

98220District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

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

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address MURCHISON OIL AND GAS, LLC 7250 DALLAS PARKWAY, STE. 1400 PLANO, TX 75024		² OGRID Number 15363
		³ Reason for Filing Code/ Effective Date NW / October 2021
⁴ API Number 30 – 015-46330	⁵ Pool Name PURPLE SAGE; WOLFCAMP (GAS)	⁶ Pool Code 98220
⁷ Property Code 324981	⁸ Property Name ROCK RIDGE FEDERAL WCB	⁹ Well Number 009H

II. ¹⁰ Surface Location

Ul or lot no. H	Section 30	Township 24S	Range 29E	Lot Idn	Feet from the 2325	North/South Line NORTH	Feet from the 250	East/West line EAST	County EDDY
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¹¹ Bottom Hole Location

UL or lot no. 1	Section 30	Township 24S	Range 29E	Lot Idn	Feet from the 1001	North/South line NORTH	Feet from the 337	East/West line WEST	County EDDY
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 10/25/2021	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

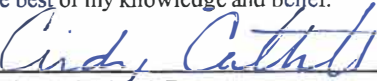
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
373554	SALT CREEK MIDSTREAM, LLC 5825 NORTH SAM HOUSTON PKWY, STE 150 HOUSTON, TX 77086	G
297115	LION OIL TRADING & TRANSPORTATION, LLC 100 E PEACH ST EL DORADO, AR 71730	O

IV. Well Completion Data

²¹ Spud Date 06/08/2021	²² Ready Date 10/27/2021	²³ TD 10,684' TVD 15,437' MD	²⁴ PBTD 10,684' TVD 15,395' MD	²⁵ Perforations 10,870'-15,385'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
16	13.375, 48# J55	381'	355, Class C		
12.25	9.625, 43.5 & 40# HCP110	9,594'	1,015, Class H 1,770, Class C		
8.5	5.5, 20# HCP110	15,422'	1,639, Class H		
5.5	2.875, 6.5# L-80	9,932'	(NOTE: tbg install 12/9/21)		

V. Well Test Data

³¹ Date New Oil 10/27/2021	³² Gas Delivery Date 10/27/2021	³³ Test Date 12/04/2021	³⁴ Test Length 24 hr	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 2700
³⁷ Choke Size 22/64	³⁸ Oil 648	³⁹ Water 1603	⁴⁰ Gas 3384		⁴¹ Test Method FLOWING

⁴² 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. Signature: 	OIL CONSERVATION DIVISION
Printed name: CINDY COTTRELL	Approved by: <i>PATRICIA MARTINEZ</i>
Title: REGULATORY COORDINATOR	Title: <i>PETROLEUM SPECIALIST</i>
E-mail Address: ccottrell@jdmii.com	Approval Date: <i>2/1/2022</i>
Date: 12/20/2021	Phone: 972-931-0700

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

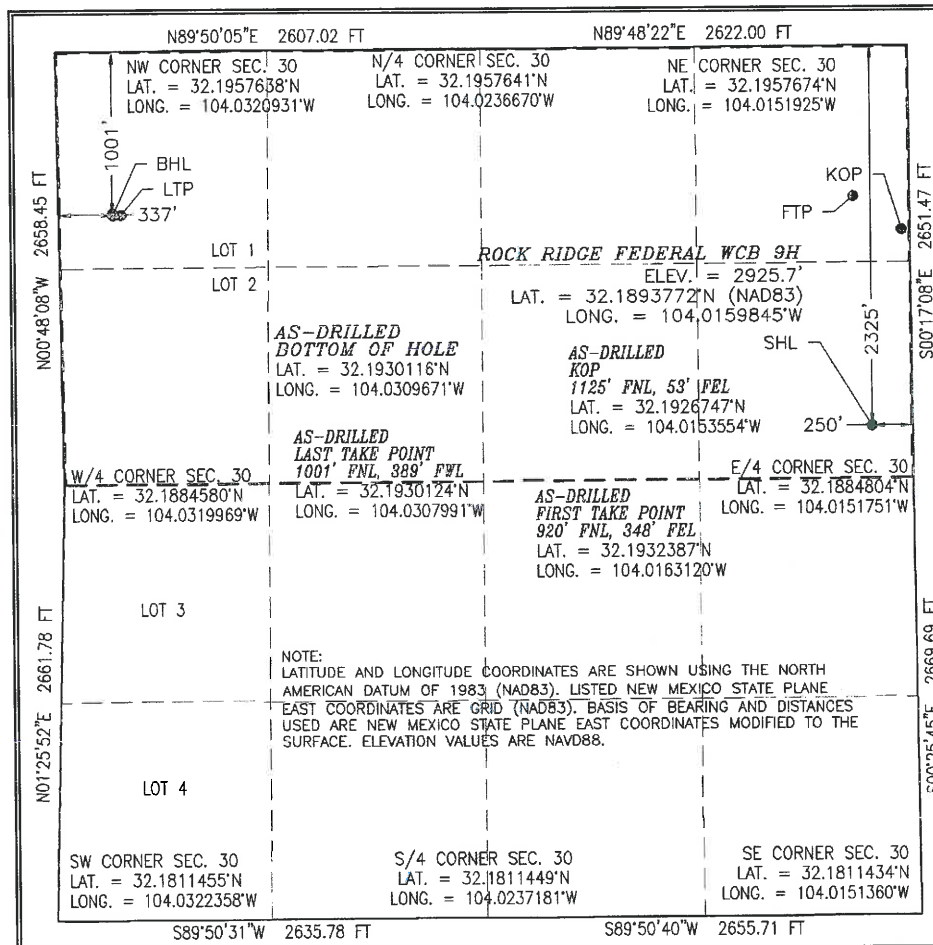
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46330	² Pool Code 98220	³ Pool Name PURPLE SAGE; WC (GAS)
⁴ Property Code 324981	⁵ Property Name ROCK RIDGE FEDERAL WCB	
⁷ OGRID No. 15363	⁸ Operator Name MURCHISON OIL AND GAS, LLC	⁶ Well Number 9H
		⁹ Elevation 2925.7

¹⁰ Surface Location									
UL or lot no. H	Section 30	Township 24 S	Range 29 E	Lot Idn	Feet from the 2325	North/South line NORTH	Feet from the 250	East/West line EAST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. 1	Section 30	Township 24 S	Range 29 E	Lot Idn	Feet from the 1001	North/South line NORTH	Feet from the 337	East/West line WEST	County EDDY
¹² Dedicated Acres 320		¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ Order No.				

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.



¹⁷ OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or released 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	
Signature <i>[Signature]</i>	Date 10/25/21
Printed Name Gary R. Cooper, VP Operations	
E-mail Address rcooper@jdmii.com	
¹⁸ SURVEYOR CERTIFICATION	
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.	
Date of Survey OCTOBER 15, 2021	
Signature and Seal of Professional Surveyor: <i>[Signature]</i>	
Certificate Number: 12797	

Intent ☐ As Drilled ☒

API #

Operator Name:	Property Name:	Well Number
MURCHISON OIL AND GAS, LLC	ROCK RIDGE FEDERAL WCB	9H

Kick Off Point (KOP)

UL A	Section 30	Township 24S	Range 29E	Lot	Feet 1125	From N/S NORTH	Feet 53	From E/W EAST	County EDDY
Latitude 32.1926747					Longitude 104.0153554			NAD 83	

First Take Point (FTP)

UL A	Section 30	Township 24S	Range 29E	Lot	Feet 920	From N/S NORTH	Feet 348	From E/W EAST	County EDDY
Latitude 32.1932387					Longitude 104.0163120			NAD 83	

Last Take Point (LTP)

UL	Section 30	Township 24S	Range 29E	Lot 1	Feet 1001	From N/S NORTH	Feet 389	From E/W WEST	County EDDY
Latitude 32.1930124					Longitude 104.0307991			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018



**Murchison Oil and Gas, LLC
Eddy County, New Mexico (NAD 83)
30-015-4633
Rock Ridge Federal WCB 9H
Wellbore 1**

**MS MWD
Certified Survey Report
31 August 2021**

Field	Eddy County, New Mexico (NAD 83) - Murchison Oil and Gas, LLC		
CRS	US-SPC83 / New Mexico Eastern Zone		
Apply Scale Factor	NO	Scale Factor	0.9999090909
System Datum	Mean Sea Level	Depth Datum->MSL	2950.69 UsFt

Well	Rock Ridge Federal WCB 9H		
Local North	49.12 UsFt	Local East	-1.27 UsFt
Map Northing	432774.78 US survey foot	Map Easting	639509.34 US survey foot
Latitude	32° 11' 21.75792" N	Longitude	104° 0' 57.54420" W
Depth Datum / Rig	WELL-Latshaw 11 / Latshaw 11	Datum Elevation	2950.70 UsFt
GL Elevation	2925.70 UsFt		
Grid Convergence	0.169		

Well bore	Rock Ridge Federal WCB 9H - Wellbore 1		
Magnetic Model	User defined	Date	31/05/2021
Total Field (nT)	47675.70	Dip Angle (°)	59.850
Declination (°)	6.767		
VS Origin	User Defined	VS Azimuth	269.82
VS Origin NS	0.00 UsFt	VS Origin EW	0.00 UsFt

Survey Program	MS MWD		
Depth From (UsFt)	Depth To (UsFt)	Survey	Survey Tool
0.00	15437.03	MS MWD	MWD+HRGM

Survey Report									
MD	Inc	Azi	TVD	NS	EW	VS	DLS	BR	TR
UsFt	°	°	UsFt	UsFt	UsFt	UsFt	(°/100 UsFt)	(°/100 UsFt)	(°/100 UsFt)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.00	0.40	358.30	130.00	0.45	-0.01	0.01	0.31	0.31	1.31
221.00	1.00	311.10	220.99	1.29	-0.62	0.62	0.86	0.66	-51.87
331.00	1.40	256.60	330.97	1.61	-2.65	2.65	1.05	0.36	-49.55
497.00	1.10	237.10	496.93	0.28	-5.96	5.96	0.31	-0.18	-11.75
587.00	1.10	246.00	586.92	-0.54	-7.48	7.48	0.19	0.00	9.89
677.00	1.00	248.00	676.90	-1.19	-8.99	9.00	0.12	-0.11	2.22
768.00	1.50	300.30	767.88	-0.89	-10.76	10.76	1.31	0.55	57.47
859.00	1.70	305.80	858.85	0.51	-12.88	12.88	0.28	0.22	6.04
920.00	1.60	299.90	919.82	1.46	-14.35	14.35	0.32	-0.16	-9.67
1016.00	1.40	308.30	1015.79	2.85	-16.44	16.43	0.31	-0.21	8.75
1111.00	1.10	303.90	1110.77	4.08	-18.10	18.09	0.33	-0.32	-4.63
1206.00	1.00	305.10	1205.75	5.07	-19.54	19.52	0.11	-0.11	1.26
1301.00	1.50	328.40	1300.73	6.60	-20.87	20.85	0.74	0.53	24.53
1397.00	3.20	349.60	1396.64	10.31	-22.01	21.98	1.96	1.77	22.08
1491.00	5.20	0.70	1490.39	17.15	-22.43	22.38	2.29	2.13	11.81
1585.00	7.50	3.50	1583.81	27.53	-22.01	21.92	2.47	2.45	2.98
1680.00	7.70	3.80	1677.97	40.07	-21.21	21.08	0.21	0.21	0.32
1776.00	7.30	4.70	1773.15	52.57	-20.28	20.11	0.43	-0.42	0.94
1871.00	7.00	4.90	1867.41	64.35	-19.29	19.09	0.32	-0.32	0.21
1966.00	6.40	4.00	1961.76	75.40	-18.43	18.19	0.64	-0.63	-0.95
2061.00	5.90	7.80	2056.22	85.52	-17.40	17.13	0.68	-0.53	4.00
2156.00	6.90	10.50	2150.62	95.97	-15.69	15.39	1.10	1.05	2.84
2252.00	7.90	9.10	2245.82	108.15	-13.60	13.26	1.06	1.04	-1.46
2347.00	7.70	10.30	2339.94	120.86	-11.43	11.05	0.27	-0.21	1.26
2443.00	7.20	14.30	2435.13	133.02	-8.79	8.37	0.75	-0.52	4.17
2538.00	7.00	13.50	2529.40	144.42	-5.97	5.52	0.23	-0.21	-0.84
2633.00	7.40	1.30	2623.66	156.16	-4.48	3.99	1.66	0.42	-12.84
2728.00	7.60	356.80	2717.85	168.55	-4.69	4.16	0.65	0.21	4.74
2823.00	7.30	356.90	2812.05	180.85	-5.37	4.80	0.32	-0.32	0.11
2918.00	7.00	357.00	2906.31	192.66	-6.00	5.39	0.32	-0.32	0.11
3013.00	6.70	356.70	3000.63	203.97	-6.62	5.98	0.32	-0.32	-0.32
3109.00	6.50	357.70	3095.99	214.99	-7.16	6.48	0.24	-0.21	1.04
3203.00	7.60	355.30	3189.28	226.50	-7.88	7.17	1.21	1.17	-2.55
3297.00	8.00	355.70	3282.41	239.22	-8.88	8.13	0.43	0.43	0.43
3393.00	7.60	357.80	3377.52	252.23	-9.63	8.84	0.51	-0.42	2.19
3488.00	7.10	357.40	3471.74	264.37	-10.14	9.30	0.53	-0.53	-0.42
3583.00	7.60	356.50	3565.96	276.51	-10.78	9.92	0.54	0.53	-0.95
3677.00	7.50	357.80	3659.15	288.84	-11.40	10.49	0.21	-0.11	1.38
3772.00	7.10	357.70	3753.38	300.90	-11.87	10.93	0.42	-0.42	-0.11
3867.00	6.70	357.40	3847.69	312.30	-12.36	11.38	0.42	-0.42	-0.32
3963.00	6.50	356.70	3943.05	323.32	-12.93	11.91	0.22	-0.21	-0.73
4058.00	6.30	357.20	4037.46	333.90	-13.49	12.44	0.22	-0.21	0.53
4153.00	5.90	357.10	4131.92	343.98	-13.99	12.91	0.42	-0.42	-0.11
4248.00	6.80	358.00	4226.34	354.48	-14.44	13.32	0.95	0.95	0.95
4343.00	7.50	358.30	4320.60	366.30	-14.82	13.67	0.74	0.74	0.32
4438.00	6.80	359.20	4414.86	378.12	-15.08	13.89	0.75	-0.74	0.95
4533.00	7.50	358.60	4509.12	389.94	-15.31	14.08	0.74	0.74	-0.63
4628.00	7.90	0.30	4603.26	402.67	-15.43	14.16	0.48	0.42	1.79
4723.00	7.40	1.70	4697.42	415.31	-15.21	13.91	0.56	-0.53	1.47
4819.00	7.10	2.30	4792.65	427.42	-14.79	13.45	0.32	-0.31	0.62

Survey Report

MD UsFt	Inc °	Azi °	TVD UsFt	NS UsFt	EW UsFt	VS UsFt	DLS (°/100 UsFt)	BR (°/100 UsFt)	TR (°/100 UsFt)
4914.00	6.70	4.50	4886.96	438.81	-14.12	12.74	0.50	-0.42	2.32
5009.00	6.30	6.30	4981.35	449.51	-13.11	11.70	0.47	-0.42	1.89
5104.00	7.10	8.40	5075.70	460.50	-11.68	10.24	0.88	0.84	2.21
5200.00	7.20	7.90	5170.95	472.33	-9.99	8.50	0.12	0.10	-0.52
5295.00	6.80	9.10	5265.25	483.78	-8.28	6.76	0.45	-0.42	1.26
5391.00	6.40	9.60	5360.61	494.67	-6.49	4.94	0.42	-0.42	0.52
5486.00	5.90	10.70	5455.06	504.69	-4.70	3.11	0.54	-0.53	1.16
5582.00	6.80	6.70	5550.47	515.18	-3.12	1.50	1.04	0.94	-4.17
5677.00	7.80	3.10	5644.70	527.20	-2.12	0.46	1.16	1.05	-3.79
5773.00	7.90	2.60	5739.80	540.30	-1.46	-0.23	0.13	0.10	-0.52
5868.00	7.50	3.70	5833.95	553.01	-0.77	-0.97	0.45	-0.42	1.16
5962.00	7.30	4.60	5927.16	565.08	0.11	-1.88	0.25	-0.21	0.96
6057.00	7.10	4.10	6021.41	576.96	1.01	-2.82	0.22	-0.21	-0.53
6153.00	7.00	4.50	6116.69	588.70	1.89	-3.74	0.12	-0.10	0.42
6247.00	7.10	1.50	6209.98	600.22	2.49	-4.38	0.41	0.11	-3.19
6343.00	7.00	357.80	6305.25	612.00	2.43	-4.35	0.48	-0.10	3.85
6438.00	6.60	359.60	6399.58	623.24	2.17	-4.12	0.48	-0.42	1.89
6533.00	6.10	1.20	6494.00	633.75	2.23	-4.22	0.56	-0.53	1.68
6628.00	6.50	6.80	6588.43	644.13	2.98	-5.00	0.77	0.42	5.89
6724.00	6.90	6.50	6683.77	655.26	4.27	-6.33	0.42	0.42	-0.31
6818.00	6.20	8.40	6777.16	665.89	5.65	-7.74	0.78	-0.74	2.02
6913.00	6.50	6.60	6871.58	676.31	7.02	-9.14	0.38	0.32	-1.89
7009.00	7.30	359.80	6966.88	687.80	7.62	-9.78	1.19	0.83	7.08
7104.00	7.90	0.20	7061.05	700.37	7.62	-9.82	0.63	0.63	0.42
7200.00	7.70	0.50	7156.16	713.40	7.70	-9.94	0.21	-0.21	0.31
7296.00	7.00	0.70	7251.37	725.68	7.83	-10.11	0.73	-0.73	0.21
7391.00	8.20	2.70	7345.53	738.23	8.22	-10.54	1.29	1.26	2.11
7486.00	8.90	9.00	7439.48	752.26	9.69	-12.05	1.23	0.74	6.63
7582.00	9.50	11.30	7534.24	767.36	12.40	-14.81	0.73	0.62	2.40
7677.00	9.50	11.40	7627.94	782.74	15.49	-17.95	0.02	0.00	0.11
7771.00	9.40	13.30	7720.66	797.81	18.79	-21.30	0.35	-0.11	2.02
7867.00	9.90	16.10	7815.31	813.37	22.88	-25.44	0.71	0.52	2.92
7962.00	11.00	18.40	7908.73	829.82	28.01	-30.61	1.24	1.16	2.42
8057.00	11.20	21.20	8001.95	847.02	34.20	-36.87	0.61	0.21	2.95
8152.00	10.50	26.50	8095.26	863.37	41.40	-44.12	1.28	-0.74	5.58
8247.00	10.80	26.00	8188.62	879.11	49.17	-51.93	0.33	0.32	-0.53
8342.00	10.90	25.80	8281.92	895.20	56.98	-59.79	0.11	0.11	-0.21
8437.00	10.90	25.70	8375.21	911.38	64.78	-67.65	0.02	0.00	-0.11
8533.00	11.00	26.50	8469.46	927.76	72.81	-75.72	0.19	0.10	0.83
8628.00	10.80	27.50	8562.75	943.76	80.96	-83.92	0.29	-0.21	1.05
8723.00	11.40	27.30	8655.97	960.00	89.38	-92.39	0.63	0.63	-0.21
8819.00	11.20	24.90	8750.11	976.89	97.65	-100.72	0.53	-0.21	-2.50
8914.00	11.20	21.20	8843.30	993.86	104.87	-108.00	0.76	0.00	-3.89
9009.00	11.10	21.90	8936.51	1010.95	111.62	-114.80	0.18	-0.11	0.74
9104.00	10.90	23.50	9029.76	1027.67	118.61	-121.84	0.38	-0.21	1.68
9200.00	10.30	23.70	9124.12	1043.85	125.68	-128.96	0.63	-0.62	0.21
9295.00	10.10	25.10	9217.62	1059.17	132.63	-135.96	0.34	-0.21	1.47
9391.00	9.70	26.50	9312.19	1074.03	139.81	-143.18	0.49	-0.42	1.46
9486.00	9.80	28.40	9388.08	1085.60	145.82	-149.23	0.44	0.13	2.47
9553.00	9.80	28.60	9471.84	1098.31	152.72	-156.17	0.04	0.00	0.24
9665.00	9.30	28.90	9582.29	1114.61	161.66	-165.16	0.45	-0.45	0.27
9758.00	8.90	25.50	9674.12	1127.68	168.39	-171.93	0.72	-0.43	-3.66
9853.00	8.40	21.90	9768.04	1140.75	174.14	-177.72	0.78	-0.53	-3.79
9947.00	7.70	20.30	9861.11	1153.03	178.89	-182.51	0.78	-0.74	-1.70
10042.00	9.50	17.50	9955.04	1166.47	183.45	-187.12	1.94	1.89	-2.95
10137.00	10.10	13.30	10048.65	1182.06	187.73	-191.44	0.98	0.63	-4.42
10232.00	11.10	9.60	10142.03	1199.18	191.17	-194.93	1.27	1.05	-3.89
10327.00	24.40	352.60	10232.36	1227.80	190.16	-194.02	14.88	14.00	17.89
10422.00	35.60	337.80	10314.61	1273.07	177.13	-181.13	14.05	11.79	-15.58
10517.00	44.00	320.10	10387.77	1324.24	145.35	-149.51	14.78	8.84	-18.63
10612.00	47.60	299.00	10454.37	1366.82	93.19	-97.49	16.32	3.79	-22.21
10707.00	51.00	279.60	10516.66	1390.11	25.73	-30.09	15.85	3.58	-20.42
10803.00	54.40	276.50	10574.83	1400.76	-49.87	45.46	4.37	3.54	-3.23
10851.00	57.00	273.20	10601.88	1404.09	-89.37	84.95	7.85	5.42	-6.88
10898.00	59.10	271.50	10626.75	1405.72	-129.21	124.79	5.42	4.47	-3.62
10947.00	60.50	265.50	10651.42	1404.60	-171.51	167.10	10.96	2.86	-12.24
10994.00	62.50	261.30	10673.85	1399.84	-212.53	208.13	8.93	4.26	-8.94
11042.00	66.00	259.30	10694.70	1392.54	-255.13	250.75	8.20	7.29	-4.17
11089.00	70.70	260.70	10712.04	1384.97	-298.14	293.79	10.38	10.00	2.98
11137.00	74.90	261.60	10726.23	1377.92	-343.44	339.11	8.93	8.75	1.88
11184.00	82.70	264.80	10735.35	1372.48	-389.18	384.86	17.89	16.60	6.81
11279.00	89.00	266.50	10742.23	1365.30	-483.60	479.31	6.87	6.63	1.79
11374.00	91.50	266.60	10741.81	1359.59	-578.42	574.15	2.63	2.63	0.11
11470.00	91.00	267.40	10739.72	1354.57	-674.27	670.01	0.98	-0.52	0.83
11565.00	90.20	267.40	10738.72	1350.26	-769.16	764.92	0.84	-0.84	0.00
11659.00	88.50	267.70	10739.79	1346.24	-863.07	858.83	1.84	-1.81	0.32
11754.00	91.50	268.10	10739.79	1342.76	-957.99	953.77	3.19	3.16	0.42
11849.00	91.70	268.50	10737.14	1339.94	-1052.91	1048.70	0.47	0.21	0.42

Survey Report

MD UsFt	Inc °	Azi °	TVD UsFt	NS UsFt	EW UsFt	VS UsFt	DLS (°/100 UsFt)	BR (°/100 UsFt)	TR (°/100 UsFt)
11944.00	91.30	268.30	10734.65	1337.29	-1147.84	1143.64	0.47	-0.42	-0.21
12039.00	90.80	267.70	10732.91	1333.97	-1242.77	1238.57	0.82	-0.53	-0.63
12134.00	90.20	266.70	10732.08	1329.33	-1337.65	1333.47	1.23	-0.63	-1.05
12228.00	90.20	267.60	10731.75	1324.66	-1431.53	1427.37	0.96	0.00	0.96
12323.00	91.40	270.30	10730.43	1322.92	-1526.50	1522.33	3.11	1.26	2.84
12418.00	92.50	269.30	10727.19	1322.59	-1621.44	1617.28	1.56	1.16	-1.05
12513.00	93.60	268.40	10722.14	1320.68	-1716.28	1712.13	1.50	1.16	-0.95
12609.00	92.20	270.10	10717.28	1319.43	-1812.15	1807.99	2.29	-1.46	1.77
12704.00	90.00	269.80	10715.46	1319.35	-1907.12	1902.97	2.34	-2.32	-0.32
12798.00	89.50	269.10	10715.87	1318.44	-2001.12	1996.97	0.92	-0.53	-0.74
12894.00	89.20	268.30	10716.96	1316.27	-2097.09	2092.94	0.89	-0.31	-0.83
12989.00	90.30	270.30	10717.37	1315.11	-2192.07	2187.93	2.40	1.16	2.11
13019.00	90.60	270.60	10717.14	1315.34	-2222.07	2217.93	1.41	1.00	1.00
13114.00	90.40	269.50	10716.31	1315.43	-2317.06	2312.92	1.18	-0.21	-1.16
13209.00	89.80	268.80	10716.14	1314.02	-2412.05	2407.91	0.97	-0.63	-0.74
13304.00	89.40	269.00	10716.80	1312.19	-2507.03	2502.90	0.47	-0.42	0.21
13399.00	91.30	269.30	10716.22	1310.78	-2602.02	2597.88	2.02	2.00	0.32
13494.00	90.90	269.90	10714.40	1310.12	-2696.99	2692.87	0.76	-0.42	0.63
13589.00	90.20	270.30	10713.49	1310.29	-2791.99	2787.86	0.85	-0.74	0.42
13684.00	91.80	270.90	10711.83	1311.28	-2886.97	2882.83	1.80	1.68	0.63
13779.00	91.80	271.70	10708.85	1313.43	-2981.89	2977.75	0.84	0.00	0.84
13874.00	91.40	270.10	10706.19	1314.93	-3076.84	3072.70	1.74	-0.42	-1.68
13970.00	91.20	270.00	10704.01	1315.01	-3172.82	3168.67	0.23	-0.21	-0.10
14065.00	91.40	270.30	10701.86	1315.26	-3267.79	3263.64	0.38	0.21	0.32
14161.00	91.30	270.90	10699.60	1316.26	-3363.76	3359.61	0.63	-0.10	0.62
14256.00	90.90	270.10	10697.77	1317.09	-3458.74	3454.58	0.94	-0.42	-0.84
14351.00	90.80	269.60	10696.36	1316.84	-3553.73	3549.57	0.54	-0.11	-0.53
14445.00	90.80	269.60	10695.05	1316.19	-3647.72	3643.56	0.00	0.00	0.00
14541.00	90.00	269.40	10694.38	1315.35	-3743.71	3739.56	0.86	-0.83	-0.21
14634.00	90.60	269.20	10693.90	1314.21	-3836.70	3832.55	0.68	0.65	-0.22
14729.00	91.30	269.30	10692.32	1312.97	-3931.68	3927.53	0.74	0.74	0.11
14825.00	91.30	269.10	10690.14	1311.63	-4027.64	4023.50	0.21	0.00	-0.21
14920.00	90.90	269.90	10688.32	1310.80	-4122.62	4118.48	0.94	-0.42	0.84
15015.00	90.30	270.00	10687.32	1310.72	-4217.62	4213.48	0.64	-0.63	0.11
15111.00	90.40	270.10	10686.74	1310.80	-4313.61	4309.48	0.15	0.10	0.10
15206.00	90.40	269.60	10686.07	1310.55	-4408.61	4404.47	0.53	0.00	-0.53
15302.00	90.50	269.80	10685.32	1310.05	-4504.61	4500.47	0.23	0.10	0.21
15363.00	90.60	269.50	10684.73	1309.68	-4565.60	4561.47	0.52	0.16	-0.49
15437.00	90.60	269.50	10683.96	1309.03	-4639.60	4635.46	0.00	0.00	0.00 PTB



3335 Pollok Drive
Conroe, Texas 77303
936.442.2500 (office)
www.msdir.com

MS Directional LLC Survey Data Certification

MS Directional LLC Job Number: MSMO-84203
Survey Type: MWD
Operating Company: Murchison Oil and Gas, LLC
Well Name and Number: Rock Ridge Federal WCB 9H
Location: Eddy, New Mexico
API Number: 30-015-4633
Tie In Depth: 0.00
Surveyed Depths: 130.00' - 15363.00'
Projected TD Survey: 15437.00'
Dates Performed: 06/06/2021 - 08/26/2021

To the best of my knowledge, I certify the following:

1. The data is true, correct and complete and within the limitations of the tool set forth by MS Directional LLC
2. I am authorized and qualified to make this report; and
3. I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Directional LLC

MWD Surveyor Name: Chris Russell

MWD Operations Manager: Charles Davis

Signature:

A handwritten signature in black ink, appearing to read "CWD" followed by a stylized flourish.

Date: 08/31/2021

Email: charles.davis@msdir.com

Well Name: ROCK RIDGE FEDERAL WCB	Well Location: T24S / R29E / SEC 30 / SENE / 32.1893772 / -104.0159845	County or Parish/State: EDDY / NM
Well Number: 9H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM107384	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546330	Well Status: Drilling Well	Operator: MURCHISON OIL & GAS LLC

Subsequent Report

Sundry ID: 2643794

Type of Submission: Subsequent Report

Type of Action: Hydraulic Fracturing

Date Sundry Submitted: 11/10/2021

Time Sundry Submitted: 08:28

Date Operation Actually Began: 09/05/2021

Actual Procedure: 9/5 - 10/14/21: Perforate and fracture treat from 10,870 ft. to 15,385 ft. in 22 stages; 6 clusters per stage, 48 perms per stage, total 1,044, 0.4 in. holes. Used 10,903,164 lbs sand and 340,757 bbls treated water. 10/19 - 20/21: Milled plugs and circulated hole clean. 10/27/21: Started flowing well back; turned well over to production.

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: CINDY COTTRELL

Signed on: NOV 10, 2021 08:26 AM

Name: MURCHISON OIL & GAS LLC

Title: Regulatory Coordinator

Street Address: 7250 Dallas Parkway, Ste. 1400

City: Plano

State: TX

Phone: (972) 931-0700

Email address: ccottrell@jdmii.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

Well Location: T24S / R29E / SEC 30 /
SENE / 32.1893772 / -104.0159845**County or Parish/State:** EDDY /
NM**Well Number:** 9H**Type of Well:** CONVENTIONAL GAS
WELL**Allottee or Tribe Name:****Lease Number:** NMNM107384**Unit or CA Name:****Unit or CA Number:****US Well Number:** 3001546330**Well Status:** Drilling Well**Operator:** MURCHISON OIL &
GAS LLC**BLM Point of Contact****BLM POC Name:** Jonathon W Shepard**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5752345972**BLM POC Email Address:** jshepard@blm.gov**Disposition:** Accepted**Disposition Date:** 12/01/2021**Signature:** Jonathon Shepard

CONFIDENTIAL

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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 64874

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 64874
	Action Type: [C-103] Sub. General Sundry (C-103Z)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	Going forward this should be submitted as a C-103 Sub. (Re) Completion Sundry (C-103T); also include Production pressure test, Tubing, PBTD, and Rig Release date.	1/19/2022



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print Report

01/06/2022

Operator Name MURCHISON OIL & GAS LLC SHL Lot H Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 9H	US Well Number 3001546330
	County EDDY	State NM	Lease Number(s) NMNM107384, NMNM107384
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name ROCK RIDGE	Well Pad Number 3	ID 10400039899

Section 1 - General

Well Completion Report Id: 81309

Submission Date: N/A until DB Work

BLM Office: Carlsbad Field Office

User: Cindy Cottrell

Title: Regulatory Coordinator

Federal/Indian: FEDERAL

Lease Number: NMNM107384

Lease Acres:

Agreement in place?: NO

Federal or Indian Agreement:

Agreement Number:

Agreement Name:

Keep this Well Completion Report confidential?: YES

APD Operator: MURCHISON OIL & GAS
LLC

Section 2 - Well Information

Field/Pool or Exploratory: Field/Pool

Pool Name:

Field Name: PURPLE SAGE

Well Type: CONVENTIONAL GAS WELL

Spud Date: 06-06-2021

Date Total Measured Depth Reached: 08-25-2021

Drill & Abandon or Ready To Produce: READY TO PRODUCE

Well Class: HORIZONTAL

Section 3 - Geologic Formations

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral Resources
QUATERNARY	ALLUVIUM		2926	0	0	USEABLE WATER	

Operator Name MURCHISON OIL & GAS LLC SHL Lot H Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 9H	US Well Number 3001546330
	County EDDY	State NM	Lease Number(s) NMNM107384, NMNM107384
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name ROCK RIDGE	Well Pad Number 3	ID 10400039899

Section 3 - Geologic Formations

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral Resources
RUSTLER	DOLOMITE, GYPSUM, SILTSTONE		2646	280	280	NONE	
TOP SALT	SALT		1887	1039	1039	OTHER	Salt
CASTILE	ANHYDRITE		931	1995	1995	NONE	
BASE OF SALT	SALT		136	2790	2790	OTHER	Salt
BELL CANYON	LIMESTONE, SANDSTONE, SHALE		139	2848	2849	NONE	
CHERRY CANYON	SANDSTONE		-701	3627	3628	NATURAL GAS, OIL	
BRUSHY CANYON	SANDSTONE		-2015	4941	4942	NATURAL GAS, OIL	
BONE SPRING	LIMESTONE		-3587	6513	6514	NATURAL GAS, OIL	
BONE SPRING 1ST	SANDSTONE		-4551	7477	7479	NATURAL GAS, OIL	
BONE SPRING 2ND	SANDSTONE		-5338	8264	8268	NATURAL GAS, OIL	
BONE SPRING 3RD	SANDSTONE		-6447	9373	9380	NATURAL GAS, OIL	
WOLFCAMP	LIMESTONE, SANDSTONE, SHALE		-6810	9736	9744	NATURAL GAS, OIL	

Completion and Completed Intervals

Operator Name MURCHISON OIL & GAS LLC SHL Lot H Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 9H	US Well Number 3001546330
	County EDDY	State NM	Lease Number(s) NMNM107384, NMNM107384
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name ROCK RIDGE	Well Pad Number 3	ID 10400039899

Completion Data

Status of Interval	Number of Holes	Perforation Size	Interval Perforated?	Interval Bottom (MD)	Interval Top (MD)	Formation	Date First Produced	Date Completed	Completion Status	Describe Well Completion Type	Well Completion Type	Lease Number	Case Number	Interval Number	Completion Code	Wellbore Code
ISOLATED	1044	.4	Y	15385	10870	WOLFCA MP	10-26-2021	10-27-2021	PGW		NEW	NMNM107384	NMNM107384	1	S1	00

Treatment Data

Treatment Remarks	Total Proppant (lbs)	Toile Fluid (bbls)	Treatment Type	Interval Treated?	Interval Number	Completion Code	Wellbore Code
Used 10,903,164 lbs sand		340757	FRAC	Y	1	S1	00

Production Data

Describe Disposition	Disposition of Gas	Describe Production	Production Method	Gas Gravity	API Oil Gravity	Interval Number	Completion Code	Wellbore Code
	SOLD		FLows FROM WELL			1	S1	00

Test Data

Casing Pressure (psi)	Tubing Pressure Shut-In (psi)	Tubing Pressure	Choke Size	Gas-Oil Ratio (SCF/Bbl)	24-Hour Rate Water(BWPD)	24-Hour Rate Gas (MCF)	24-Hour Rate Oil (bbls)	Hours Tested	Test Date	Interval Number	Completion Code	Wellbore Code

Operator Name MURCHISON OIL & GAS LLC SHL Lot H Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 9H	US Well Number 3001546330
	County EDDY	State NM	Lease Number(s) NMNM107384, NMNM107384
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name ROCK RIDGE	Well Pad Number 3	ID 10400039899

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	12/04/2021	24	648	3384	1603	5222	22/64	0	0	2700

Well Location

Survey Type: RECTANGULAR

Survey Number:

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum:

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.1893772	-104.0159845	2926	FEDERAL	NMNM107384				2325	FNL	250	FEL	24S	29E	30	Lot H
KOP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.1926747	-104.0153554	-7216	FEDERAL	NMNM107384				1125	FNL	53	FEL	24S	29E	30	Lot A
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.1932387	-104.016312	-7694	FEDERAL	NMNM107384				920	FNL	348	FEL	24S	29E	30	Lot A
EXIT Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.1930124	-104.0307991	-7759	FEDERAL	NMNM107384				1001	FNL	389	FWL	24S	29E	30	Lot 1

Operator Name MURCHISON OIL & GAS LLC SHL Lot H Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 9H	US Well Number 3001546330
	County EDDY	State NM	Lease Number(s) NMNM107384, NMNM107384
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name ROCK RIDGE	Well Pad Number 3	ID 10400039899

Aliquot/Lot/Tract	Section	Range	Township	EW-Indicator	EW-Foot	NS-Indicator	NS-Foot	Plug Type	Plug MD (ft)	Plug TVD (ft)	Lease Number	Lease Type	Elevation (MSL)	Longitude	Latitude	County	Meridian	State	
Lot 1	30	29E	24S	FWL	337	FNL	1001				NMNM107384	FEDERAL	-7758	104.0309671	32.193016	EDDY	NEW MEXICO PRINCIPAL	NEW MEXICO	BHL Wellbore 00

Casing, Liner and Tubing

Casing and Liner

Amount Pulled (ft)	Other Joint	Joint	Describe Other Casing Grade	Casing Grade	Wt(lbs/ft)	Casing Size	Bottom Setting Depth (MD)	Top Setting Depth (MD)	Hole Size	Casing String Type	Wellbore Code
		ST&C		J-55	48	13.375	371	0	16	SURFACE	00
		LT&C		HCP-110	40	9.625	6500	0	12.25	INTERMEDIATE	00
		LT&C		HCP-110	43.5	9.625	9594	6500	12.25	INTERMEDIATE	00
		BUTT		HCP-110	20	5.5	15422	0	8.5	PRODUCT ION	00

Operator Name MURCHISON OIL & GAS LLC SHL Lot H Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 9H	US Well Number 3001546330
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Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name ROCK RIDGE	Well Pad Number 3	ID 10400039899

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume (bbls)
00	SURFACE		Class C	355	1.34	0					84.7
00	INTERMEDIATE	3000	Class H	840	2.91	2500	Class H	175	1.18	9054	472.1
00	INTERMEDIATE	3000	Class C	1295	2.17	0	Class C	475	1.32	2500	612.2
00	PRODUCTION		Class H	474	2.92	5000	Class H	1165	1.34	10237	524.5

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00									

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report Completed?	Wellbore Diagram
00	YES	NO	NO	YES	NO	NO

Operator Name MURCHISON OIL & GAS LLC SHL Lot H Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB County EDDY	Well Number 9H State NM	US Well Number 3001546330 Lease Number(s) NMNM107384, NMNM107384
Well Type CONVENTIONAL GAS WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name ROCK RIDGE	Well Pad Number 3	ID 10400039899

Operator Certification

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: MURCHISON OIL & GAS LLC

Signed By: Cindy Cottrell

Title: Regulatory Coordinator

Signed on: 12/09/2021

Street Address: 7250 Dallas Parkway, Ste. 1400

City: Plano

State: TX

Zip: 75024

Phone: (972)931-0700

Email address: ccottrell@jdmii.com

Field Representative

Representative Name: Luke Pumphrey

Street Address: 7250 Dallas Parkway, Ste 1400

City: Plano

State: TX

Zip: 75024

Phone: (972)931-0700

Extension: 125

Email address: lpumphrey@jdmii.com

Attachments

Rock_Ridge_Federal_WCB_9H_1in_MD_20211209124750.pdf

Rock_Ridge_Federal_WCB_9H___Certified_Surveys_20211209124825.pdf

ROCK_RIDGE_FEDERAL_WCB_9H_AS_DRILLED_20211209130005.pdf

District I

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1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 73675

ACKNOWLEDGMENTS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 73675
	Action Type: [C-104] Completion Packet (C-104C)

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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 73675

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 73675
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	2/1/2022