

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 -- 015-46332	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 011H

II. ¹⁰ Surface Location

UL or lot no. H	Section 30	Township 24S	Range 29E	Lot Idn	Feet from the 2365	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 2	Section 30	Township 24S	Range 29E	Lot Idn	Feet from the 2299	North/South line NORTH	Feet from the 345	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

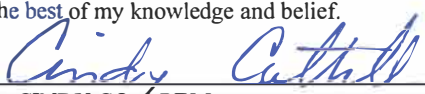
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
373554	SALT CREEK MIDSTREAM, LLC 5825 NORTH SAM HOUSTON PKWY, STE 150 HOUSTON, TX 77086	G
297115	LION OIL TRADING & TRANSPORTATION, LLC 100 E PEACH ST EL DORADO, AR 71730	O

IV. Well Completion Data

²¹ Spud Date 07/07/2021	²² Ready Date 10/28/2021	²³ TD 10,682' TVD 15,266' MD	²⁴ PBTD 10682' TVD 15226' MD	²⁵ Perforations 10,804'-15,215'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
16	13.375, 48# J55	370'	355, Class C		
12.25	9.625, 43.5 & 40# HCP110	9,528'	1,015, Class H 1,770, Class C		
8.5	5.5, 20# HCP110	15,252'	1,625, Class H		
5.5	2.875, 6.5# L-80	9,995'			

V. Well Test Data

³¹ Date New Oil 10/30/2021	³² Gas Delivery Date 10/30/2021	³³ Test Date 12/07/2021	³⁴ Test Length 24 hr	³⁵ Tbg. Pressure 1900	³⁶ Csg. Pressure 0
³⁷ Choke Size 32/64	³⁸ Oil 621	³⁹ Water 2399	⁴⁰ Gas 4803		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 Approved by: <i>PATRICIA MARTINEZ</i>
Printed name: CINDY COTTRELL	Title: <i>NMOCD</i>
Title: REGULATORY COORDINATOR	Approval Date: <i>1/31/2022</i>
E-mail Address: ccottrell@jdmii.com	
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
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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

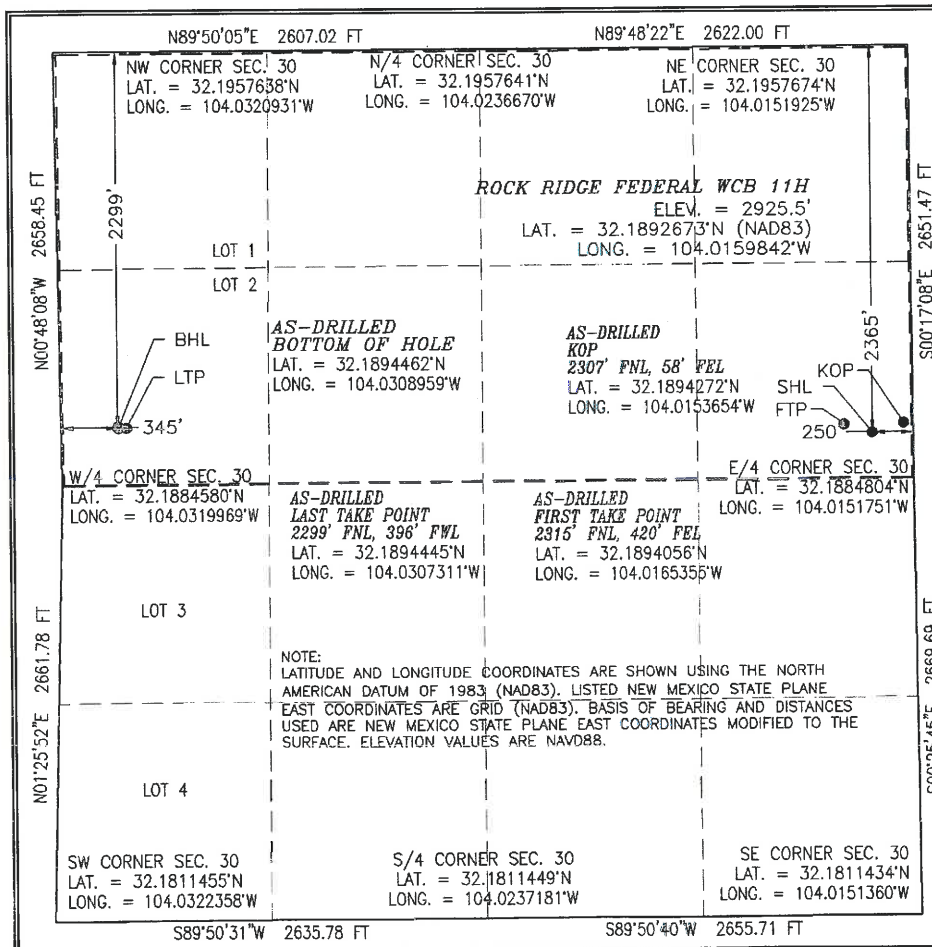
State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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 30-015-46332		² Pool Code 98220		³ Pool Name PURPLE SAGE; WC (GAS)	
⁴ Property Code 324981		⁵ Property Name ROCK RIDGE FEDERAL WCB			⁶ Well Number 11H
⁷ OGRID No. 15363		⁸ Operator Name MURCHISON OIL AND GAS, LLC			⁹ Elevation 2925.5
¹⁰ Surface Location					
UL or lot no. H	Section 30	Township 24 S	Range 29 E	Lot Idn	Feet from the 2365
				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. 2	Section 30	Township 24 S	Range 29 E	Lot Idn	Feet from the 2299
				North/South line NORTH	Feet from the 345
				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 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *[Signature]* Date: 10/25/21

Gary R. Cooper, VP Operations

Printed Name

rcooper@jdmii.com

E-mail Address

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.

OCTOBER 15, 2021

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number: 12797
Professional Surveyor No. 55166

Intent ☐ As Drilled ☒

API #		
Operator Name: MURCHISON OIL AND GAS, LLC	Property Name: ROCK RIDGE FEDERAL WCB	Well Number 11H

Kick Off Point (KOP)

UL H	Section 30	Township 24S	Range 29E	Lot	Feet 2307	From N/S NORTH	Feet 58	From E/W EAST	County EDDY
Latitude 32.1894272					Longitude 104.0153654				NAD 83

First Take Point (FTP)

UL H	Section 30	Township 24S	Range 29E	Lot	Feet 2315	From N/S NORTH	Feet 420	From E/W EAST	County EDDY
Latitude 32.1894056					Longitude 104.0165355				NAD 83

Last Take Point (LTP)

UL	Section 30	Township 24S	Range 29E	Lot 2	Feet 2299	From N/S NORTH	Feet 396	From E/W WEST	County EDDY
Latitude 32.1894445					Longitude 104.0307311				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)
30-015-46332
Rock Ridge Federal WCB 11H
Wellbore 1**

**MS MWD
Certified Survey Report
30 July 2021**

Field	Eddy County, New Mexico (NAD 83) - Murchison Oil and Gas, LLC		
CRS	US-SPC83 / New Mexico Eastern Zone	Scale Factor	0.9999090909
Apply Scale Factor	NO	Depth Datum->MSL	2950.49 UsFt
System Datum	Mean Sea Level		

Well	Rock Ridge Federal WCB 11H		
Local North	10.00 UsFt	Local East	0.22 UsFt
Map Northing	432734.79 US survey foot	Map Easting	639509.55 US survey foot
Latitude	32° 11' 21.36228" N	Longitude	104° 0' 57.54312" W
Depth Datum / Rig	WELL-Latshaw 11 / Latshaw 11	Datum Elevation	2950.50 UsFt
GL Elevation	2925.50 UsFt		
Grid Convergence	0.169		

Well bore	Rock Ridge Federal WCB 11H - 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	15266.00	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
135.00	0.90	62.00	134.99	0.50	0.94	-0.94	0.67	0.67	45.93
224.00	0.50	0.20	223.99	1.21	1.55	-1.56	0.90	-0.45	-69.44
315.00	0.70	20.40	314.98	2.13	1.75	-1.76	0.32	0.22	22.20
436.00	0.60	358.40	435.98	3.46	1.99	-2.00	0.22	-0.08	18.18
526.00	0.60	3.00	525.97	4.40	2.00	-2.02	0.05	0.00	5.11
617.00	0.60	355.20	616.97	5.35	1.99	-2.00	0.09	0.00	8.57
737.00	0.70	341.10	736.96	6.67	1.70	-1.72	0.16	0.08	-11.75
828.00	1.00	222.20	827.95	6.61	0.98	-1.00	1.62	0.33	-130.66
919.00	1.80	212.00	918.93	4.81	-0.31	0.29	0.92	0.88	-11.21
1014.00	1.70	211.90	1013.88	2.35	-1.84	1.84	0.11	-0.11	-0.11
1109.00	1.60	219.80	1108.84	0.13	-3.44	3.44	0.26	-0.11	8.32
1204.00	1.40	220.60	1203.81	-1.77	-5.04	5.05	0.21	-0.21	0.84
1300.00	1.30	226.40	1299.78	-3.41	-6.59	6.60	0.18	-0.10	6.04
1395.00	1.30	232.80	1394.76	-4.81	-8.23	8.25	0.15	0.00	6.74
1490.00	1.50	234.40	1489.73	-6.18	-10.10	10.12	0.21	0.21	1.68
1585.00	1.50	227.40	1584.70	-7.75	-12.03	12.05	0.19	0.00	-7.37
1680.00	0.80	201.60	1679.68	-9.20	-13.19	13.22	0.90	-0.74	-27.16
1775.00	0.90	190.30	1774.67	-10.56	-13.56	13.60	0.20	0.11	-11.89
1870.00	1.00	191.10	1869.65	-12.10	-13.86	13.90	0.11	0.11	0.84
1965.00	0.20	162.10	1964.65	-13.07	-13.97	14.01	0.87	-0.84	-30.53
2061.00	0.30	70.30	2060.65	-13.15	-13.68	13.72	0.38	0.10	-95.62
2156.00	0.70	112.30	2155.64	-13.29	-12.91	12.95	0.54	0.42	44.21
2251.00	1.10	123.60	2250.63	-14.01	-11.61	11.65	0.46	0.42	11.89
2347.00	1.70	123.50	2346.60	-15.31	-9.66	9.70	0.63	0.62	-0.10
2442.00	1.80	113.70	2441.56	-16.68	-7.11	7.17	0.33	0.11	-10.32
2538.00	1.10	110.10	2537.53	-17.61	-4.87	4.92	0.73	-0.73	-3.75
2633.00	0.60	116.90	2632.52	-18.14	-3.57	3.63	0.54	-0.53	7.16
2728.00	1.30	37.60	2727.51	-17.52	-2.47	2.52	1.40	0.74	-83.47
2823.00	2.00	22.00	2822.47	-15.12	-1.19	1.24	0.87	0.74	-16.42
2918.00	2.20	22.10	2917.40	-11.90	0.12	-0.08	0.21	0.21	0.11
3013.00	2.00	27.80	3012.34	-8.74	1.58	-1.55	0.30	-0.21	6.00
3108.00	1.20	46.60	3107.30	-6.59	3.07	-3.05	1.00	-0.84	19.79
3203.00	1.30	47.40	3202.28	-5.18	4.59	-4.57	0.11	0.11	0.84
3297.00	1.40	44.00	3296.25	-3.63	6.17	-6.16	0.14	0.11	-3.62
3392.00	1.40	38.60	3391.23	-1.89	7.70	-7.70	0.14	0.00	-5.68
3487.00	1.30	35.30	3486.20	-0.10	9.05	-9.05	0.13	-0.11	-3.47
3582.00	1.50	36.60	3581.17	1.77	10.41	-10.42	0.21	0.21	1.37
3676.00	1.40	48.00	3675.14	3.53	12.00	-12.01	0.32	-0.11	12.13
3772.00	0.70	111.50	3771.13	4.10	13.42	-13.43	1.31	-0.73	66.15
3867.00	0.80	115.40	3866.12	3.60	14.56	-14.57	0.12	0.11	4.11
3962.00	0.70	111.00	3961.11	3.11	15.70	-15.71	0.12	-0.11	-4.63
4057.00	0.90	101.70	4056.10	2.75	16.97	-16.98	0.25	0.21	-9.79
4153.00	0.90	107.00	4152.09	2.38	18.43	-18.44	0.09	0.00	5.52
4248.00	0.80	122.90	4247.08	1.80	19.70	-19.70	0.27	-0.11	16.74
4342.00	0.90	121.50	4341.07	1.06	20.88	-20.88	0.11	0.11	-1.49
4437.00	1.00	119.80	4436.06	0.26	22.24	-22.24	0.11	0.11	-1.79
4532.00	1.00	121.20	4531.04	-0.59	23.66	-23.66	0.03	0.00	1.47
4628.00	0.50	114.50	4627.03	-1.19	24.76	-24.76	0.53	-0.52	-6.98
4723.00	0.50	338.50	4722.03	-0.98	24.99	-24.98	0.98	0.00	143.16
4818.00	0.90	326.00	4817.02	0.02	24.42	-24.42	0.45	0.42	-13.16

Survey Report

MD UsFt	Inc °	Azi °	TVD UsFt	NS UsFt	EW UsFt	VS UsFt	DLS (°/100 UsFt)	BR (°/100 UsFt)	TR (°/100 UsFt)
4913.00	0.70	321.80	4912.01	1.10	23.64	-23.64	0.22	-0.21	-4.42
5008.00	0.70	327.10	5007.01	2.04	22.97	-22.97	0.07	0.00	5.58
5104.00	0.80	312.40	5103.00	2.99	22.15	-22.16	0.23	0.10	-15.31
5199.00	0.90	323.20	5197.99	4.03	21.22	-21.23	0.20	0.11	11.37
5295.00	1.20	326.20	5293.97	5.47	20.21	-20.22	0.32	0.31	3.12
5390.00	1.10	273.90	5388.96	6.36	18.74	-18.76	1.07	-0.11	-55.05
5486.00	1.20	250.60	5484.94	6.09	16.88	-16.89	0.49	0.10	-24.27
5581.00	1.30	252.00	5579.91	5.42	14.91	-14.93	0.11	0.11	1.47
5677.00	1.20	249.50	5675.89	4.74	12.94	-12.95	0.12	-0.10	-2.60
5772.00	1.10	247.30	5770.87	4.04	11.16	-11.17	0.12	-0.11	-2.32
5867.00	1.10	246.70	5865.86	3.32	9.48	-9.49	0.01	0.00	-0.63
5961.00	1.00	255.40	5959.84	2.76	7.86	-7.87	0.20	-0.11	9.26
6056.00	1.20	251.80	6054.82	2.24	6.11	-6.12	0.22	0.21	-3.79
6152.00	1.10	241.60	6150.80	1.49	4.35	-4.35	0.24	-0.10	-10.62
6247.00	1.30	241.20	6245.78	0.53	2.60	-2.60	0.21	0.21	-0.42
6342.00	0.90	222.40	6340.76	-0.54	1.15	-1.15	0.56	-0.42	-19.79
6437.00	0.90	202.80	6435.75	-1.77	0.36	-0.36	0.32	0.00	-20.63
6533.00	1.10	206.10	6531.74	-3.30	-0.34	0.35	0.22	0.21	3.44
6627.00	1.00	224.50	6625.72	-4.69	-1.31	1.32	0.37	-0.11	19.57
6723.00	1.10	228.50	6721.71	-5.90	-2.58	2.60	0.13	0.10	4.17
6818.00	1.20	227.30	6816.69	-7.18	-4.00	4.02	0.11	0.11	-1.26
6913.00	1.10	237.20	6911.67	-8.35	-5.50	5.52	0.23	-0.11	10.42
7008.00	0.80	246.30	7006.66	-9.11	-6.87	6.90	0.35	-0.32	9.58
7104.00	0.30	100.60	7102.65	-9.42	-7.24	7.27	1.11	-0.52	-151.77
7200.00	1.90	78.40	7198.63	-9.15	-5.43	5.46	1.69	1.67	-23.12
7296.00	2.70	77.80	7294.55	-8.35	-1.66	1.69	0.83	0.83	-0.62
7391.00	3.20	82.30	7389.43	-7.52	3.15	-3.13	0.58	0.53	4.74
7486.00	4.00	88.80	7484.24	-7.10	9.09	-9.07	0.94	0.84	6.84
7581.00	4.30	90.50	7578.99	-7.06	15.97	-15.95	0.34	0.32	1.79
7677.00	4.30	74.80	7674.72	-6.15	23.04	-23.02	1.22	0.00	-16.35
7771.00	4.60	66.50	7768.44	-3.72	29.90	-29.89	0.75	0.32	-8.83
7866.00	4.40	69.40	7863.15	-0.92	36.80	-36.80	0.32	-0.21	3.05
7961.00	4.70	72.40	7957.85	1.54	43.92	-43.93	0.40	0.32	3.16
8057.00	4.90	72.80	8053.51	3.94	51.59	-51.60	0.21	0.21	0.42
8152.00	4.80	74.30	8148.17	6.21	59.29	-59.31	0.17	-0.11	1.58
8247.00	4.90	74.90	8242.83	8.35	67.03	-67.06	0.12	0.11	0.63
8342.00	5.20	76.50	8337.46	10.41	75.14	-75.17	0.35	0.32	1.68
8437.00	4.00	72.60	8432.16	12.41	82.49	-82.52	1.30	-1.26	-4.11
8532.00	3.70	71.00	8526.94	14.39	88.55	-88.59	0.34	-0.32	-1.68
8627.00	3.80	70.50	8621.74	16.44	94.41	-94.46	0.11	0.11	-0.53
8723.00	3.60	66.80	8717.54	18.69	100.18	-100.24	0.32	-0.21	-3.85
8818.00	3.60	63.80	8812.35	21.18	105.60	-105.66	0.20	0.00	-3.16
8914.00	4.70	67.00	8908.10	24.05	111.92	-112.00	1.17	1.15	3.33
9009.00	5.20	67.70	9002.74	27.21	119.49	-119.57	0.53	0.53	0.74
9104.00	5.00	66.30	9097.37	30.50	127.26	-127.36	0.25	-0.21	-1.47
9200.00	4.80	68.00	9193.02	33.69	134.82	-134.92	0.26	-0.21	1.77
9295.00	4.60	68.70	9287.70	36.56	142.05	-142.17	0.22	-0.21	0.74
9390.00	4.50	69.70	9382.40	39.24	149.10	-149.22	0.13	-0.11	1.05
9484.00	4.40	71.10	9476.11	41.69	155.97	-156.10	0.16	-0.11	1.49
9574.00	4.30	71.60	9565.85	43.87	162.43	-162.57	0.12	-0.11	0.56
9669.00	4.10	69.50	9660.60	46.18	168.99	-169.14	0.27	-0.21	-2.21
9761.00	4.00	69.20	9752.37	48.47	175.08	-175.23	0.11	-0.11	-0.33
9856.00	3.70	65.60	9847.16	50.92	180.96	-181.12	0.41	-0.32	-3.79
9951.00	3.50	62.90	9941.97	53.50	186.34	-186.50	0.28	-0.21	-2.84
10047.00	3.40	59.00	10037.79	56.31	191.39	-191.56	0.27	-0.10	-4.06
10141.00	2.90	292.40	10131.73	58.65	191.58	-191.76	5.99	-0.53	134.68
10189.00	7.90	284.80	10179.50	59.96	187.26	-187.45	10.50	10.42	-15.83
10236.00	13.40	281.60	10225.67	61.88	178.80	-178.99	11.77	11.70	-6.81
10284.00	20.10	282.50	10271.61	64.78	165.28	-165.48	13.97	13.96	1.88
10331.00	25.30	279.70	10314.96	68.23	147.49	-147.70	11.30	11.06	-5.96
10379.00	29.80	281.70	10357.50	72.38	125.68	-125.91	9.57	9.38	4.17
10426.00	32.90	275.10	10397.65	75.88	101.52	-101.76	9.83	6.60	-14.04
10474.00	38.30	269.20	10436.67	76.83	73.63	-73.87	13.32	11.25	-12.29
10521.00	42.10	266.50	10472.57	75.67	43.33	-43.57	8.89	8.09	-5.74
10569.00	45.10	265.60	10507.33	73.38	10.31	-10.54	6.38	6.25	-1.88
10616.00	46.20	263.00	10540.18	70.04	-23.12	22.90	4.60	2.34	-5.53
10664.00	48.10	261.10	10572.83	65.16	-57.97	57.76	4.91	3.96	-3.96
10711.00	51.30	260.60	10603.22	59.46	-93.35	93.17	6.86	6.81	-1.06
10759.00	57.40	263.60	10631.19	54.14	-131.97	131.80	13.68	12.71	6.25
10807.00	62.80	263.70	10655.11	49.54	-173.31	173.15	11.25	11.25	0.21
10855.00	65.10	264.50	10676.19	45.11	-216.20	216.06	5.02	4.79	1.67
10903.00	67.40	268.00	10695.52	42.25	-260.03	259.90	8.22	4.79	7.29
10951.00	73.20	270.30	10711.70	41.59	-305.19	305.06	12.90	12.08	4.79
10998.00	76.20	270.60	10724.10	41.95	-350.52	350.39	6.41	6.38	0.64
11046.00	78.50	270.30	10734.61	42.32	-397.35	397.22	4.83	4.79	-0.62
11093.00	81.60	270.70	10742.73	42.72	-443.64	443.50	6.65	6.60	0.85
11188.00	91.70	274.40	10748.27	46.95	-538.24	538.09	11.32	10.63	3.89
11283.00	90.80	273.80	10746.20	53.74	-632.97	632.80	1.14	-0.95	-0.63

Survey Report

MD UsFt	Inc °	Azi °	TVD UsFt	NS UsFt	EW UsFt	VS UsFt	DLS (°/100 UsFt)	BR (°/100 UsFt)	TR (°/100 UsFt)
11378.00	90.70	273.70	10744.96	59.96	-727.76	727.57	0.15	-0.11	-0.11
11502.00	90.10	271.50	10744.09	65.58	-851.62	851.41	1.84	-0.48	-1.77
11597.00	89.30	270.90	10744.59	67.57	-946.60	946.38	1.05	-0.84	-0.63
11692.00	91.60	271.40	10743.84	69.48	-1041.57	1041.35	2.48	2.42	0.53
11786.00	91.60	271.30	10741.22	71.69	-1135.51	1135.28	0.11	0.00	-0.11
11881.00	90.80	270.80	10739.23	73.43	-1230.47	1230.23	0.99	-0.84	-0.53
11976.00	90.60	271.00	10738.07	74.92	-1325.45	1325.21	0.30	-0.21	0.21
12071.00	90.20	270.60	10737.41	76.25	-1420.44	1420.19	0.60	-0.42	-0.42
12166.00	92.00	269.50	10735.58	76.33	-1515.42	1515.17	2.22	1.89	-1.16
12261.00	92.10	269.50	10732.18	75.50	-1610.35	1610.11	0.11	0.11	0.00
12356.00	91.60	269.30	10729.12	74.51	-1705.30	1705.05	0.57	-0.53	-0.21
12451.00	91.50	269.40	10726.55	73.43	-1800.26	1800.02	0.15	-0.11	0.11
12545.00	91.00	269.20	10724.50	72.28	-1894.23	1893.99	0.57	-0.53	-0.21
12641.00	90.90	269.20	10722.91	70.94	-1990.20	1989.97	0.10	-0.10	0.00
12736.00	90.10	268.30	10722.08	68.87	-2085.17	2084.95	1.27	-0.84	-0.95
12831.00	89.40	267.60	10722.49	65.47	-2180.11	2179.90	1.04	-0.74	-0.74
12926.00	90.70	269.10	10722.41	62.74	-2275.07	2274.86	2.09	1.37	1.58
13021.00	90.60	270.10	10721.33	62.07	-2370.06	2369.85	1.06	-0.11	1.05
13116.00	89.80	269.60	10721.00	61.83	-2465.06	2464.85	0.99	-0.84	-0.53
13211.00	92.00	270.90	10719.51	62.24	-2560.04	2559.83	2.69	2.32	1.37
13306.00	91.90	271.00	10716.27	63.81	-2654.97	2654.75	0.15	-0.11	0.11
13402.00	91.50	271.00	10713.43	65.49	-2750.91	2750.69	0.42	-0.42	0.00
13496.00	91.50	271.00	10710.97	67.13	-2844.86	2844.64	0.00	0.00	0.00
13591.00	91.10	270.10	10708.81	68.04	-2939.83	2939.61	1.04	-0.42	-0.95
13687.00	90.80	270.30	10707.22	68.38	-3035.82	3035.59	0.38	-0.31	0.21
13782.00	90.50	270.70	10706.14	69.20	-3130.81	3130.58	0.53	-0.32	0.42
13877.00	90.70	271.00	10705.15	70.61	-3225.79	3225.56	0.38	0.21	0.32
13972.00	90.30	270.90	10704.32	72.19	-3320.78	3320.53	0.43	-0.42	-0.11
14068.00	91.20	270.50	10703.06	73.36	-3416.76	3416.51	1.03	0.94	-0.42
14163.00	91.00	270.00	10701.24	73.78	-3511.74	3511.49	0.57	-0.21	-0.53
14258.00	92.40	268.70	10698.42	72.70	-3606.69	3606.44	2.01	1.47	-1.37
14353.00	91.40	267.80	10695.27	69.80	-3701.59	3701.35	1.42	-1.05	-0.95
14448.00	90.90	267.40	10693.36	65.82	-3796.49	3796.26	0.67	-0.53	-0.42
14543.00	90.70	267.40	10692.04	61.51	-3891.38	3891.17	0.21	-0.21	0.00
14637.00	91.70	268.80	10690.07	58.40	-3985.31	3985.10	1.83	1.06	1.49
14732.00	91.50	269.00	10687.41	56.57	-4080.25	4080.05	0.30	-0.21	0.21
14827.00	91.10	268.80	10685.26	54.75	-4175.21	4175.02	0.47	-0.42	-0.21
14922.00	90.70	268.30	10683.77	52.35	-4270.17	4269.98	0.67	-0.42	-0.53
15018.00	90.50	270.20	10682.76	51.09	-4366.15	4365.97	1.99	-0.21	1.98
15113.00	90.30	270.10	10682.10	51.34	-4461.15	4460.96	0.24	-0.21	-0.11
15191.00	89.90	270.20	10681.96	51.54	-4539.14	4538.96	0.53	-0.51	0.13
15266.00	89.90	270.20	10682.09	51.81	-4614.14	4613.96	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-84345
Survey Type: MWD
Operating Company: Murchison Oil and Gas, LLC
Well Name and Number: Rock Ridge Federal WCB 11H
Location: Eddy, New Mexico
API Number: 30-015-46332
Tie In Depth: 0.00
Surveyed Depths: 135.00' - 15191.00'
Projected TD Survey: 15266.00'
Dates Performed: 07/07/2021 - 07/29/2021

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: Mark Gibson

MWD Operations Manager: Charles Davis

Signature:

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

Date: 07/30/2021

Email: charles.davis@msdir.com

Well Name: ROCK RIDGE FEDERAL WCB	Well Location: T24S / R29E / SEC 30 / SENE / 32.1892673 / -104.0159842	County or Parish/State: EDDY / NM
Well Number: 11H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM107384	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001546332	Well Status: Drilling Well	Operator: MURCHISON OIL & GAS LLC

Subsequent Report

Sundry ID: 2643804

Type of Submission: Subsequent Report

Type of Action: Hydraulic Fracturing

Date Sundry Submitted: 11/10/2021

Time Sundry Submitted: 08:37

Date Operation Actually Began: 09/12/2021

Actual Procedure: 9/12 – 10/14/21: Perforate and fracture treat from 10,804 ft to 15,215 ft in 21 stages; 6 clusters per stage, 19 stages w/48 perfs, 1 stage w/56 perfs and 1 stage w/36 perfs total 1,004, 0.4 inch holes; used 10,611,938 lbs sand and 318,936 bbls treated water. 10/22-24/21: Milled plugs & circulated hole clean. 10/29/21: Started flowing well back; turned well over to production.

Well Location: T24S / R29E / SEC 30 /
SENE / 32.1892673 / -104.0159842**County or Parish/State:** EDDY /
NM**Well Number:** 11H**Type of Well:** CONVENTIONAL GAS
WELL**Allottee or Tribe Name:****Lease Number:** NMNM107384**Unit or CA Name:****Unit or CA Number:****US Well Number:** 3001546332**Well Status:** Drilling Well**Operator:** MURCHISON OIL &
GAS LLC**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 08:37 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:****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

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1625 N. French Dr., Hobbs, NM 88240
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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 64871

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 64871
	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 the following information: Production Pressure Test, PBTD, Rig Release Date, and Tubing.	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 SENE Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 11H	US Well Number 3001546332
	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 10400040661

Section 1 - General

Well Completion Report Id: 82345**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:** 07-08-2021**Date Total Measured Depth Reached:** 07-28-2021**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 SENE Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 11H	US Well Number 3001546332
	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 10400040661

Section 3 - Geologic Formations

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral Resources
TOP SALT	SALT		1919	1039	1039	OTHER	Salt
RUSTLER	DOLOMITE, GYPSUM, SILTSTONE		1748	1210	1210	NONE	
CASTILE	ANHYDRITE		963	1995	1995	NONE	
LAMAR	LIMESTONE		183	2733	2733	NONE	
BELL CANYON	LIMESTONE, SANDSTONE, SHALE		102	2748	2749	NONE	
BASE OF SALT	SALT		161	2790	2790	OTHER	Salt
CHERRY CANYON	SANDSTONE		-677	3627	3628	NATURAL GAS, OIL	
BRUSHY CANYON	SANDSTONE		-1991	4941	4942	NATURAL GAS, OIL	
BONE SPRING	LIMESTONE		-3563	6513	6514	NATURAL GAS, OIL	
BONE SPRING 1ST	SANDSTONE		-4527	7477	7479	NATURAL GAS, OIL	
BONE SPRING 2ND	SANDSTONE		-5313	8264	8268	NATURAL GAS, OIL	
BONE SPRING 3RD	SANDSTONE		-6422	9373	9380	NATURAL GAS, OIL	
WOLFCAMP	LIMESTONE, SANDSTONE, SHALE		6785	9736	9744	NATURAL GAS, OIL	
WOLFCAMP	LIMESTONE, SANDSTONE, SHALE		-6822	9738	9738	NATURAL GAS, OIL	

Operator Name MURCHISON OIL & GAS LLC SHL SENE Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 11H	US Well Number 3001546332
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Allottee/Tribe Name	Well Pad Name ROCK RIDGE	Well Pad Number 3	ID 10400040661

Completion and Completed Intervals

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM107384	NMNM107384	NEW		PGW	10-29-2021	10-29-2021	WOLFCA MP	10804	15215	Y	.4	1004	ISOLATED

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Total Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	318936		10,611,938 lbs sand

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1	48.2		FLOWS FROM WELL		SOLD	

Operator Name MURCHISON OIL & GAS LLC SHL SENE Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 11H	US Well Number 3001546332
	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 10400040661

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	12/07/2021	24	621	4803	2399	7734	32/64	1900		0

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	32.1892673	-104.0159842	2926	FEDERAL	NMNM107384				2365	FNL	250	FEL	24S	29E	30	SENE
KOP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.1894272	-104.0153654	-7210	FEDERAL	NMNM107384				2307	FNL	58	FEL	24S	29E	30	SENE
PPP Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.1894056	-104.0165355	-7729	FEDERAL	NMNM107384				2315	FNL	420	FEL	24S	29E	30	SENE
EXIT Wellbore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.1894445	-104.0307311	-7756	FEDERAL	NMNM107384				2299	FNL	396	FWL	24S	29E	30	Lot 2

Operator Name MURCHISON OIL & GAS LLC SHL SENE Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 11H	US Well Number 3001546332
	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 10400040661

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 2	30	29E	24S	FWL	345	FNL	2299				NMNM107384	FEDERAL	-7756	104.0308959	32.1894462	EDDY	NEW MEXICO PRINCIPAL	NEW MEXICO	BHL Well bore 00

Casing, Liner and Tubing

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	16	0	380	13.375	48	J-55		ST&C		
00	INTERMEDIATE	12.25	0	6492	9.625	40	HCP-110		BUTT		
00	INTERMEDIATE	12.25	6492	9528	9.625	43.5	HCP-110		BUTT		
00	PRODUCT ION	8.5	0	15252	5.5	20	HCP-110		BUTT		

Operator Name MURCHISON OIL & GAS LLC SHL SENE Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB	Well Number 11H	US Well Number 3001546332
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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 10400040661

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	3000	Class H	175	1.18	9028	472.1
00	INTERMEDIATE	3000	Class C	1295	2.18	0	Class H	475	1.32	2500	614.5
00	PRODUCTION		Class H	465	2.92	5000	Class H	1160	1.34	10144	518.7

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	2.875		9995	10000	6	L-80		OTHER	EUE 8rd

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 SENE Sec 30 24S 29E	Well Name ROCK RIDGE FEDERAL WCB County EDDY	Well Number 11H State NM	US Well Number 3001546332 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 10400040661

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: 12/14/2021

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:

Email address: lpumphrey@jdmii.com

Attachments

Rock_Ridge_Federal_WCB_11H_1in_MD_20211213154137.pdf

Rock_Ridge_Federal_WCB_11H___Certified_Surveys_20211213154201.pdf

Rock_Ridge_Federal_WCB_11H___As_Drilled_Plat_20211213154225.pdf

District I

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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

ACKNOWLEDGMENTS

Action 73690

ACKNOWLEDGMENTS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 73690
	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 73690

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 73690
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	1/31/2022