

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 RT / October 2021
⁴ API Number 30 – 015-46331	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 010H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
H	30	24S	29E		2345	NORTH	250	EAST	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	24S	29E		1649	NORTH	343	WEST	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 06/23/2021	²² Ready Date 10/29/2021	²³ TD 10,804' TVD 15,477' MD	²⁴ PBDT N/A	²⁵ Perforations 10,915'-15,425'	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	9,548'	1,020, Class H 1,770, Class C		
8.5	5.5, 20# HCP110	15,462'	1,635, Class H		

V. Well Test Data

³¹ Date New Oil TBD	³² Gas Delivery Date TBD	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		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: *Cindy Cottrell*

Printed name: CINDY COTTRELL

Title: REGULATORY COORDINATOR

E-mail Address: ccottrell@jdmii.com

Date: 10/25/2021

Phone: 972-931-0700

OIL CONSERVATION DIVISION

Approved by: PATRICIA MARTINEZ

Title: PETROLEUM SPECIALIST

Approval Date: 11/16/2021

RT EXPIRES 1/29/2022

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 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 30-015-46331		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 10H
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 2345
				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 1649
				North/South line NORTH	Feet from the 343
				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.

N89°50'05"E 2607.02 FT N89°48'22"E 2622.00 FT NW CORNER SEC. 30 LAT. = 32.1957638°N LONG. = 104.0320931°W N/4 CORNER SEC. 30 LAT. = 32.1957641°N LONG. = 104.0236670°W NE CORNER SEC. 30 LAT. = 32.1957674°N LONG. = 104.0151925°W ROCK RIDGE FEDERAL WCB 10H ELEV. = 2925.5' LAT. = 32.1893223°N (NAD83) LONG. = 104.0159843°W AS-DRILLED BOTTOM OF HOLE LAT. = 32.1912332°N LONG. = 104.0309247°W AS-DRILLED KOP 1698' FNL, 46' FEL LAT. = 32.1911018°N LONG. = 104.0153313°W AS-DRILLED LAST TAKE POINT 1647' FNL, 395' FWL LAT. = 32.1912362°N LONG. = 104.0307566°W AS-DRILLED FIRST TAKE POINT 1628' FNL, 335' FEL LAT. = 32.1912923°N LONG. = 104.0162659°W NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD88. SW CORNER SEC. 30 LAT. = 32.1811455°N LONG. = 104.0322358°W S/4 CORNER SEC. 30 LAT. = 32.1811449°N LONG. = 104.0237181°W SE CORNER SEC. 30 LAT. = 32.1811434°N LONG. = 104.0151360°W W/4 CORNER SEC. 30 LAT. = 32.1884580°N LONG. = 104.0319969°W E/4 CORNER SEC. 30 LAT. = 32.1884804°N LONG. = 104.0151751°W AS-DRILLED KOP 1698' FNL, 46' FEL LAT. = 32.1911018°N LONG. = 104.0153313°W AS-DRILLED LAST TAKE POINT 1647' FNL, 395' FWL LAT. = 32.1912362°N LONG. = 104.0307566°W AS-DRILLED FIRST TAKE POINT 1628' FNL, 335' FEL LAT. = 32.1912923°N LONG. = 104.0162659°W NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD88.		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: <i>[Signature]</i> 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: <i>[Signature]</i> Certificate Number: 12797 NEW MEXICO PROFESSIONAL SURVEYORS NO. 5515E
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Intent ☐ As Drilled ☒

API #		
Operator Name: MURCHISON OIL AND GAS, LLC	Property Name: ROCK RIDGE FEDERAL WCB	Well Number 10H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	30	24S	29E		1698	NORTH	46	EAST	EDDY
Latitude 32.1911018					Longitude 104.0153313				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	30	24S	29E		1628	NORTH	335	EAST	EDDY
Latitude 32.1912923					Longitude 104.0162659				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	30	24S	29E	2	1647	NORTH	395	WEST	EDDY
Latitude 32.1912362					Longitude 104.0307566				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)
30-015-46330
Rock Ridge Federal WCB 10H
Wellbore 1**

**MS MWD
Certified Survey Report
16 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	2950.49 UsFt

Well	Rock Ridge Federal WCB 10H		
Local North	30.01 UsFt	Local East	0.13 UsFt
Map Northing	432754.80 US survey foot	Map Easting	639509.46 US survey foot
Latitude	32° 11' 21.56028" N	Longitude	104° 0' 57.54348" 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 10H - Wellbore 1		
Magnetic Model	User defined	Date	01/08/2021
Total Field (nT)	47658.50	Dip Angle (°)	59.850
Declination (°)	6.750		
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)	0.00	Survey Tool	MWD+HRGM
Depth To (UsFt)	15477.03		
Survey	MS MWD		

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
131.00	0.70	77.70	131.00	0.17	0.78	-0.78	0.53	0.53	59.31
222.00	0.50	66.60	221.99	0.45	1.69	-1.69	0.25	-0.22	-12.20
329.00	0.80	84.70	328.98	0.70	2.86	-2.86	0.34	0.28	16.92
437.00	0.70	89.90	436.98	0.77	4.27	-4.27	0.11	-0.09	4.81
527.00	0.70	78.80	526.97	0.88	5.36	-5.36	0.15	0.00	-12.33
618.00	0.90	102.20	617.96	0.84	6.60	-6.61	0.42	0.22	25.71
738.00	0.70	91.70	737.95	0.62	8.26	-8.26	0.21	-0.17	-8.75
829.00	0.70	109.70	828.94	0.41	9.34	-9.34	0.24	0.00	19.78
920.00	0.70	116.40	919.94	-0.02	10.36	-10.36	0.09	0.00	7.36
1015.00	2.50	352.40	1014.91	1.77	10.60	-10.61	3.10	1.89	130.53
1110.00	5.40	27.50	1109.68	7.79	12.40	-12.42	3.84	3.05	36.95
1206.00	7.10	29.10	1204.12	16.89	17.32	-17.37	1.80	1.79	1.68
1300.00	5.40	30.60	1298.55	25.87	22.45	-22.53	1.80	-1.79	1.58
1396.00	4.00	16.90	1394.23	32.96	25.72	-25.82	1.86	-1.46	-14.27
1491.00	3.10	2.40	1489.04	38.70	26.79	-26.91	1.33	-0.95	-15.26
1585.00	3.00	0.70	1582.91	43.70	26.93	-27.06	0.14	-0.11	-1.81
1681.00	3.40	3.00	1678.76	49.05	27.11	-27.26	0.44	0.42	2.40
1776.00	3.50	8.20	1773.59	54.73	27.67	-27.84	0.35	0.11	5.47
1871.00	3.70	13.50	1868.40	60.59	28.80	-28.99	0.41	0.21	5.58
1966.00	3.60	16.20	1963.21	66.43	30.34	-30.55	0.21	-0.11	2.84
2061.00	3.60	21.50	2058.02	72.07	32.27	-32.50	0.35	0.00	5.58
2157.00	3.60	29.00	2153.83	77.51	34.84	-35.08	0.49	0.00	7.81
2252.00	3.50	35.10	2248.65	82.49	37.95	-38.21	0.41	-0.11	6.42
2348.00	3.90	22.00	2344.45	87.92	40.86	-41.13	0.97	0.42	-13.65
2443.00	4.10	14.10	2439.22	94.20	42.89	-43.19	0.62	0.21	-8.32
2539.00	4.20	14.70	2534.97	100.93	44.62	-44.94	0.11	0.10	0.62
2633.00	4.50	18.90	2628.70	107.75	46.69	-47.03	0.47	0.32	4.47
2728.00	3.30	11.40	2723.48	113.96	48.44	-48.80	1.37	-1.26	-7.89
2824.00	3.30	359.70	2819.32	119.43	48.97	-49.34	0.70	0.00	12.19
2919.00	3.70	0.20	2914.14	125.23	48.97	-49.36	0.42	0.42	0.53
3014.00	4.20	0.70	3008.92	131.77	49.02	-49.43	0.53	0.53	0.53
3109.00	4.70	2.30	3103.63	139.14	49.22	-49.66	0.54	0.53	1.68
3204.00	5.50	3.60	3198.25	147.57	49.66	-50.12	0.85	0.84	1.37
3298.00	4.70	18.90	3291.88	155.71	51.19	-51.68	1.67	-0.85	16.28
3393.00	4.70	23.40	3386.57	162.97	54.00	-54.51	0.39	0.00	4.74
3488.00	4.70	16.00	3481.25	170.28	56.62	-57.15	0.64	0.00	-7.79
3583.00	5.10	12.70	3575.90	178.14	58.62	-59.18	0.51	0.42	-3.47
3677.00	4.20	18.90	3669.59	185.47	60.65	-61.23	1.10	-0.96	6.60
3772.00	3.90	24.50	3764.35	191.71	63.12	-63.72	0.52	-0.32	5.89
3868.00	4.20	25.80	3860.11	197.84	66.00	-66.62	0.33	0.31	1.35
3963.00	4.50	27.70	3954.84	204.27	69.25	-69.89	0.35	0.32	2.00
4058.00	4.80	19.70	4049.53	211.31	72.32	-72.98	0.75	0.32	-8.42
4153.00	5.40	18.10	4144.15	219.31	75.05	-75.74	0.65	0.63	-1.68
4248.00	4.60	15.10	4238.79	227.23	77.43	-78.14	0.89	-0.84	-3.16
4343.00	4.60	15.60	4333.48	234.58	79.45	-80.18	0.04	0.00	0.53
4438.00	5.10	16.50	4428.14	242.30	81.67	-82.43	0.53	0.53	0.95
4533.00	4.60	16.30	4522.80	250.00	83.94	-84.72	0.53	-0.53	-0.21
4628.00	3.70	6.30	4617.55	256.71	85.34	-86.15	1.21	-0.95	-10.53
4724.00	3.60	2.00	4713.36	262.80	85.79	-86.61	0.30	-0.10	-4.48
4819.00	4.00	5.50	4808.15	269.08	86.21	-87.06	0.49	0.42	3.68

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	4.20	9.50	4902.91	275.81	87.10	-87.97	0.37	0.21	4.21
5009.00	4.60	12.30	4997.63	282.96	88.49	-89.38	0.48	0.42	2.95
5105.00	4.80	12.40	5093.30	290.64	90.17	-91.08	0.21	0.21	0.10
5200.00	3.60	25.60	5198.05	297.21	92.31	-93.25	1.61	-1.26	13.89
5296.00	3.30	37.50	5283.88	302.12	95.30	-96.25	0.81	-0.31	12.40
5391.00	3.40	16.50	5378.72	307.00	97.76	-98.73	1.29	0.11	-22.11
5487.00	3.70	11.30	5474.53	312.76	99.18	-100.16	0.46	0.31	-5.42
5582.00	4.00	12.20	5569.32	319.01	100.48	-101.48	0.32	0.32	0.95
5678.00	4.10	13.10	5665.08	325.62	101.96	-102.99	0.12	0.10	0.94
5773.00	4.10	15.30	5759.84	332.21	103.63	-104.67	0.17	0.00	2.32
5868.00	3.90	13.80	5854.60	338.62	105.30	-106.36	0.24	-0.21	-1.58
5962.00	4.20	17.60	5948.37	345.00	107.10	-108.18	0.43	0.32	4.04
6057.00	4.60	17.50	6043.09	351.95	109.30	-110.40	0.42	0.42	-0.11
6153.00	4.90	19.90	6138.76	359.48	111.85	-112.98	0.37	0.31	2.50
6248.00	4.80	25.40	6233.42	366.89	114.94	-116.09	0.50	-0.11	5.79
6343.00	4.00	24.70	6328.14	373.49	118.03	-119.20	0.84	-0.84	-0.74
6438.00	3.90	27.60	6422.91	379.36	120.91	-122.10	0.24	-0.11	3.05
6534.00	3.90	29.50	6518.69	385.09	124.03	-125.24	0.13	0.00	1.98
6628.00	4.10	32.50	6612.46	390.71	127.41	-128.63	0.31	0.21	3.19
6724.00	4.10	34.50	6708.22	396.43	131.20	-132.44	0.15	0.00	2.08
6819.00	3.90	32.00	6802.99	401.97	134.83	-136.09	0.28	-0.21	-2.63
6914.00	3.80	8.70	6897.78	407.82	137.02	-138.30	1.64	-0.11	-24.53
7009.00	4.30	1.20	6992.54	414.50	137.57	-138.87	0.77	0.53	-7.89
7105.00	4.00	1.40	7088.29	421.44	137.73	-139.05	0.31	-0.31	0.21
7201.00	3.60	12.20	7184.08	427.74	138.45	-139.79	0.85	-0.42	11.25
7297.00	3.10	356.60	7279.92	433.27	138.93	-140.29	1.08	-0.52	16.25
7392.00	3.60	3.70	7374.75	438.81	138.97	-140.35	0.68	0.53	7.47
7487.00	4.60	17.00	7469.51	445.43	140.28	-141.67	1.45	1.05	14.00
7582.00	4.80	23.70	7564.19	452.72	142.99	-144.41	0.61	0.21	7.05
7678.00	5.10	26.70	7659.84	460.21	146.52	-147.96	0.41	0.31	3.12
7772.00	4.30	25.50	7753.52	467.12	149.91	-151.38	0.86	-0.85	-1.28
7867.00	4.00	28.10	7848.27	473.26	153.01	-154.49	0.37	-0.32	2.74
7963.00	4.10	19.20	7944.03	479.45	155.71	-157.22	0.66	0.10	-9.27
8058.00	4.10	14.00	8038.79	485.95	157.65	-159.18	0.39	0.00	-5.47
8153.00	3.50	17.10	8133.58	492.02	159.33	-160.87	0.67	-0.63	3.26
8248.00	4.10	17.70	8228.37	498.03	161.21	-162.77	0.63	0.63	0.63
8343.00	4.40	20.90	8323.11	504.67	163.54	-165.13	0.40	0.32	3.37
8438.00	4.30	25.50	8417.83	511.29	166.38	-167.98	0.38	-0.11	4.84
8534.00	4.30	14.70	8513.57	518.02	168.84	-170.47	0.84	0.00	-11.25
8629.00	4.70	11.50	8608.27	525.27	170.52	-172.17	0.50	0.42	-3.37
8724.00	4.50	13.90	8702.97	532.71	172.19	-173.86	0.29	-0.21	2.53
8820.00	4.20	14.10	8798.69	539.77	173.95	-175.65	0.31	-0.31	0.21
8915.00	4.00	14.70	8893.45	546.35	175.64	-177.35	0.22	-0.21	0.63
9010.00	5.30	10.80	8988.13	553.87	177.30	-179.04	1.41	1.37	-4.11
9105.00	5.90	11.70	9082.68	562.96	179.11	-180.88	0.64	0.63	0.95
9201.00	6.30	13.90	9178.14	572.90	181.38	-183.18	0.48	0.42	2.29
9296.00	5.70	21.10	9272.62	582.36	184.33	-186.16	1.01	-0.63	7.58
9391.00	5.70	23.50	9367.15	591.09	187.91	-189.77	0.25	0.00	2.53
9485.00	5.90	26.00	9460.67	599.71	191.89	-193.77	0.34	0.21	2.66
9508.00	5.90	26.00	9483.54	601.84	192.93	-194.82	0.00	0.00	0.00
9574.00	6.10	31.10	9549.18	607.89	196.22	-198.13	0.86	0.30	7.73
9669.00	4.50	25.50	9643.77	615.58	200.44	-202.37	1.77	-1.68	-5.89
9761.00	2.90	358.40	9735.59	621.16	201.93	-203.88	2.53	-1.74	29.46
9856.00	2.80	355.00	9830.47	625.88	201.66	-203.62	0.21	-0.11	-3.58
9951.00	2.60	358.00	9925.36	630.34	201.38	-203.36	0.26	-0.21	3.16
10046.00	2.80	2.10	10020.26	634.81	201.39	-203.38	0.29	0.21	4.32
10141.00	2.40	6.50	10115.16	639.11	201.70	-203.71	0.47	-0.42	4.63
10236.00	2.60	9.00	10210.07	643.21	202.26	-204.28	0.24	0.21	2.63
10331.00	4.80	319.10	10304.89	648.35	199.99	-202.03	3.90	2.32	52.53
10378.00	8.40	322.80	10351.57	652.57	196.63	-198.68	7.71	7.66	7.87
10426.00	13.40	324.20	10398.69	659.88	191.25	-193.33	10.43	10.42	2.92
10522.00	26.20	309.20	10488.88	682.40	168.21	-170.36	14.24	13.33	-15.62
10617.00	36.60	291.90	10570.02	706.33	125.48	-127.70	14.39	10.95	-18.21
10664.00	39.50	281.20	10607.06	714.47	97.78	-100.03	15.31	6.17	-22.77
10712.00	43.00	271.60	10643.18	717.90	66.41	-68.66	15.05	7.29	-20.00
10759.00	44.30	269.50	10677.19	718.20	33.97	-36.23	4.14	2.77	-4.47
10807.00	48.90	269.30	10710.16	717.84	-0.90	-1.36	9.59	9.58	-0.42
10853.00	55.40	269.10	10738.37	717.33	-37.19	34.94	14.13	14.13	-0.43
10903.00	58.20	269.20	10765.75	716.71	-79.02	76.77	5.60	5.60	0.20
10932.00	59.00	269.30	10780.86	716.38	-103.77	101.52	2.77	2.76	0.34
10980.00	63.20	270.60	10804.05	716.36	-145.79	143.53	9.07	8.75	2.71
11027.00	65.60	271.70	10824.36	717.21	-188.16	185.91	5.53	5.11	2.34
11075.00	68.40	272.20	10843.11	718.72	-232.31	230.05	5.91	5.83	1.04
11122.00	73.90	270.70	10858.29	719.83	-276.76	274.50	12.09	11.70	-3.19
11217.00	84.50	268.50	10876.07	719.15	-369.94	367.67	11.39	11.16	-2.32
11312.00	86.10	268.70	10883.85	716.84	-464.59	462.33	1.70	1.68	0.21
11407.00	89.20	269.00	10887.75	714.93	-559.47	557.23	3.28	3.26	0.32
11503.00	90.70	268.60	10887.83	712.92	-655.45	653.21	1.62	1.56	-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)
11598.00	91.40	268.40	10886.09	710.43	-750.40	748.17	0.77	0.74	-0.21
11692.00	91.80	268.80	10883.47	708.14	-844.34	842.11	0.60	0.43	0.43
11787.00	91.70	270.30	10880.57	707.39	-939.29	937.06	1.58	-0.11	1.58
11882.00	91.40	269.80	10878.00	707.48	-1034.25	1032.02	0.61	-0.32	-0.53
11977.00	90.40	269.00	10876.50	706.48	-1129.23	1127.01	1.35	-1.05	-0.84
12072.00	89.70	268.50	10876.42	704.41	-1224.21	1221.99	0.91	-0.74	-0.53
12167.00	91.60	269.20	10875.34	702.50	-1319.18	1316.96	2.13	2.00	0.74
12261.00	92.70	269.00	10871.82	701.03	-1413.10	1410.89	1.19	1.17	-0.21
12356.00	91.80	268.00	10868.09	698.54	-1507.99	1505.79	1.42	-0.95	-1.05
12451.00	91.70	269.20	10865.19	696.22	-1602.92	1600.72	1.27	-0.11	1.26
12546.00	90.70	268.60	10863.20	694.40	-1697.88	1695.69	1.23	-1.05	-0.63
12642.00	89.90	267.90	10862.69	691.47	-1793.83	1791.65	1.11	-0.83	-0.73
12737.00	90.50	268.80	10862.36	688.73	-1888.79	1886.62	1.14	0.63	0.95
12832.00	91.70	271.70	10860.54	689.14	-1983.76	1981.58	3.30	1.26	3.05
12927.00	91.80	272.80	10857.64	692.87	-2078.64	2076.45	1.16	0.11	1.16
13022.00	92.20	273.60	10854.32	698.17	-2173.43	2171.23	0.94	0.42	0.84
13117.00	92.30	274.60	10850.59	704.96	-2268.11	2265.89	1.06	0.11	1.05
13212.00	93.50	274.60	10845.79	712.57	-2362.69	2360.44	1.26	1.26	0.00
13307.00	93.00	274.50	10840.40	720.09	-2457.23	2454.96	0.54	-0.53	-0.11
13402.00	91.20	270.50	10836.92	724.23	-2552.06	2549.77	4.61	-1.89	-4.21
13497.00	89.70	265.00	10836.17	720.50	-2646.94	2644.66	6.00	-1.58	-5.79
13592.00	90.10	265.60	10836.34	712.72	-2741.62	2739.37	0.76	0.42	0.63
13687.00	90.20	265.50	10836.09	705.35	-2836.33	2834.10	0.15	0.11	-0.11
13783.00	89.40	265.10	10836.42	697.48	-2932.01	2929.80	0.93	-0.83	-0.42
13878.00	92.40	268.10	10834.93	691.85	-3026.81	3024.62	4.47	3.16	3.16
13973.00	93.20	269.20	10830.29	689.61	-3121.67	3119.49	1.43	0.84	1.16
14068.00	92.70	269.10	10825.40	688.20	-3216.53	3214.35	0.54	-0.53	-0.11
14164.00	91.50	267.30	10821.88	685.19	-3312.41	3310.24	2.25	-1.25	-1.88
14259.00	91.70	267.60	10819.23	680.97	-3407.28	3405.13	0.38	0.21	0.32
14354.00	90.90	268.10	10817.07	677.40	-3502.19	3500.04	0.99	-0.84	0.53
14449.00	91.20	268.10	10815.33	674.25	-3597.12	3594.98	0.32	0.32	0.00
14544.00	90.10	269.90	10814.26	672.60	-3692.09	3689.96	2.22	-1.16	1.89
14638.00	89.70	270.00	10814.42	672.51	-3786.09	3783.96	0.44	-0.43	0.11
14733.00	92.80	272.50	10812.35	674.58	-3881.03	3878.89	4.19	3.26	2.63
14828.00	90.90	271.70	10809.28	678.06	-3975.91	3973.76	2.17	-2.00	-0.84
14923.00	90.30	270.70	10808.29	680.05	-4070.88	4068.73	1.23	-0.63	-1.05
15019.00	90.20	270.70	10807.87	681.23	-4166.88	4164.72	0.10	-0.10	0.00
15114.00	89.60	270.10	10808.03	681.89	-4261.87	4259.71	0.89	-0.63	-0.63
15210.00	91.00	270.80	10807.53	682.64	-4357.87	4355.70	1.63	1.46	0.73
15305.00	91.80	271.00	10805.21	684.13	-4452.82	4450.65	0.87	0.84	0.21
15403.00	89.80	268.60	10803.84	683.79	-4550.80	4548.63	3.19	-2.04	-2.45
15477.00	89.80	268.60	10804.10	681.98	-4624.78	4622.61	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-84343
Survey Type: MWD
Operating Company: Murchison Oil and Gas, LLC
Well Name and Number: Rock Ridge Federal WCB 10H
Location: Eddy, New Mexico
API Number: 30-015-46330
Tie In Depth: 0.00
Surveyed Depths: 131.00' - 15403.00'
Projected TD Survey: 15477.00'
Dates Performed: 06/23/2021 - 08/14/2021

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.

Date: 08/16/2021

Email: charles.davis@msdir.com

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

ACKNOWLEDGMENTS

Action 59917

ACKNOWLEDGMENTS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 59917
	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.

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

CONDITIONS

Action 59917

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 59917
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT C-104 EXPIRES 1/29/2022	11/16/2021