

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: <input type="checkbox"/> Test Allowable (C-104RT) <input checked="" type="checkbox"/> New Well (C-104NW) <input type="checkbox"/> Recomplete (C-104RC) <input type="checkbox"/> Pay Add (C-104RC) <input type="checkbox"/> Amended	
Operator Name: NOVO OIL & GAS NORTHERN DELAWARE, LLC	OGRID: 372920
Property Name and Well Number: CASSIUS FED COM 124H	Property Code: 336002
Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal	API Number: 30-0 15-49242
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	1,428' FEL	32.295722°	-103.968650°	EDDY

Section 3 – Completion Information

Producing Method Flowing	Ready Date 10/25/2024	Perforations MD FTP:9,190 LTP: 19,596	Perforations TVD FTP:8,846 LTP:8,840
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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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, Order No. Pending
Surface Casing Action ID: 365429	Unit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Intermediate 1 Casing Action ID: 370236	Compulsory Pooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Intermediate 2 Casing Action ID:	Down Hole Commingling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Production Casing Action ID: 378713	Surface Commingling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
All casing was pressure tested in accordance with NMAC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Non-standard Location: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Common ownership Order No.
Liner 1 Action ID:	Non-standard Proration: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.

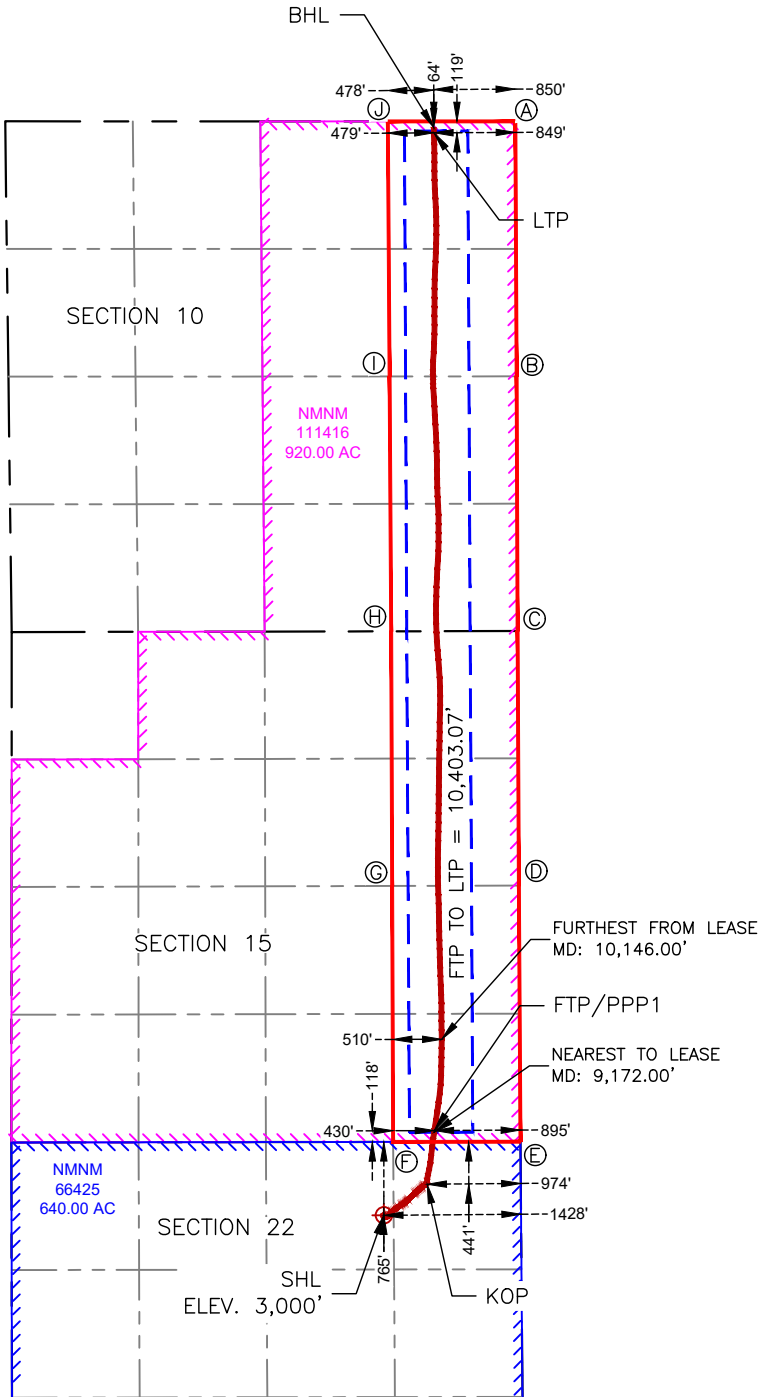
Section 5 - Operator Signature and Certification

<input checked="" type="checkbox"/> I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
<input checked="" type="checkbox"/> I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
<input checked="" type="checkbox"/> 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 Regulatory Analyst	Date 11/20/2024

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 & 1,428' FEL
 ELEV. = 3,000.00'
 NAD 83 X = 654,020.83'
 NAD 83 Y = 471,508.05'
 NAD 83 LAT = 32.295722°
 NAD 83 LONG = -103.968650°
 NAD 27 X = 612,837.66'
 NAD 27 Y = 471,448.52'
 NAD 27 LAT = 32.295600°
 NAD 27 LONG = -103.968159°

KICK-OFF POINT
 441' FNL & 974' FEL
 MD = 8,298.00'
 NAD 83 X = 654,472.80'
 NAD 83 Y = 471,832.44'
 NAD 83 LAT = 32.296610°
 NAD 83 LONG = -103.967184°
 NAD 27 X = 613,289.64'
 NAD 27 Y = 471,772.90°
 NAD 27 LAT = 32.296488°
 NAD 27 LONG = -103.966693°

FIRST TAKE POINT & PENETRATION POINT 1
 118' FSL & 895' FEL
 MD = 9,190.00'
 NAD 83 X = 654,547.02'
 NAD 83 Y = 472,391.14'
 NAD 83 LAT = 32.298145°
 NAD 83 LONG = -103.966938°
 NAD 27 X = 613,363.88'
 NAD 27 Y = 472,331.59°
 NAD 27 LAT = 32.298023°
 NAD 27 LONG = -103.966447°

LAST TAKE POINT
 119' FNL & 849' FEL
 MD = 19,596.00'
 NAD 83 X = 654,541.56'
 NAD 83 Y = 482,784.43'
 NAD 83 LAT = 32.326714°
 NAD 83 LONG = -103.966840°
 NAD 27 X = 613,358.71'
 NAD 27 Y = 482,724.63°
 NAD 27 LAT = 32.326592°
 NAD 27 LONG = -103.966348°

BOTTOM HOLE LOCATION
 64' FNL & 850' FEL
 MD = 19,651.00'
 NAD 83 X = 654,540.33'
 NAD 83 Y = 482,839.37'
 NAD 83 LAT = 32.326865°
 NAD 83 LONG = -103.966844°
 NAD 27 X = 613,357.49°
 NAD 27 Y = 482,779.57°
 NAD 27 LAT = 32.326743°
 NAD 27 LONG = -103.966352°

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'



Operator: Permian Resources Operating, LLC
 Well Name: Cassius_Fed_Com_124H
 Job Number: ID4433
 Survey Company: Intrepid Directional Drilling Specialists
 Rig Name: H&P 375

Target KBTVD: 8839.00
 Target Inclination: 90.00°
 Declination Correction: 6.37°
 DF Elevation: 3026

Vertical Section Calculated Along Azimuth: 359.72°

Survey Calculation Method: Minimum Curvature

TIE PT.	SVY	Survey	INC	AZM	Course	TVD	V'Sect	+N/-S	+E/-W	Dogleg
TYPE	#	Depth	deg.	deg.	Length	Ft.	FT.	Ft.	Ft.	%100'
TIE PT.	0	0.00	0.00	0.00	0	0	0	0	0	0.00
MWD	1	192.00	0.97	281.29	192	191.99	0.33	0.32	-1.59	0.51
MWD	2	283.00	0.70	276.72	91	282.98	0.55	0.53	-2.90	0.31
MWD	3	457.00	0.53	261.08	174	456.97	0.56	0.53	-4.75	0.14
MWD	4	548.00	0.62	267.93	91	547.97	0.48	0.45	-5.66	0.12
MWD	5	639.00	0.35	181.71	91	638.96	0.19	0.15	-6.16	0.76
MWD	6	729.00	0.88	162.46	90	728.96	-0.75	-0.78	-5.96	0.62
MWD	7	821.00	1.06	153.15	92	820.95	-2.19	-2.21	-5.36	0.26
MWD	8	1002.00	0.97	148.14	181	1001.92	-4.99	-5.01	-3.80	0.07
MWD	9	1094.00	1.06	166.60	92	1093.90	-6.48	-6.50	-3.19	0.37
MWD	10	1188.00	1.23	174.33	94	1187.88	-8.33	-8.35	-2.89	0.24
MWD	11	1282.00	1.14	179.43	94	1281.86	-10.27	-10.28	-2.78	0.15
MWD	12	1376.00	1.14	163.96	94	1375.85	-12.11	-12.12	-2.51	0.33
MWD	13	1471.00	0.70	180.57	95	1470.83	-13.60	-13.61	-2.26	0.54
MWD	14	1565.00	0.79	159.12	94	1564.83	-14.78	-14.79	-2.03	0.31
MWD	15	1659.00	0.70	119.31	94	1658.82	-15.67	-15.67	-1.30	0.55
MWD	16	1753.00	0.70	111.66	94	1752.81	-16.16	-16.17	-0.27	0.10
MWD	17	1847.00	1.06	113.77	94	1846.80	-16.73	-16.73	1.06	0.38
MWD	18	1941.00	0.97	105.60	94	1940.79	-17.31	-17.29	2.63	0.18
MWD	19	2035.00	1.14	95.14	94	2034.77	-17.61	-17.59	4.32	0.27
MWD	20	2130.00	1.32	97.78	95	2129.75	-17.85	-17.82	6.35	0.20
MWD	21	2224.00	1.67	97.34	94	2223.72	-18.19	-18.14	8.78	0.37
MWD	22	2318.00	2.37	95.05	94	2317.66	-18.55	-18.49	12.08	0.75
MWD	23	2412.00	3.08	81.16	94	2411.55	-18.35	-18.27	16.51	1.03
MWD	24	2507.00	3.08	86.97	95	2506.41	-17.85	-17.75	21.58	0.33
MWD	25	2601.00	4.40	65.08	94	2600.22	-16.23	-16.09	27.37	2.04
MWD	26	2695.00	4.75	69.65	94	2693.92	-13.39	-13.22	34.29	0.54
MWD	27	2789.00	5.63	60.60	94	2787.53	-9.81	-9.60	41.96	1.28
MWD	28	2883.00	6.68	40.21	94	2881.00	-3.41	-3.16	49.50	2.56
MWD	29	2977.00	7.21	24.30	94	2974.32	6.12	6.39	55.46	2.12
MWD	30	3071.00	6.33	32.91	94	3067.66	15.82	16.11	60.70	1.43
MWD	31	3117.00	6.51	34.23	46	3113.38	20.09	20.40	63.55	0.51
MWD	32	3245.00	7.56	49.25	128	3240.42	31.53	31.90	74.01	1.65
MWD	33	3339.00	8.71	51.80	94	3333.47	39.92	40.33	84.29	1.28
MWD	34	3433.00	9.85	52.07	94	3426.24	49.21	49.68	96.22	1.21
MWD	35	3527.00	9.94	52.07	94	3518.84	59.08	59.61	108.96	0.10
MWD	36	3622.00	8.71	53.74	95	3612.59	68.31	68.90	121.23	1.33
MWD	37	3716.00	8.97	55.85	94	3705.47	76.58	77.23	133.04	0.44
MWD	38	3810.00	6.60	54.79	94	3798.60	83.75	84.46	143.52	2.53
MWD	39	3905.00	4.92	57.96	95	3893.12	89.02	89.77	151.43	1.80
MWD	40	3999.00	4.92	59.63	94	3986.77	93.17	93.94	158.33	0.15
MWD	41	4093.00	5.54	58.39	94	4080.38	97.55	98.36	165.67	0.67
MWD	42	4188.00	6.33	57.52	95	4174.87	102.72	103.57	173.99	0.84
MWD	43	4282.00	7.30	56.72	94	4268.20	108.74	109.63	183.35	1.04
MWD	44	4376.00	7.65	56.20	94	4361.40	115.44	116.39	193.55	0.38

MWD	45	4471.00	8.09	54.70	95	4455.51	122.77	123.77	204.26	0.51
MWD	46	4565.00	7.91	56.29	94	4548.59	130.13	131.18	215.04	0.30
MWD	47	4659.00	7.65	56.55	94	4641.73	137.12	138.22	225.64	0.28
MWD	48	4753.00	7.03	55.14	94	4734.96	143.81	144.96	235.58	0.69
MWD	49	4848.00	6.16	43.72	95	4829.33	150.77	151.97	243.87	1.65
MWD	50	4942.00	6.95	39.94	94	4922.72	158.74	159.97	251.01	0.96
MWD	51	5036.00	6.42	44.24	94	5016.08	166.83	168.10	258.32	0.78
MWD	52	5130.00	5.28	42.66	94	5109.59	173.75	175.04	264.92	1.22
MWD	53	5224.00	5.28	44.33	94	5203.19	179.99	181.32	270.88	0.16
MWD	54	5319.00	5.63	44.86	95	5297.76	186.39	187.75	277.22	0.37
MWD	55	5412.00	5.45	45.74	93	5390.32	192.67	194.06	283.60	0.21
MWD	56	5507.00	5.28	47.67	95	5484.91	198.74	200.16	290.06	0.26
MWD	57	5601.00	4.84	48.46	94	5578.54	204.25	205.70	296.23	0.47
MWD	58	5695.00	4.40	47.23	94	5672.24	209.30	210.78	301.84	0.48
MWD	59	5790.00	5.63	46.53	95	5766.87	214.95	216.46	307.90	1.30
MWD	60	5884.00	5.54	44.95	94	5860.42	221.30	222.84	314.45	0.19
MWD	61	5978.00	6.95	47.41	94	5953.86	228.32	229.90	321.84	1.53
MWD	62	6072.00	7.39	47.67	94	6047.13	236.20	237.82	330.50	0.47
MWD	63	6167.00	8.00	48.90	95	6141.27	244.62	246.28	340.00	0.67
MWD	64	6261.00	8.88	49.52	94	6234.25	253.57	255.29	350.45	0.94
MWD	65	6355.00	8.71	50.05	94	6327.15	262.80	264.57	361.42	0.20
MWD	66	6449.00	8.71	51.72	94	6420.06	271.73	273.55	372.46	0.27
MWD	67	6543.00	8.18	51.19	94	6513.04	280.27	282.15	383.26	0.57
MWD	68	6637.00	7.83	49.78	94	6606.13	288.55	290.48	393.36	0.43
MWD	69	6731.00	6.95	49.52	94	6699.35	296.33	298.30	402.58	0.94
MWD	70	6826.00	6.51	50.84	95	6793.69	303.42	305.43	411.12	0.49
MWD	71	6919.00	5.63	51.28	93	6886.17	309.57	311.62	418.77	0.95
MWD	72	7014.00	4.48	51.28	95	6980.80	314.77	316.85	425.30	1.21
MWD	73	7108.00	3.52	55.23	94	7074.57	318.69	320.80	430.54	1.06
MWD	74	7202.00	1.67	77.82	94	7168.47	320.60	322.73	434.25	2.21
MWD	75	7296.00	2.64	120.89	94	7262.41	319.77	321.91	437.44	1.94
MWD	76	7390.00	3.34	112.71	94	7356.28	317.58	319.74	441.83	0.87
MWD	77	7484.00	3.78	113.68	94	7450.10	315.25	317.44	447.19	0.47
MWD	78	7578.00	3.69	116.93	94	7543.90	312.61	314.82	452.73	0.24
MWD	79	7672.00	2.29	127.39	94	7637.77	310.08	312.31	456.92	1.59
MWD	80	7766.00	0.35	152.88	94	7731.74	308.67	310.92	458.54	2.11
MWD	81	7860.00	0.62	329.54	94	7825.74	308.86	311.10	458.41	1.03
MWD	82	8048.00	0.70	324.53	188	8013.73	310.67	312.91	457.23	0.05
MWD	83	8142.00	2.20	324.44	94	8107.69	312.62	314.85	455.85	1.60
MWD	84	8236.00	3.43	334.90	94	8201.58	316.64	318.86	453.60	1.41
MWD	85	8356.00	7.30	347.56	120	8321.03	327.36	329.56	450.44	3.35
MWD	86	8450.00	15.12	1.80	94	8413.19	345.48	347.68	449.54	8.76
MWD	87	8544.00	25.59	5.67	94	8501.20	378.01	380.22	451.93	11.22
MWD	88	8638.00	32.71	12.79	94	8583.26	423.01	425.27	459.57	8.41
MWD	89	8733.00	42.21	12.61	95	8658.59	479.26	481.57	472.25	10.00
MWD	90	8827.00	53.55	7.86	94	8721.55	547.71	550.08	484.36	12.63
MWD	91	8921.00	63.14	5.93	94	8770.82	627.01	629.43	493.88	10.35
MWD	92	9015.00	68.24	6.81	94	8809.51	712.06	714.53	503.40	5.49
MWD	93	9110.00	78.00	7.95	95	8837.06	802.05	804.57	515.08	10.34
MWD	94	9166.00	84.86	7.86	56	8845.40	856.82	859.39	522.69	12.25
MWD	95	9204.00	88.90	8.92	38	8847.47	894.33	896.92	528.23	10.99
MWD	96	9298.00	90.31	8.22	94	8848.12	987.20	989.86	542.24	1.67
MWD	97	9392.00	90.84	8.39	94	8847.17	1080.14	1082.87	555.81	0.59
MWD	98	9486.00	91.28	8.39	94	8845.44	1173.05	1175.85	569.53	0.47
MWD	99	9580.00	90.13	7.16	94	8844.28	1266.11	1268.98	582.24	1.79
MWD	100	9675.00	88.81	4.17	95	8845.16	1360.59	1363.49	591.62	3.44
MWD	101	9769.00	88.02	1.45	94	8847.76	1454.40	1457.34	596.23	3.01
MWD	102	9863.00	87.23	0.83	94	8851.65	1548.29	1551.24	598.09	1.07

MWD	103	9957.00	89.16	0.48	94	8854.61	1642.23	1645.18	599.17	2.09
MWD	104	10052.00	90.04	1.62	95	8855.28	1737.20	1740.16	600.91	1.52
MWD	105	10146.00	90.48	0.13	94	8854.85	1831.18	1834.14	602.34	1.65
MWD	106	10240.00	90.48	358.72	94	8854.06	1925.17	1928.13	601.40	1.50
MWD	107	10335.00	90.92	359.43	95	8852.90	2020.16	2023.11	599.87	0.88
MWD	108	10429.00	91.36	359.87	94	8851.03	2114.14	2117.09	599.29	0.66
MWD	109	10523.00	91.63	359.95	94	8848.58	2208.10	2211.06	599.15	0.30
MWD	110	10616.00	89.78	357.05	93	8847.44	2301.06	2304.01	596.71	3.70
MWD	111	10710.00	89.87	357.67	94	8847.72	2394.98	2397.90	592.38	0.67
MWD	112	10805.00	90.04	358.02	95	8847.80	2489.93	2492.84	588.81	0.41
MWD	113	10899.00	89.78	358.28	94	8847.95	2583.89	2586.79	585.77	0.39
MWD	114	10993.00	89.69	358.37	94	8848.38	2677.87	2680.75	583.03	0.14
MWD	115	11087.00	89.34	358.55	94	8849.18	2771.84	2774.71	580.50	0.42
MWD	116	11181.00	89.08	358.90	94	8850.47	2865.82	2868.68	578.41	0.46
MWD	117	11276.00	88.99	359.08	95	8852.07	2960.80	2963.65	576.74	0.21
MWD	118	11370.00	89.16	359.08	94	8853.59	3054.78	3057.62	575.23	0.18
MWD	119	11464.00	89.96	359.08	94	8854.31	3148.77	3151.61	573.72	0.85
MWD	120	11558.00	91.01	358.28	94	8853.52	3242.75	3245.58	571.55	1.40
MWD	121	11653.00	91.89	358.02	95	8851.11	3337.68	3340.50	568.49	0.97
MWD	122	11747.00	92.68	357.76	94	8847.36	3431.56	3434.36	565.03	0.88
MWD	123	11841.00	90.57	359.34	94	8844.70	3525.49	3528.28	562.65	2.80
MWD	124	11936.00	90.40	0.13	95	8843.89	3620.49	3623.28	562.21	0.85
MWD	125	12030.00	88.81	0.74	94	8844.54	3714.47	3717.27	562.93	1.81
MWD	126	12125.00	88.02	0.92	95	8847.17	3809.42	3812.22	564.30	0.85
MWD	127	12219.00	87.67	1.01	94	8850.70	3903.33	3906.14	565.88	0.38
MWD	128	12313.00	87.23	1.01	94	8854.89	3997.21	4000.03	567.54	0.47
MWD	129	12407.00	87.49	0.66	94	8859.22	4091.09	4093.92	568.91	0.46
MWD	130	12502.00	90.13	0.83	95	8861.19	4186.05	4188.89	570.14	2.78
MWD	131	12596.00	91.71	0.74	94	8859.68	4280.02	4282.86	571.43	1.68
MWD	132	12691.00	91.71	0.13	95	8856.85	4374.97	4377.82	572.15	0.64
MWD	133	12785.00	91.36	0.92	94	8854.33	4468.92	4471.78	573.01	0.92
MWD	134	12879.00	91.28	0.92	94	8852.16	4562.88	4565.74	574.52	0.09
MWD	135	12973.00	91.54	0.13	94	8849.85	4656.84	4659.71	575.38	0.88
MWD	136	13068.00	91.89	0.48	95	8847.01	4751.79	4754.66	575.89	0.52
MWD	137	13162.00	91.71	1.10	94	8844.05	4845.73	4848.61	577.18	0.69
MWD	138	13256.00	91.71	1.27	94	8841.25	4939.66	4942.55	579.12	0.18
MWD	139	13351.00	89.60	0.74	95	8840.16	5034.62	5037.52	580.79	2.29
MWD	140	13445.00	88.55	0.83	94	8841.68	5128.59	5131.50	582.08	1.12
MWD	141	13539.00	88.46	1.45	94	8844.13	5222.53	5225.45	583.95	0.67
MWD	142	13633.00	88.11	0.92	94	8846.94	5316.46	5319.38	585.89	0.68
MWD	143	13727.00	88.46	358.99	94	8849.76	5410.41	5413.34	585.82	2.09
MWD	144	13821.00	88.02	359.16	94	8852.65	5504.36	5507.28	584.30	0.50
MWD	145	13916.00	89.08	356.26	95	8855.05	5599.26	5602.16	580.51	3.25
MWD	146	14010.00	88.72	356.44	94	8856.85	5693.08	5695.95	574.52	0.43
MWD	147	14104.00	89.78	355.56	94	8858.08	5786.87	5789.71	567.97	1.47
MWD	148	14199.00	90.04	354.86	95	8858.23	5881.58	5884.38	560.03	0.79
MWD	149	14293.00	91.45	356.35	94	8857.01	5975.32	5978.09	552.83	2.18
MWD	150	14387.00	92.24	357.05	94	8853.99	6069.14	6071.89	547.42	1.12
MWD	151	14482.00	91.80	359.08	95	8850.64	6164.04	6166.77	544.22	2.19
MWD	152	14577.00	91.71	359.60	95	8847.73	6258.99	6261.72	543.12	0.56
MWD	153	14671.00	89.96	1.01	94	8846.36	6352.97	6355.70	543.62	2.39
MWD	154	14765.00	89.69	1.62	94	8846.64	6446.93	6449.67	545.78	0.71
MWD	155	14860.00	89.52	1.89	95	8847.30	6541.87	6544.63	548.69	0.34
MWD	156	14954.00	89.60	2.41	94	8848.02	6635.78	6638.56	552.22	0.56
MWD	157	15048.00	88.99	2.94	94	8849.18	6729.65	6732.45	556.60	0.86
MWD	158	15143.00	90.04	4.08	95	8849.98	6824.43	6827.26	562.42	1.63
MWD	159	15237.00	90.57	1.80	94	8849.48	6918.28	6921.13	567.24	2.49
MWD	160	15332.00	90.31	0.48	95	8848.75	7013.24	7016.11	569.13	1.42

MWD	161	15426.00	90.40	0.31	94	8848.17	7107.23	7110.10	569.78	0.20
MWD	162	15520.00	89.96	0.39	94	8847.87	7201.23	7204.10	570.35	0.48
MWD	163	15615.00	87.93	357.76	95	8849.62	7296.19	7299.06	568.82	3.50
MWD	164	15709.00	85.74	356.61	94	8854.81	7389.95	7392.80	564.21	2.63
MWD	165	15803.00	87.14	357.93	94	8860.65	7483.68	7486.50	559.74	2.05
MWD	166	15897.00	87.76	358.11	94	8864.83	7577.54	7580.35	556.50	0.69
MWD	167	15992.00	89.87	359.34	95	8866.80	7672.50	7675.30	554.39	2.57
MWD	168	16086.00	91.63	359.78	94	8865.57	7766.49	7769.29	553.67	1.93
MWD	169	16180.00	92.86	359.08	94	8861.88	7860.41	7863.21	552.73	1.51
MWD	170	16274.00	90.04	358.11	94	8859.51	7954.36	7957.14	550.43	3.17
MWD	171	16368.00	90.13	357.49	94	8859.37	8048.30	8051.07	546.82	0.67
MWD	172	16463.00	90.92	356.88	95	8858.50	8143.20	8145.95	542.15	1.05
MWD	173	16557.00	91.80	356.61	94	8856.26	8237.05	8239.77	536.82	0.98
MWD	174	16651.00	91.28	356.97	94	8853.74	8330.89	8333.59	531.56	0.67
MWD	175	16745.00	91.45	356.79	94	8851.50	8424.75	8427.42	526.44	0.26
MWD	176	16839.00	89.16	356.79	94	8851.00	8518.62	8521.27	521.18	2.44
MWD	177	16934.00	89.87	356.26	95	8851.80	8613.47	8616.09	515.42	0.93
MWD	178	16981.00	88.81	358.55	47	8852.34	8660.42	8663.03	513.29	5.37
MWD	179	17028.00	89.43	358.99	47	8853.07	8707.41	8710.02	512.28	1.62
MWD	180	17075.00	88.64	359.51	47	8853.86	8754.40	8757.01	511.67	2.01
MWD	181	17122.00	89.08	359.78	47	8854.79	8801.39	8804.00	511.38	1.10
MWD	182	17216.00	90.13	3.03	94	8855.44	8895.33	8897.95	513.68	3.63
MWD	183	17310.00	91.36	3.29	94	8854.22	8989.16	8991.80	518.86	1.34
MWD	184	17404.00	91.10	2.33	94	8852.20	9083.00	9085.66	523.47	1.06
MWD	185	17499.00	90.48	1.27	95	8850.89	9177.92	9180.61	526.45	1.29
MWD	186	17593.00	89.16	359.60	94	8851.19	9271.91	9274.60	527.17	2.26
MWD	187	17687.00	88.29	0.31	94	8853.28	9365.88	9368.57	527.09	1.19
MWD	188	17782.00	88.20	0.39	95	8856.19	9460.83	9463.53	527.67	0.13
MWD	189	17876.00	87.76	359.69	94	8859.50	9554.77	9557.47	527.74	0.88
MWD	190	17971.00	89.25	0.83	95	8861.98	9649.73	9652.43	528.17	1.97
MWD	191	18065.00	89.87	1.71	94	8862.70	9743.69	9746.40	530.25	1.15
MWD	192	18159.00	90.48	1.89	94	8862.41	9837.63	9840.35	533.21	0.68
MWD	193	18253.00	90.84	3.21	94	8861.33	9931.51	9934.25	537.39	1.46
MWD	194	18348.00	90.31	2.41	95	8860.38	10026.36	10029.13	542.04	1.01
MWD	195	18442.00	90.48	0.83	94	8859.73	10120.31	10123.09	544.70	1.69
MWD	196	18536.00	91.28	0.48	94	8858.29	10214.28	10217.07	545.78	0.93
MWD	197	18630.00	91.19	359.43	94	8856.26	10308.26	10311.05	545.70	1.12
MWD	198	18725.00	89.87	358.46	95	8855.38	10403.24	10406.02	543.95	1.72
MWD	199	18819.00	90.48	357.93	94	8855.09	10497.21	10499.98	540.99	0.86
MWD	200	18913.00	90.04	356.70	94	8854.67	10591.12	10593.87	536.59	1.39
MWD	201	19008.00	90.66	357.58	95	8854.09	10686.02	10688.75	531.85	1.13
MWD	202	19102.00	90.31	358.37	94	8853.29	10779.97	10782.69	528.53	0.92
MWD	203	19197.00	91.19	358.90	95	8852.05	10874.95	10877.65	526.27	1.08
MWD	204	19291.00	91.28	0.57	94	8850.02	10968.92	10971.62	525.83	1.78
MWD	205	19385.00	91.89	359.43	94	8847.42	11062.88	11065.59	525.83	1.38
MWD	206	19480.00	91.89	358.28	95	8844.29	11157.82	11160.51	523.93	1.21
MWD	207	19574.00	92.42	358.46	94	8840.75	11251.73	11254.41	521.26	0.60
MWD	208	19591.00	92.51	358.72	17	8840.02	11268.71	11271.39	520.84	1.62
PTB	209	19651.00	92.51	358.72	60	8837.40	11328.64	11331.32	519.50	0.00

C-105 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG**Section 1 - Operator and Well Information**

Submittal Type: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Workover <input type="checkbox"/> Deepening <input type="checkbox"/> Plugback <input type="checkbox"/> Different Reservoir <input type="checkbox"/> C-144 Closure Attachment <input type="checkbox"/> Other	
Operator Name: NOVO OIL & GAS NORTHERN DELAWARE, LLC	OGRID: 372920
Property Name and Well Number: CASSIUS FED COM 124H	Property Code: 336002
Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal	API Number: 30-0 15-49242
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	1,428'	FEL	EDDY
BHL	A	10	23 S	29 E		64'	FNL	850'	FEL	EDDY

Section 3 – Completion Information

Date T.D. Reached 8/8/2024	Total Measured Depth of Well 19,651	Acid Volume (bbls)	<input checked="" type="checkbox"/> Directional Survey Submitted <input type="checkbox"/> Deviation Survey Submitted
Date Rig Released 8/9/2024	Plug-Back Measured Depth 19,634	Completion Fluid Used (bbls) 620,691	Were Logs Ran (Y/N) Y
Completion Date 10/26/2024	Perforations (MD and TVD) TVD FTP:9,190 FTP:8,846 LTP: 19,596 LTP:8,840	Completion Proppant Used (lbs) 29,171,892	List Type of Logs Ran if applicable: GAMMA RAY

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID: 365429	UIC Permit/Order (UIC wells only) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Intermediate 1 Casing Action ID: 370236	NOI Recomplete Action ID (if applicable):
Intermediate 2 Casing Action ID:	NOI Plugback Action ID (if applicable):
Production Casing Action ID: 378713	Cement Squeeze Action ID (if applicable):
Tubing Action ID: 387860	All casing was pressure tested in accordance with NMAC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 1318
Date of Test 11/14/2024	Choke Size .813 inches	Flowing Tubing Pressure N/A	Casing Pressure 536
24 hr Oil (bbls) 1,626	24 hr Gas (MCF) 2,143	24 hr Water (bbls) 2,611	Oil Gravity - API 45.1
Disposition of Gas: Sold			

Section 6 – Pits

<input type="checkbox"/> A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.
<input checked="" type="checkbox"/> A Closed Loop System was used.
<input type="checkbox"/> 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

<input checked="" type="checkbox"/> I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
<input checked="" type="checkbox"/> I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
<input checked="" type="checkbox"/> 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 Regulatory Analyst	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							

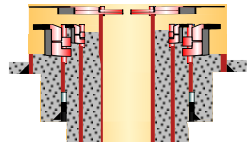
Drilling Wellbore Schematic

Well Name: CASSIUS FED COM 124H

County EDDY	State/Province NEW MEXICO	Pad Name CASSIUS 1510 X2	Wells Drilling on Pad 4
Wellbore API/UWI 30-015-49242	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 SBSG_SAND

Original Hole

Directional schematic (actual)



OD:20 in; Grade:J-55; Wt.:94.00 lb/ft; Top MD:31 ftKB; Depth MD:31-120 ftKB
OD:13 3/8 in; Grade:J-55; Wt.:54.50 lb/ft; Top MD:30 ftKB; Depth MD:30-368 ftKB

OD:9 5/8 in; Grade:J-55; Wt.:36.00 lb/ft; Top MD:30 ftKB; Depth MD:30-3,189 ftKB

OD:5 1/2 in; Grade:P-110; Wt.:20.00 lb/ft; Top MD:27 ftKB; Depth MD:27-19,636

Wellbore Sections

Section Des	Size (in)	Top Depth (ftKB)	Top Depth (TVD) (ftKB)	Btm Depth (ftKB)	Btm Depth (TVD) (ftKB)
Conductor	20	0.0	0.0	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	3,204.0	3,199.8
Production	8 3/4	3,204.0	3,199.8	9,220.0	8,847.7
Production	8 1/2	9,220.0	8,847.7	19,651.0	8,837.4

Wellbore Kick Offs & Key Depths

Type	Top Depth (ftKB)	Depth Top (TVD) (ftKB)
KOP-LP	8,298.0	8,263.4

Deepest TVD:

TVD (ftKB)	8,866.80
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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	30.1	368	5
Intermediate 1	9 5/8	9 5/8	36.00	J-55	30.1	3,189	21
Production Casing/Liner	5 1/2	5 1/2	20.00	P-110	27.2	19,636	84

Perfs

MD FTP: 9,190', MD LTP: 19,596'
TVD FTP: 8,846', TVD LTP: 8,840'

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: 30.3
Production: Lead w/720sx Class C, 3.32 yield, Tail w/2030sx Class C, 1.65 yield, TOC: 30.4

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/ocd/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 406468

ACKNOWLEDGMENTS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 406468
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	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 406468

CONDITIONS

Operator: NOVO OIL & GAS NORTHERN DELAWARE, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372920
	Action Number: 406468
	Action Type: [C-104] Completion Packet - New Well (C-104NW)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 within 10 days of BLM Approval.	4/29/2026