40	2.24	-5.23	
1,377.0	10.29	65.08	1,368.8	28.1	105.7	27.6	0.41	-0.27	-1.66	
1,471.0	10.29	64.38	1,461.3	35.3	120.8	34.7	0.13	0.00	-0.74	
1,565.0	11.78	62.97	1,553.6	43.3	137.0	42.6	1.61	1.59	-1.50	
1,659.0	11.17	62.00	1,645.7	51.9	153.5	51.2	0.68	-0.65	-1.03	
1,753.0	11.17	62.53	1,737.9	60.4	169.7	59.6	0.11	0.00	0.56	
1,847.0	12.22	66.58	1,830.0	68.6	186.9	67.7	1.42	1.12	4.31	
1,941.0	12.40	66.22	1,921.8	76.6	205.2	75.6	0.21	0.19	-0.38	
2,036.0	12.66	69.48	2,014.5	84.4	224.3	83.3	0.79	0.27	3.43	
2,130.0	11.96	70.79	2,106.4	91.2	243.2	90.0	0.80	-0.74	1.39	
2,224.0	12.57	82.13	2,198.2	95.8	262.5	94.5	2.64	0.65	12.06	
2,318.0	12.31	83.89	2,290.0	98.2	282.6	96.9	0.49	-0.28	1.87	
2,413.0	12.05	84.86	2,382.9	100.2	302.5	98.7	0.35	-0.27	1.02	
2,507.0	11.61	85.03	2,474.9	101.9	321.7	100.3	0.47	-0.47	0.18	
2,601.0	11.61	86.53	2,567.0	103.3	340.6	101.6	0.32	0.00	1.60	
2,695.0	11.43	88.02	2,659.1	104.2	359.3	102.4	0.37	-0.19	1.59	
2,789.0	11.08	91.27	2,751.3	104.3	377.7	102.5	0.77	-0.37	3.46	
2,883.0	10.82	94.70	2,843.6	103.4	395.5	101.5	0.75	-0.28	3.65	
2,978.0	9.41	91.18	2,937.1	102.5	412.2	100.5	1.62	-1.48	-3.71	
3,071.0	8.00	80.73	3,029.0	103.4	426.1	101.3	2.27	-1.52	-11.24	
3,109.0	7.74	82.57	3,066.7	104.1	431.3	102.0	0.95	-0.68	4.84	
3,259.0	7.65	83.71	3,215.3	106.5	451.2	104.3	0.12	-0.06	0.76	
3,353.0	8.00	83.19	3,308.4	108.0	464.0	105.7	0.38	0.37	-0.55	
3,447.0	11.70	76.68	3,401.0	111.0	479.7	108.6	4.10	3.94	-6.93	
3,542.0	12.75	76.33	3,493.9	115.7	499.3	113.2	1.11	1.11	-0.37	
3,636.0	12.75	76.33	3,585.6	120.6	519.4	118.0	0.00	0.00	0.00	
3,730.0	13.10	75.72	3,677.2	125.7	539.8	123.0	0.40	0.37	-0.65	
3,824.0	14.16	76.51	3,768.5	131.0	561.4	128.2	1.14	1.13	0.84	
3,919.0	13.81	84.50	3,860.7	134.8	583.9	131.9	2.06	-0.37	8.41	
4,013.0	10.29	93.12	3,952.6	135.4	603.5	132.4	4.20	-3.74	9.17	
4,107.0	10.29	92.41	4,045.1	134.6	620.3	131.5	0.13	0.00	-0.76	
4,201.0	10.90	91.62	4,137.5	134.0	637.5	130.9	0.67	0.65	-0.84	
4,296.0	11.34	91.27	4,230.7	133.5	655.9	130.3	0.47	0.46	-0.37	
4,390.0	11.52	88.46	4,322.9	133.6	674.5	130.3	0.62	0.19	-2.99	
4,484.0	10.46	79.41	4,415.2	135.4	692.3	132.0	2.15	-1.13	-9.63	
4,578.0	11.08	78.70	4,507.5	138.7	709.5	135.2	0.67	0.66	-0.76	
4,672.0	10.99	79.85	4,599.8	142.1	727.2	138.5	0.25	-0.10	1.22	
4,767.0	9.67	81.16	4,693.2	144.9	744.0	141.2	1.41	-1.39	1.38	
4,861.0	9.76	81.16	4,785.9	147.3	759.6	143.6	0.10	0.10	0.00	
4,955.0	10.11	82.31	4,878.5	149.7	775.7	145.9	0.43	0.37	1.22	
5,049.0	10.20	82.13	4,971.0	151.9	792.1	148.0	0.10	0.10	-0.19	
5,144.0	9.06	81.25	5,064.7	154.2	807.8	150.2	1.21	-1.20	-0.93	



Intrepid Survey Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Cassius Fed Com #114H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3026.0usft (H&P 375)
Site:	(Cassius Fed Com) Sec22_T23S_R29E	MD Reference:	KB @ 3026.0usft (H&P 375)
Well:	Cassius Fed Com #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,238.0	8.00	76.68	5,157.6	156.8	821.5	152.8	1.34	-1.13	-4.86
5,332.0	6.95	59.63	5,250.8	161.2	832.8	157.1	2.60	-1.12	-18.14
5,427.0	6.60	62.36	5,345.2	166.6	842.6	162.5	0.50	-0.37	2.87
5,521.0	6.86	63.76	5,438.5	171.6	852.4	167.5	0.33	0.28	1.49
5,616.0	7.39	61.57	5,532.8	177.0	862.9	172.8	0.63	0.56	-2.31
5,710.0	7.74	67.72	5,626.0	182.3	874.0	178.1	0.94	0.37	6.54
5,804.0	8.88	70.62	5,719.0	187.1	886.7	182.8	1.29	1.21	3.09
5,898.0	8.27	69.56	5,811.9	191.9	899.9	187.5	0.67	-0.65	-1.13
5,993.0	8.79	71.76	5,905.9	196.6	913.2	192.1	0.65	0.55	2.32
6,087.0	11.17	75.28	5,998.4	201.1	928.9	196.6	2.61	2.53	3.74
6,181.0	10.20	76.07	6,090.8	205.4	945.7	200.8	1.04	-1.03	0.84
6,275.0	10.46	76.51	6,183.3	209.4	962.1	204.7	0.29	0.28	0.47
6,369.0	10.20	77.21	6,275.8	213.3	978.5	208.5	0.31	-0.28	0.74
6,463.0	9.85	77.21	6,368.3	216.9	994.5	212.0	0.37	-0.37	0.00
6,557.0	9.23	78.88	6,461.0	220.1	1,009.7	215.2	0.72	-0.66	1.78
6,651.0	8.09	77.65	6,554.0	223.0	1,023.6	218.0	1.23	-1.21	-1.31
6,746.0	7.47	78.88	6,648.1	225.6	1,036.2	220.5	0.68	-0.65	1.29
6,840.0	6.77	79.85	6,741.4	227.8	1,047.6	222.6	0.76	-0.74	1.03
6,934.0	5.80	82.48	6,834.8	229.4	1,057.8	224.2	1.08	-1.03	2.80
7,029.0	3.69	91.71	6,929.5	229.9	1,065.6	224.7	2.35	-2.22	9.72
7,123.0	0.97	104.90	7,023.4	229.6	1,069.4	224.4	2.93	-2.89	14.03
7,203.0	0.53	300.80	7,103.4	229.6	1,069.7	224.4	1.86	-0.55	-205.13
7,293.0	3.17	322.25	7,193.3	231.8	1,067.8	226.6	2.98	2.93	23.83
7,387.0	14.25	3.38	7,286.1	245.5	1,066.9	240.2	12.81	11.79	43.76
7,480.0	27.87	6.55	7,372.7	278.6	1,070.1	273.4	14.69	14.65	3.41
7,575.0	38.95	0.74	7,451.9	330.7	1,073.0	325.5	12.13	11.66	-6.12
7,669.0	44.05	355.74	7,522.3	392.9	1,071.0	387.7	6.47	5.43	-5.32
7,763.0	48.98	355.47	7,587.0	460.9	1,065.8	455.7	5.25	5.24	-0.29
7,857.0	55.84	358.28	7,644.3	535.2	1,061.8	530.0	7.67	7.30	2.99
7,951.0	58.04	356.61	7,695.6	613.9	1,058.3	608.7	2.77	2.34	-1.78
8,045.0	61.29	354.94	7,743.1	694.8	1,052.3	689.7	3.78	3.46	-1.78
8,139.0	66.30	355.74	7,784.6	778.8	1,045.4	773.7	5.38	5.33	0.85
8,232.1	73.62	357.47	7,816.4	866.1	1,040.3	861.0	8.05	7.86	1.86
FTP @ 8232.1'MD, 100'FSL & 314.8'FEL									
8,233.0	73.69	357.49	7,816.7	867.0	1,040.2	861.9	8.05	7.87	1.78
8,327.0	79.76	356.79	7,838.3	958.3	1,035.7	953.2	6.50	6.46	-0.74
8,352.0	82.75	357.14	7,842.1	983.0	1,034.4	977.9	12.04	11.96	1.40
8,446.0	85.82	356.88	7,851.4	1,076.3	1,029.5	1,071.3	3.28	3.27	-0.28
8,540.0	88.90	358.28	7,855.8	1,170.2	1,025.5	1,165.1	3.60	3.28	1.49
8,635.0	88.81	357.32	7,857.7	1,265.1	1,021.9	1,260.1	1.01	-0.09	-1.01
8,729.0	88.99	359.25	7,859.5	1,359.0	1,019.1	1,354.0	2.06	0.19	2.05
8,823.0	88.81	358.99	7,861.3	1,453.0	1,017.6	1,448.0	0.34	-0.19	-0.28
8,917.0	89.52	358.28	7,862.6	1,546.9	1,015.4	1,542.0	1.07	0.76	-0.76



Intrepid Survey Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Cassius Fed Com #114H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3026.0usft (H&P 375)
Site:	(Cassius Fed Com) Sec22_T23S_R29E	MD Reference:	KB @ 3026.0usft (H&P 375)
Well:	Cassius Fed Com #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,012.0	89.08	358.02	7,863.8	1,641.9	1,012.3	1,636.9	0.54	-0.46	-0.27	
9,106.0	90.57	0.13	7,864.1	1,735.9	1,010.8	1,730.9	2.75	1.59	2.24	
9,200.0	90.04	0.04	7,863.6	1,829.9	1,010.9	1,824.9	0.57	-0.56	-0.10	
9,294.0	89.25	359.34	7,864.2	1,923.8	1,010.4	1,918.9	1.12	-0.84	-0.74	
9,388.0	90.31	0.22	7,864.5	2,017.8	1,010.1	2,012.9	1.47	1.13	0.94	
9,483.0	90.57	359.60	7,863.8	2,112.8	1,009.9	2,107.9	0.71	0.27	-0.65	
9,577.0	90.13	358.64	7,863.2	2,206.8	1,008.5	2,201.9	1.12	-0.47	-1.02	
9,671.0	89.52	357.93	7,863.5	2,300.8	1,005.7	2,295.8	1.00	-0.65	-0.76	
9,766.0	90.40	359.34	7,863.6	2,395.8	1,003.4	2,390.8	1.75	0.93	1.48	
9,860.0	90.13	359.51	7,863.1	2,489.7	1,002.5	2,484.8	0.34	-0.29	0.18	
9,954.0	89.87	0.04	7,863.1	2,583.7	1,002.1	2,578.8	0.63	-0.28	0.56	
10,049.0	89.34	0.31	7,863.8	2,678.7	1,002.4	2,673.8	0.63	-0.56	0.28	
10,143.0	91.01	0.22	7,863.5	2,772.7	1,002.8	2,767.8	1.78	1.78	-0.10	
10,237.0	90.66	359.60	7,862.1	2,866.7	1,002.7	2,861.8	0.76	-0.37	-0.66	
10,331.0	90.22	358.64	7,861.4	2,960.7	1,001.2	2,955.8	1.12	-0.47	-1.02	
10,425.0	89.87	358.46	7,861.3	3,054.7	998.8	3,049.8	0.42	-0.37	-0.19	
10,519.0	89.60	359.08	7,861.8	3,148.7	996.8	3,143.7	0.72	-0.29	0.66	
10,613.0	89.52	359.95	7,862.5	3,242.7	996.0	3,237.7	0.93	-0.09	0.93	
10,707.0	88.99	359.87	7,863.7	3,336.6	995.9	3,331.7	0.57	-0.56	-0.09	
10,801.0	89.96	0.22	7,864.6	3,430.6	996.0	3,425.7	1.10	1.03	0.37	
10,895.0	89.60	0.04	7,864.9	3,524.6	996.2	3,519.7	0.43	-0.38	-0.19	
10,990.0	89.34	0.13	7,865.8	3,619.6	996.3	3,614.7	0.29	-0.27	0.09	
11,084.0	90.40	0.92	7,866.0	3,713.6	997.2	3,708.7	1.41	1.13	0.84	
11,178.0	90.40	1.01	7,865.4	3,807.6	998.8	3,802.7	0.10	0.00	0.10	
11,272.0	89.96	0.74	7,865.1	3,901.6	1,000.2	3,896.7	0.55	-0.47	-0.29	
11,366.0	89.69	0.31	7,865.4	3,995.6	1,001.1	3,990.7	0.54	-0.29	-0.46	
11,460.0	89.16	0.48	7,866.3	4,089.6	1,001.7	4,084.6	0.59	-0.56	0.18	
11,555.0	89.60	0.48	7,867.3	4,184.6	1,002.5	4,179.6	0.46	0.46	0.00	
11,649.0	89.43	0.92	7,868.1	4,278.6	1,003.6	4,273.6	0.50	-0.18	0.47	
11,744.0	88.90	359.78	7,869.5	4,373.6	1,004.2	4,368.6	1.32	-0.56	-1.20	
11,838.0	89.08	359.43	7,871.2	4,467.5	1,003.6	4,462.6	0.42	0.19	-0.37	
11,933.0	91.10	0.13	7,871.0	4,562.5	1,003.2	4,557.6	2.25	2.13	0.74	
12,027.0	90.04	358.46	7,870.1	4,656.5	1,002.1	4,651.6	2.10	-1.13	-1.78	
12,121.0	91.63	359.87	7,868.7	4,750.5	1,000.7	4,745.5	2.26	1.69	1.50	
12,216.0	91.71	0.04	7,866.0	4,845.4	1,000.6	4,840.5	0.20	0.08	0.18	
12,310.0	91.10	359.78	7,863.7	4,939.4	1,000.5	4,934.5	0.71	-0.65	-0.28	
12,404.0	90.92	359.87	7,862.0	5,033.4	1,000.2	5,028.5	0.21	-0.19	0.10	
12,498.0	90.22	0.22	7,861.1	5,127.4	1,000.2	5,122.4	0.83	-0.74	0.37	
12,593.0	89.16	0.92	7,861.6	5,222.4	1,001.2	5,217.4	1.34	-1.12	0.74	
12,687.0	88.81	0.04	7,863.2	5,316.4	1,002.0	5,311.4	1.01	-0.37	-0.94	
12,782.0	89.52	0.22	7,864.6	5,411.4	1,002.2	5,406.4	0.77	0.75	0.19	
12,876.0	89.96	0.13	7,865.1	5,505.4	1,002.5	5,500.4	0.48	0.47	-0.10	
12,970.0	91.71	0.22	7,863.7	5,599.3	1,002.8	5,594.4	1.86	1.86	0.10	
13,064.0	91.80	359.51	7,860.8	5,693.3	1,002.5	5,688.3	0.76	0.10	-0.76	



Intrepid Survey Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Cassius Fed Com #114H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3026.0usft (H&P 375)
Site:	(Cassius Fed Com) Sec22_T23S_R29E	MD Reference:	KB @ 3026.0usft (H&P 375)
Well:	Cassius Fed Com #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,159.0	91.98	358.72	7,857.7	5,788.2	1,001.1	5,783.3	0.85	0.19	-0.83
13,253.0	91.28	358.46	7,855.0	5,882.2	998.8	5,877.2	0.79	-0.74	-0.28
13,347.0	90.48	358.28	7,853.6	5,976.1	996.1	5,971.2	0.87	-0.85	-0.19
13,441.0	89.78	358.02	7,853.3	6,070.1	993.1	6,065.1	0.79	-0.74	-0.28
13,536.0	90.40	358.99	7,853.2	6,165.0	990.6	6,160.1	1.21	0.65	1.02
13,630.0	90.22	358.28	7,852.7	6,259.0	988.3	6,254.1	0.78	-0.19	-0.76
13,724.0	90.75	0.13	7,851.9	6,353.0	987.0	6,348.1	2.05	0.56	1.97
13,818.0	91.01	359.78	7,850.4	6,447.0	987.0	6,442.1	0.46	0.28	-0.37
13,912.0	90.75	359.69	7,849.0	6,541.0	986.5	6,536.1	0.29	-0.28	-0.10
14,007.0	90.22	358.55	7,848.2	6,635.9	985.1	6,631.1	1.32	-0.56	-1.20
14,101.0	89.96	0.57	7,848.0	6,729.9	984.4	6,725.0	2.17	-0.28	2.15
14,195.0	90.92	0.57	7,847.3	6,823.9	985.3	6,819.0	1.02	1.02	0.00
14,289.0	90.75	359.25	7,846.0	6,917.9	985.1	6,913.0	1.42	-0.18	-1.40
14,384.0	90.22	358.37	7,845.1	7,012.9	983.2	7,008.0	1.08	-0.56	-0.93
14,479.0	90.84	358.99	7,844.3	7,107.9	981.0	7,103.0	0.92	0.65	0.65
14,573.0	90.84	359.08	7,842.9	7,201.8	979.4	7,197.0	0.10	0.00	0.10
14,667.0	91.98	0.57	7,840.6	7,295.8	979.1	7,290.9	2.00	1.21	1.59
14,762.0	91.98	359.95	7,837.3	7,390.7	979.5	7,385.9	0.65	0.00	-0.65
14,856.0	91.54	359.25	7,834.4	7,484.7	978.9	7,479.8	0.88	-0.47	-0.74
14,951.0	91.54	358.72	7,831.9	7,579.7	977.2	7,574.8	0.56	0.00	-0.56
15,045.0	91.01	357.76	7,829.8	7,673.6	974.3	7,668.7	1.17	-0.56	-1.02
15,139.0	91.80	359.43	7,827.5	7,767.5	972.0	7,762.7	1.96	0.84	1.78
15,234.0	91.80	359.16	7,824.5	7,862.5	970.8	7,857.6	0.28	0.00	-0.28
15,328.0	90.84	359.16	7,822.3	7,956.4	969.5	7,951.6	1.02	-1.02	0.00
15,422.0	90.31	359.34	7,821.4	8,050.4	968.2	8,045.6	0.60	-0.56	0.19
15,517.0	91.28	359.87	7,820.0	8,145.4	967.6	8,140.6	1.16	1.02	0.56
15,611.0	90.84	359.60	7,818.3	8,239.4	967.1	8,234.6	0.55	-0.47	-0.29
15,705.0	91.89	0.04	7,816.1	8,333.4	966.8	8,328.5	1.21	1.12	0.47
15,799.0	91.28	0.22	7,813.5	8,427.3	967.1	8,422.5	0.68	-0.65	0.19
15,894.0	91.19	0.04	7,811.4	8,522.3	967.3	8,517.5	0.21	-0.09	-0.19
15,988.0	92.42	359.69	7,808.5	8,616.3	967.1	8,611.4	1.36	1.31	-0.37
16,082.0	90.48	359.51	7,806.1	8,710.2	966.4	8,705.4	2.07	-2.06	-0.19
16,177.0	88.90	0.22	7,806.6	8,805.2	966.2	8,800.4	1.82	-1.66	0.75
16,271.0	88.55	0.13	7,808.7	8,899.2	966.5	8,894.4	0.38	-0.37	-0.10
16,365.0	88.64	359.69	7,811.0	8,993.2	966.3	8,988.3	0.48	0.10	-0.47
16,459.0	87.23	358.55	7,814.4	9,087.1	964.9	9,082.3	1.93	-1.50	-1.21
16,554.0	88.20	0.48	7,818.2	9,182.0	964.1	9,177.2	2.27	1.02	2.03
16,648.0	89.78	1.18	7,819.8	9,276.0	965.4	9,271.1	1.84	1.68	0.74
16,742.0	88.99	359.78	7,820.8	9,370.0	966.2	9,365.1	1.71	-0.84	-1.49
16,836.0	88.64	358.81	7,822.8	9,463.9	965.1	9,459.1	1.10	-0.37	-1.03
16,930.0	88.29	357.93	7,825.3	9,557.9	962.4	9,553.0	1.01	-0.37	-0.94
17,024.0	88.99	358.72	7,827.5	9,651.8	959.6	9,647.0	1.12	0.74	0.84
17,119.0	89.52	0.48	7,828.8	9,746.8	959.0	9,742.0	1.93	0.56	1.85



Intrepid
Survey Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Cassius Fed Com #114H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3026.0usft (H&P 375)
Site:	(Cassius Fed Com) Sec22_T23S_R29E	MD Reference:	KB @ 3026.0usft (H&P 375)
Well:	Cassius Fed Com #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,213.0	90.31	0.66	7,828.9	9,840.8	959.9	9,836.0	0.86	0.84	0.19	
17,307.0	89.78	359.25	7,828.8	9,934.8	959.8	9,930.0	1.60	-0.56	-1.50	
17,401.0	88.99	358.11	7,829.8	10,028.7	957.7	10,023.9	1.48	-0.84	-1.21	
17,495.0	88.46	359.25	7,831.9	10,122.7	955.5	10,117.9	1.34	-0.56	1.21	
17,590.0	90.31	359.87	7,833.0	10,217.7	954.8	10,212.9	2.05	1.95	0.65	
17,684.0	90.40	359.25	7,832.4	10,311.7	954.1	10,306.9	0.67	0.10	-0.66	
17,779.0	89.60	358.99	7,832.4	10,406.7	952.6	10,401.9	0.89	-0.84	-0.27	
17,873.0	89.25	0.13	7,833.3	10,500.6	951.9	10,495.9	1.27	-0.37	1.21	
17,967.0	88.37	358.99	7,835.3	10,594.6	951.2	10,589.8	1.53	-0.94	-1.21	
18,062.0	90.31	0.39	7,836.4	10,689.6	950.6	10,684.8	2.52	2.04	1.47	
18,156.0	90.84	359.60	7,835.4	10,783.6	950.6	10,778.8	1.01	0.56	-0.84	
18,250.0	91.71	359.34	7,833.3	10,877.6	949.8	10,872.8	0.97	0.93	-0.28	
18,344.0	92.42	358.37	7,829.9	10,971.5	947.9	10,966.7	1.28	0.76	-1.03	
18,438.0	91.98	357.32	7,826.3	11,065.3	944.4	11,060.6	1.21	-0.47	-1.12	
18,533.0	91.01	356.70	7,823.8	11,160.2	939.4	11,155.5	1.21	-1.02	-0.65	
18,627.0	90.22	355.82	7,822.8	11,254.0	933.3	11,249.3	1.26	-0.84	-0.94	
18,650.0	90.48	355.91	7,822.7	11,276.9	931.6	11,272.2	1.20	1.13	0.39	
LAST SVY @ 18650.0										
18,668.1	90.48	355.91	7,822.5	11,295.0	930.3	11,290.3	0.00	0.00	0.00	
LTP @ 18668.1'MD, 100'FNL & 372.9'FEL										
18,709.0	90.48	355.91	7,822.2	11,335.8	927.4	11,331.1	0.00	0.00	0.00	
Projection to TD @ 18709'MD, 59.2'FNL & 376.2'FEL										

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- Shape										
FTP/PP (Cassius Fed	0.00	0.00	7,843.0	866.0	1,015.6	472,374.09	655,102.45	32° 17' 53.135 N		103° 57' 54.505 W
- actual wellpath misses target center by 35.3usft at 8239.4usft MD (7818.5 TVD, 873.1 N, 1040.0 E)										
- Point										
LTP/BHL (Cassius Fed	0.00	359.72	7,843.0	11,295.0	963.8	482,803.05	655,050.61	32° 19' 36.338 N		103° 57' 54.692 W
- actual wellpath misses target center by 39.1usft at 18665.6usft MD (7822.6 TVD, 11292.4 N, 930.5 E)										
- Rectangle (sides W100.0 H10,431.0 D30.0)										



Intrepid Survey Report



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Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3026.0usft (H&P 375)
Site:	(Cassius Fed Com) Sec22_T23S_R29E	MD Reference:	KB @ 3026.0usft (H&P 375)
Well:	Cassius Fed Com #114H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,132.6	3,090.0	LAMAR				
3,169.9	3,127.0	BELL CANYON				
3,987.9	3,928.0	CHERRY CANYON				
5,229.3	5,149.0	BRUSHY CANYON				
6,915.1	6,816.0	BONE SPRING LIME				
8,118.2	7,776.0	1ST BONE SPRING SAND				

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,232.1	7,816.4	866.1	1,040.3	FTP @ 8232.1'MD, 100'FSL & 314.8'FEL	
18,650.0	7,822.7	11,276.9	931.6	LAST SVY @ 18650.0	
18,668.1	7,822.5	11,295.0	930.3	LTP @ 18668.1'MD, 100'FNL & 372.9'FEL	
18,709.0	7,822.2	11,335.8	927.4	Projection to TD @ 18709'MD, 59.2'FNL & 376.2'FEL	

Checked By: _____ Approved By: _____ Date: _____

C-105 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Section 1 - Operator and Well Information

Submittal Type: ☒ New Well ☐ Workover ☐ Deepening ☐ Plugback ☐ Different Reservoir ☐ C-144 Closure Attachment ☐ Other	
Operator Name: NOVO OIL & GAS NORTHERN DELAWARE, LLC	OGRID: 372920
Property Name and Well Number: CASSIUS FED COM 114H	Property Code: 336002
Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal	API Number: 30-0 15-49240
Pool Name: LAGUNA SALADO; BONE SPRING	Pool Code: 96721

Section 2 – Well Location

	UI or lot no.	Section	Township	Range	Lot Id	Feet from	N/S Line	Feet from	E/W Line	County
SHL:	B	22	23 S	29 E		765'	FNL	1,362'	FEL	EDDY
BHL	A	10	23 S	29 E		59'	FNL	376'	FEL	EDDY

Section 3 – Completion Information

Date T.D. Reached 7/21/2024	Total Measured Depth of Well 18,709	Acid Volume (bbls)	☒ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released 7/23/2024	Plug-Back Measured Depth 18,692	Completion Fluid Used (bbls) 451,708	Were Logs Ran (Y/N) Y
Completion Date 10/26/2024	Perforations (MD and TVD) TVD FTP: 8,350 FTP: 7,842 LTP: 18,653 LTP: 7,823	Completion Proppant Used (lbs) 25,729,217	List Type of Logs Ran if applicable: Gamma Ray

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID: 365406	UIC Permit/Order (UIC wells only) ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 370642	NOI Recomplete Action ID (if applicable):
Intermediate 2 Casing Action ID:	NOI Plugback Action ID (if applicable):
Production Casing Action ID: 371953	Cement Squeeze Action ID (if applicable):
Tubing Action ID: 387845	All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No
Liner 1 Action ID:	Casing was installed prior to Action ID system (Y/N): N

Section 5 – Test Data

Date First Production 10/26/2024	Production Method Flowing	Well Status Producing	Gas – Oil Ratio 1855
Date of Test 11/18/2024	Choke Size .906 inches	Flowing Tubing Pressure N/A	Casing Pressure 737
24 hr Oil (bbls) 1,382	24 hr Gas (MCF) 2,563	24 hr Water (bbls) 5,970	Oil Gravity - API 45.1
Disposition of Gas: Sold			

Section 6 – Pits

☐ A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.
☒ A Closed Loop System was used.
☐ If an on-site burial was used at the well, report the exact location of the on-site burial: LAT: _____ LONG: _____

Section 7 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name Jean A Cooper	Email: jean.cooper@permianres.com
Title <u>Regulatory Analyst</u>	Date 11/20/2024

South Formations				North Formations			
Formation/Zone	MD	TVD	W/O/G	Formation/Zone	MD	TVD	W/O/G
T. Anhy				T. San Jose			
T. Salt				T. Nacimiento			
B. Salt				T. Ojo Alamo			
T. Yates				T. Kirtland			
T. 7 Rivers				T. Fruitland			
T. Queen				T. Pictured Cliffs			
T. Grayburg				T. Lewis Shale			
T. San Andres				T. Chacra			
T. Glorieta				T. Cliff House			
T. Yeso				T. Menefee			
T. Paddock				T. Point Lookout			
T. Blinebry				T. Mancos			
T.Tubb				T. Gallup			
T. Drinkard				T. Greenhorn			
T. Abo				T. Graneros			
T. Wolfcamp				T. Dakota			
T. Penn				T. Morrison			
T. Cisco				T. Bluff			
T. Canyon				T.Todilto			
T. Strawn				T. Entrada			
T. Atoka				T. Wingate			
T. Morrow				T. Chinle			
T. Barnett Shale				T. Permian			
T. Miss				T. Penn A"			
T. Woodford Shale				T. Penn. "B"			
T. Devonian				T. Penn. "C"			
T. Silurian				T. Penn. "D"			
T. Fusselman				T. Leadville			
T. Montoya				T. Madison			
T. Simpson				T. Elbert			
T. McKee				T. McCracken			
T. Waddell				T. Ignacio Otzte			
T. Connel				T. Granite			
T. Ellenburger				T. Hermosa			
T. Gr. Wash				T. De Chelly			
T. Delaware Sand				T. Pinkerton			
T. Lamar Lime							
T. Bell Canyon	3,170	3,127	0	LAMAR	3,133	3,090	0
T. Cherry Canyon	3,988	3,928	0	BONE SPRING LIME	6,915	6,816	0
T. Brushy Canyon	5,229	5,149	0	RUSTLER	305	305	0
T. Bone Springs				SALADO	574	564	0
T. 1st BS Sand	8,118	7,776	0				
T. 2nd BS Carbonate							
T. 2nd BS Sand							
T. 3rd BS Carbonate							
T. 3rd BS Sand							

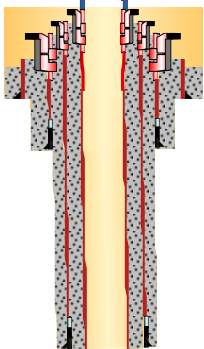
Drilling Wellbore Schematic

Well Name: CASSIUS FED COM 114H

County EDDY	State/Province NEW MEXICO	Pad Name CASSIUS 1510 X2	Wells Drilling on Pad 4
Wellbore API/UWI 30-015-49240	Original KB Elevation (ft) 3,026.5	Ground Elevation (ft) 3,000	KB-Ground Distance (ft) 26.50
Responsible Grp 1	Contractor H&P	Rig Number 375	Target Formation FBSG

Original Hole

Directional schematic (actual)



OD:20 in; Grade:J-55; Wt.:94.00 lb/ft; Top MD:31 ftKB; Depth MD:31-120
OD:13 3/8 in; Grade:J-55; Wt.:54.50 lb/ft; Top MD:31 ftKB; Depth MD:31-368
ftKB

OD:9 5/8 in; Grade:J-55; Wt.:36.00 lb/ft; Top MD:30 ftKB; Depth MD:30-3,181

OD:5 1/2 in; Grade:P-110; Wt.:20.00
lb/ft; Top MD:-2 ftKB; Depth 18,694

Wellbore Sections

Section Des	Size (in)	Top Depth (ftKB)	Top Depth (TVD) (ftKB)	Btm Depth (ftKB)	Btm Depth (TVD) (ftKB)
Conductor	24	26.0	26.0	120.0	120.0
Surface	17 1/2	120.0	120.0	383.0	383.0
Intermediate 1	12 1/4	383.0	383.0	3,196.0	3,153.0
Production	8 3/4	3,196.0	3,153.0	8,381.0	7,846.6
Production	8 1/2	8,381.0	7,846.6	18,709.0	7,825.8

Wellbore Kick Offs & Key Depths

Type	Top Depth (ftKB)	Depth Top (TVD) (ftKB)
KOP-LP	7,282.0	7,182.9

Deepest TVD:

TVD (ftKB)
7,872.85

Casing Strings

Csg Des	OD (in)	OD Nom Max (in)	Wt/Len (lb/ft)	Grade	Top (ftKB)	Set Depth (ftKB)	# Centralizers (Tally)
Conductor	20	20	94.00	J-55	31.5	120	0
Surface Casing	13 3/8	13 3/8	54.50	J-55	30.7	368	5
Intermediate 1	9 5/8	9 5/8	36.00	J-55	30.3	3,181	21
Production Casing/Liner	5 1/2	5 1/2	20.00	P-110	-1.9	18,694	95

Perfs

MD FTP: 8,350', MD LTP: 18,653'

TVD FTP: 7,842', TVD LTP: 7,823'

Number of Holes: 2,127, Size of Holes: .43 inches

Cement:

Surface: Tail w/430sx Class C, 1.33 yield, TOC: 31.5

Intermediate: Lead w/495sx, Class C, 3.08 yield, Tail w/290sx Class C, 1.38 yield, TOC: 30.7

Production: Lead w/595sx Class C, 3.48 yield, Tail w/2045sx Class C, 1.65 yield, TOC: 30.3

Tubing

Information Not Available

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

ACKNOWLEDGMENTS

Action 406460

ACKNOWLEDGMENTS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 406460
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
☒	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

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CONDITIONS

Action 406460

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 406460
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days of BLM approval.	11/13/2025
plmartinez	Please submit Well Log (s) as documented on the C-105 and submit as [UF-WL] EP Well Log Submission.	11/13/2025