

OCT 29 2019

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 30-015-45731	² Pool Code 96671	³ Pool Name PIERCE CROSSING; BONE SPRING, SOUTH
⁴ Property Code 324983	⁵ Property Name ROCK RIDGE FEDERAL BSS	⁶ Well Number 7H
⁷ OGRID No. 15363	⁸ Operator Name MURCHISON OIL AND GAS, LLC	⁹ Elevation 2914.4

¹⁰ Surface Location

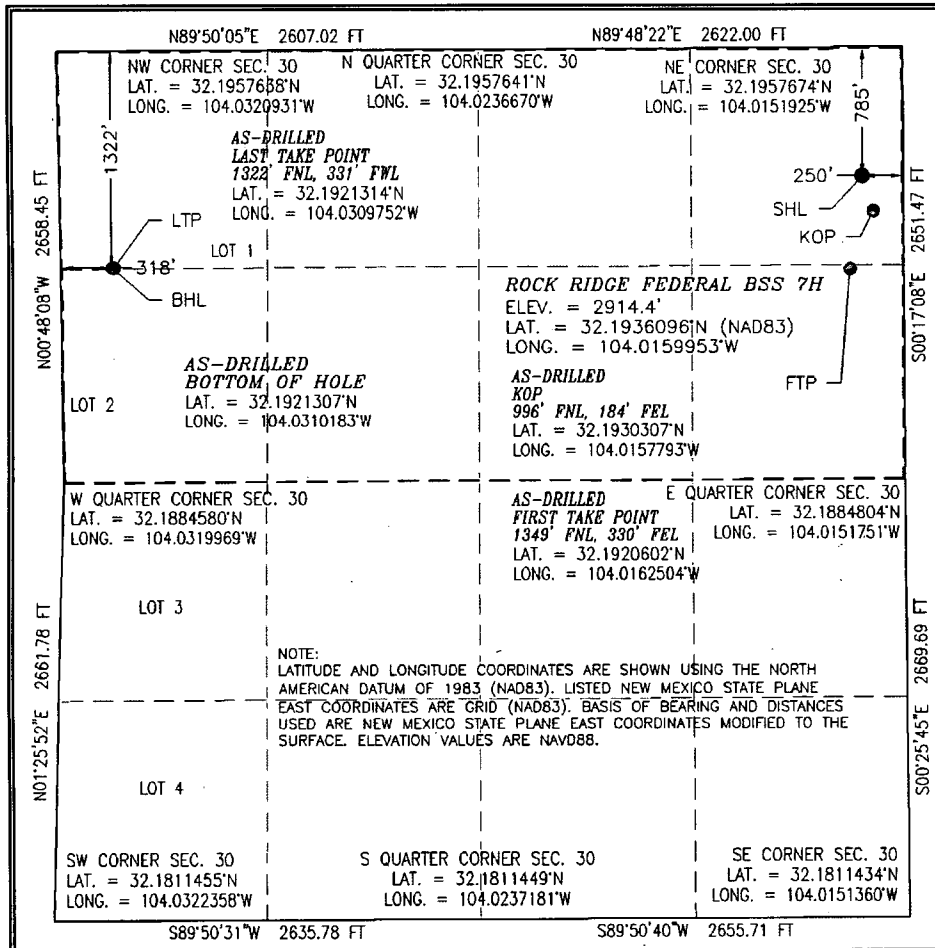
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	24 S	29 E		785	NORTH	250	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	24 S	29 E		1322	NORTH	318	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
320			

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: Gary R. Cooper Date: 10/11/19

Printed Name: Gary R. Cooper

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: SEPTEMBER 21, 2019

Signature and Seal of Professional Surveyor: [Signature]

Certificate Number: 12797

Surveyor: WILLIAM F. JARAMILA License No. 5512B

OCT 29 2019

Intent ☐ As Drilled ☒

RECEIVED

API #		
Operator Name:	Property Name:	Well Number
MURCHISON OIL & GAS, INC.	ROCK RIDGE FEDERAL BSS	7H

Kick Off Point (KOP)

UL A	Section 30	Township 24S	Range 29E	Lot	Feet 996	From N/S NORTH	Feet 184	From E/W EAST	County EDDY
Latitude 32.1930307					Longitude 104.0157793			NAD 83	

First Take Point (FTP)

UL H	Section 30	Township 24S	Range 29E	Lot	Feet 1349	From N/S NORTH	Feet 330	From E/W EAST	County EDDY
Latitude 32.1920602					Longitude 104.0162504			NAD 83	

Last Take Point (LTP)

UL	Section 30	Township 24S	Range 29E	Lot 1	Feet 1322	From N/S NORTH	Feet 331	From E/W WEST	County EDDY
Latitude 32.1921314					Longitude 104.0309752			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



7821 Will Rogers Blvd.
Fort Worth, Texas 76140
817.568.1038 (office)
817.568.1499 (fax)
www.msdir.com

MS Directional Survey Data Certification

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 21 2019

RECEIVED

MS Directional Job Number: MSMO-66371
Survey Type: MWD
Operating Company: Murchison Oil & Gas, LLC
Well Name & Number: Rock Ridge Federal BSS #007H
Location: Eddy County, NM
API Number: 30-015-45731
Tie In Depth: Surface
Surveyed Depths: 100'– 13,067' MD
Projected TD Survey: 13,140' MD
Dates Performed: 06/07/2019 – 06/28/2019

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

Digitally signed by:

MWD Surveyor Name: Charlie Salvaggio

Date: 08-20-2019

Email: Charlie.Salvaggio@msdir.com

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V09.04.02

Company:	Murchison Oil & Gas, LLC
Well Name:	Rock Ridge Federal BSS #007H
Location:	Eddy County, NM
Rig:	Latshaw #7
Job Number:	MSMO-66371
API #:	30-015-45731

Magnetic Declination: 6.81 REFERENCED TO GRID NORTH ▼

Vertical Section Azimuth: 263.24 Proposed Direction: 263.24

Survey Calculation Method: Minimum Curvature

PTB:	MD	INC	AZM	TVD	N/S	E/W	VS
	13,140	92.1	268.8	8398.44	-551.5	-4646.66	4679.28

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'
TIE IN	0	0.00	0.00	0.00	0.00	0.00		0.00			
1	100	1.00	39.50	99.99	0.67	0.56	-0.63	0.87	39.50	1.00	1.00
2	195	1.60	57.20	194.97	2.03	2.20	-2.42	2.99	47.24	0.75	0.63
3	287	2.00	57.90	286.92	3.58	4.64	-5.03	5.86	52.33	0.44	0.43
4	338	2.20	65.90	337.89	4.45	6.28	-6.76	7.70	54.68	0.69	0.39
5	407	2.40	75.60	406.84	5.35	8.89	-9.46	10.38	58.95	0.63	0.29
6	498	2.10	102.20	497.77	5.47	12.37	-12.93	13.53	66.12	1.18	-0.33
7	588	2.00	145.90	587.72	3.83	14.86	-15.21	15.34	75.56	1.70	-0.11
8	675	3.40	188.90	674.62	0.02	15.31	-15.21	15.31	89.93	2.72	1.61
9	765	4.20	195.10	764.43	-5.80	14.04	-13.26	15.19	112.44	1.00	0.89
10	825	4.20	196.50	824.27	-10.03	12.84	-11.57	16.29	127.98	0.17	0.00
11	919	5.80	173.50	917.91	-18.05	12.40	-10.19	21.90	145.50	2.70	1.70
12	1,013	6.70	174.30	1011.35	-28.22	13.49	-10.07	31.28	154.46	0.96	0.96
13	1,108	5.80	164.60	1105.79	-38.37	15.31	-10.69	41.31	158.24	1.46	-0.95
14	1,202	6.30	163.90	1199.27	-47.90	18.00	-12.24	51.17	159.40	0.54	0.53
15	1,296	5.20	164.00	1292.79	-56.95	20.61	-13.76	60.57	160.11	1.17	-1.17
16	1,390	5.30	161.10	1386.40	-65.15	23.19	-15.36	69.16	160.41	0.30	0.11
17	1,485	5.90	164.40	1480.95	-74.01	25.92	-17.03	78.42	160.70	0.72	0.63
18	1,579	6.50	168.80	1574.40	-83.88	28.26	-18.19	88.51	161.38	0.81	0.64
19	1,674	5.00	164.60	1668.92	-93.15	30.40	-19.22	97.98	161.93	1.64	-1.58
20	1,767	5.20	162.40	1761.55	-101.07	32.75	-20.62	106.24	162.05	0.30	0.22
21	1,861	5.90	161.20	1855.11	-109.71	35.59	-22.43	115.34	162.02	0.75	0.74
22	1,954	6.50	163.50	1947.56	-119.28	38.63	-24.32	125.38	162.05	0.70	0.65
23	2,049	4.90	155.20	2042.09	-128.12	41.86	-26.49	134.78	161.91	1.89	-1.68
24	2,143	5.10	153.50	2135.73	-135.50	45.41	-29.14	142.91	161.47	0.26	0.21
25	2,238	5.80	151.80	2230.30	-143.51	49.56	-32.32	151.83	160.95	0.76	0.74
26	2,331	6.40	153.90	2322.78	-152.31	54.06	-35.76	161.62	160.46	0.69	0.65
27	2,425	6.00	160.10	2416.23	-161.63	58.04	-38.61	171.73	160.25	0.83	-0.43
28	2,519	5.20	167.30	2509.78	-170.41	60.65	-40.17	180.88	160.41	1.13	-0.85
29	2,613	5.20	165.20	2603.39	-178.68	62.67	-41.20	189.35	160.67	0.20	0.00
30	2,707	5.70	170.20	2696.97	-187.40	64.55	-42.05	198.20	160.99	0.73	0.53
31	2,738	5.70	170.90	2727.81	-190.43	65.06	-42.19	201.24	161.14	0.22	0.00
32	2,801	6.00	172.60	2790.49	-196.79	65.98	-42.36	207.56	161.46	0.55	0.48
33	2,863	6.10	174.00	2852.14	-203.28	66.74	-42.35	213.95	161.82	0.29	0.16

Company:		Murchison Oil & Gas, LLC												
Well Name:		Rock Ridge Federal BSS #007H												
Location:		Eddy County, NM												
Rig:		Latshaw #7					Magnetic Declination:		6.81		REFERENCED TO GRID NORTH			
Job Number:		MSMO-66371												
API #:		30-015-45731												
Vertical Section Azimuth:				263.24			Proposed Direction:		263.24					
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	13,140		92.1		268.8		8398.44		-551.5		-4646.66		4679.28	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'			
34	2,957	4.70	174.70	2945.72	-212.08	67.62	-42.18	222.60	162.32	1.49	-1.49			
35	3,050	4.40	172.50	3038.43	-219.41	68.44	-42.13	229.84	162.68	0.37	-0.32			
36	3,145	5.40	159.50	3133.08	-227.21	70.48	-43.24	237.89	162.77	1.57	1.05			
37	3,240	5.70	159.20	3227.64	-235.81	73.72	-45.45	247.06	162.64	0.32	0.32			
38	3,334	5.60	158.00	3321.18	-244.43	77.09	-47.79	256.30	162.49	0.16	-0.11			
39	3,428	5.40	157.20	3414.75	-252.76	80.53	-50.21	265.27	162.33	0.23	-0.21			
40	3,523	5.30	156.20	3509.33	-260.89	84.03	-52.73	274.09	162.15	0.14	-0.11			
41	3,617	5.00	155.70	3602.95	-268.60	87.47	-55.24	282.48	161.96	0.32	-0.32			
42	3,712	4.50	154.70	3697.63	-275.74	90.76	-57.67	290.29	161.78	0.53	-0.53			
43	3,806	5.80	155.30	3791.25	-283.39	94.32	-60.31	298.67	161.59	1.38	1.38			
44	3,901	6.00	156.00	3885.74	-292.29	98.35	-63.26	308.39	161.40	0.22	0.21			
45	3,995	6.00	156.00	3979.23	-301.26	102.35	-66.17	318.17	161.24	0.00	0.00			
46	4,089	6.10	154.40	4072.70	-310.25	106.50	-69.24	328.02	161.05	0.21	0.11			
47	4,184	5.90	154.80	4167.18	-319.22	110.76	-72.42	337.89	160.86	0.22	-0.21			
48	4,277	5.70	153.90	4259.71	-327.70	114.83	-75.46	347.23	160.69	0.24	-0.22			
49	4,371	5.50	153.90	4353.26	-335.93	118.86	-78.49	356.34	160.51	0.21	-0.21			
50	4,465	5.30	154.30	4446.84	-343.89	122.73	-81.40	365.13	160.36	0.22	-0.21			
51	4,559	5.40	154.80	4540.43	-351.81	126.49	-84.20	373.85	160.22	0.12	0.11			
52	4,654	5.50	154.70	4635.00	-359.97	130.34	-87.07	382.84	160.09	0.11	0.11			
53	4,748	5.50	155.20	4728.57	-368.13	134.16	-89.89	391.81	159.98	0.05	0.00			
54	4,842	5.40	154.50	4822.15	-376.21	137.95	-92.71	400.70	159.86	0.13	-0.11			
55	4,936	5.40	154.10	4915.73	-384.18	141.79	-95.58	409.51	159.74	0.04	0.00			
56	5,031	5.00	153.90	5010.34	-391.92	145.56	-98.42	418.08	159.62	0.42	-0.42			
57	5,125	5.00	155.90	5103.98	-399.34	149.04	-100.99	426.24	159.53	0.19	0.00			
58	5,220	4.90	157.10	5198.62	-406.85	152.31	-103.36	434.43	159.48	0.15	-0.11			
59	5,314	4.60	155.30	5292.30	-413.98	155.44	-105.63	442.20	159.42	0.36	-0.32			
60	5,408	4.40	156.00	5386.01	-420.69	158.48	-107.86	449.56	159.36	0.22	-0.21			
61	5,502	6.40	161.10	5479.59	-428.95	161.65	-110.03	458.39	159.35	2.19	2.13			
62	5,597	6.30	163.70	5574.01	-438.96	164.83	-112.01	468.88	159.42	0.32	-0.11			
63	5,691	6.10	165.50	5667.46	-448.74	167.52	-113.54	478.99	159.53	0.30	-0.21			
64	5,786	6.00	164.30	5761.93	-458.41	170.13	-114.99	488.96	159.64	0.17	-0.11			
65	5,880	6.00	164.10	5855.41	-467.87	172.81	-116.53	498.76	159.73	0.02	0.00			
66	5,975	5.90	163.60	5949.90	-477.32	175.55	-118.14	508.58	159.81	0.12	-0.11			
67	6,070	5.70	163.40	6044.42	-486.53	178.27	-119.76	518.16	159.88	0.21	-0.21			

V09.04.02

Company:	Murchison Oil & Gas, LLC		
Well Name:	Rock Ridge Federal BSS #007H		
Location:	Eddy County, NM		
Rig:	Latshaw #7	Magnetic Declination:	6.81
Job Number:	MSMO-66371		
API #:	30-015-45731		
Vertical Section Azimuth:	263.24	Proposed Direction:	263.24
Survey Calculation Method:	Minimum Curvature		
PTB:	MD	INC	AZM
	13,140	92.1	268.8
	TVD	N/S	E/W
	8398.44	-551.5	-4646.66
	VS	4679.28	

#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'
68	6,164	5.50	163.80	6137.97	-495.33	180.86	-121.30	527.32	159.94	0.22	-0.21
69	6,259	5.30	162.80	6232.55	-503.89	183.43	-122.84	536.24	160.00	0.23	-0.21
70	6,353	5.10	163.80	6326.16	-512.05	185.88	-124.31	544.75	160.05	0.23	-0.21
71	6,447	4.70	164.50	6419.82	-519.77	188.07	-125.58	552.75	160.11	0.43	-0.43
72	6,542	4.30	163.60	6514.52	-526.94	190.12	-126.77	560.19	160.16	0.43	-0.42
73	6,636	3.80	155.50	6608.29	-533.16	192.41	-128.31	566.81	160.16	0.81	-0.53
74	6,730	3.30	159.10	6702.11	-538.52	194.66	-129.92	572.62	160.13	0.58	-0.53
75	6,824	2.70	155.40	6795.98	-543.06	196.55	-131.26	577.53	160.10	0.67	-0.64
76	6,919	2.20	148.20	6890.89	-546.64	198.44	-132.72	581.55	160.05	0.62	-0.53
77	7,013	1.80	120.80	6984.84	-548.93	200.66	-134.65	584.46	159.92	1.09	-0.43
78	7,107	1.40	120.60	7078.80	-550.27	202.92	-136.73	586.50	159.76	0.43	-0.43
79	7,201	1.10	93.30	7172.78	-550.91	204.81	-138.54	587.75	159.61	0.70	-0.32
80	7,296	0.90	71.80	7267.76	-550.73	206.43	-140.17	588.15	159.45	0.44	-0.21
81	7,390	1.00	127.00	7361.75	-550.99	207.78	-141.48	588.87	159.34	0.94	0.11
82	7,485	1.70	131.70	7456.73	-552.43	209.50	-143.01	590.82	159.23	0.75	0.74
83	7,579	2.00	132.40	7550.68	-554.46	211.75	-145.01	593.52	159.10	0.32	0.32
84	7,673	2.00	126.90	7644.62	-556.55	214.27	-147.27	596.38	158.94	0.20	0.00
85	7,768	2.30	114.90	7739.55	-558.35	217.33	-150.09	599.16	158.73	0.57	0.32
86	7,862	2.60	113.60	7833.47	-560.00	220.99	-153.54	602.03	158.46	0.32	0.32
87	7,909	2.70	113.50	7880.42	-560.87	222.98	-155.41	603.57	158.32	0.21	0.21
88	7,956	2.40	232.60	7927.39	-561.91	223.22	-155.52	604.62	158.33	9.36	-0.64
89	8,003	8.90	253.70	7974.14	-563.53	218.94	-151.09	604.56	158.77	14.29	13.83
90	8,050	15.50	260.40	8020.06	-565.60	209.25	-141.22	603.06	159.70	14.34	14.04
91	8,098	19.30	262.20	8065.85	-567.74	195.06	-126.87	600.32	161.04	7.99	7.92
92	8,145	23.10	263.60	8109.66	-569.83	178.20	-109.88	597.04	162.63	8.16	8.09
93	8,192	27.30	264.50	8152.18	-571.89	158.30	-89.88	593.39	164.53	8.97	8.94
94	8,239	30.80	268.30	8193.27	-573.28	135.53	-67.11	589.08	166.70	8.41	7.45
95	8,287	34.10	271.30	8233.77	-573.34	109.79	-41.54	583.75	169.16	7.65	6.88
96	8,334	38.00	273.60	8271.76	-572.13	82.16	-14.25	578.00	171.83	8.78	8.30
97	8,381	41.40	273.70	8307.92	-570.22	52.21	15.28	572.60	174.77	7.24	7.23
98	8,475	50.60	273.00	8373.15	-566.30	-15.22	81.78	566.51	181.54	9.80	9.79
99	8,569	60.20	271.00	8426.47	-563.68	-92.46	158.17	571.22	189.31	10.36	10.21
100	8,663	68.00	269.00	8467.50	-563.73	-176.94	242.07	590.85	197.43	8.52	8.30
101	8,756	77.60	268.10	8494.97	-566.00	-265.65	330.43	625.24	205.14	10.36	10.32

V09.04.02

Company:		Murchison Oil & Gas, LLC													
Well Name:		Rock Ridge Federal BSS #007H													
Location:		Eddy County, NM													
Rig:		Latshaw #7						Magnetic Declination:		6.81		REFERENCED TO GRID NORTH			
Job Number:		MSMO-66371													
API #:		30-015-45731													
Vertical Section Azimuth:				263.24		Proposed Direction:				263.24					
Survey Calculation Method:				Minimum Curvature											
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS		
	13,140		92.1		268.8		8398.44		-551.5		-4646.66		4679.28		
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'			
102	8,851	89.30	270.50	8505.79	-567.12	-359.85	424.11	671.66		212.40	12.57	12.32			
103	8,945	92.60	270.90	8504.23	-565.98	-453.82	517.29	725.45		218.72	3.54	3.51			
104	9,040	92.90	270.50	8499.67	-564.82	-548.70	611.37	787.46		224.17	0.53	0.32			
105	9,134	91.90	271.20	8495.73	-563.42	-642.61	704.46	854.63		228.76	1.30	-1.06			
106	9,227	90.40	272.00	8493.87	-560.83	-735.55	796.45	924.97		232.68	1.83	-1.61			
107	9,321	90.80	272.00	8492.88	-557.55	-829.49	889.35	999.46		236.09	0.43	0.43			
108	9,416	91.50	271.50	8490.98	-554.65	-924.42	983.29	1078.05		239.04	0.91	0.74			
109	9,510	92.20	271.30	8487.94	-552.35	-1018.35	1076.28	1158.50		241.52	0.77	0.74			
110	9,603	90.70	271.30	8485.59	-550.24	-1111.29	1168.33	1240.05		243.66	1.61	-1.61			
111	9,697	91.10	271.50	8484.11	-547.95	-1205.25	1261.37	1323.96		245.55	0.48	0.43			
112	9,792	91.70	270.80	8481.79	-546.04	-1300.20	1355.44	1410.21		247.22	0.97	0.63			
113	9,886	92.50	270.10	8478.35	-545.30	-1394.13	1448.63	1496.99		248.64	1.13	0.85			
114	9,980	92.50	269.00	8474.25	-546.04	-1488.04	1541.97	1585.06		249.85	1.17	0.00			
115	10,074	91.20	269.30	8471.21	-547.43	-1581.98	1635.42	1674.02		250.91	1.42	-1.38			
116	10,169	91.40	269.30	8469.06	-548.59	-1676.95	1729.86	1764.40		251.89	0.21	0.21			
117	10,263	92.00	268.70	8466.27	-550.23	-1770.89	1823.35	1854.40		252.74	0.90	0.64			
118	10,357	91.60	268.50	8463.31	-552.53	-1864.82	1916.89	1944.95		253.50	0.48	-0.43			
119	10,452	92.30	268.20	8460.08	-555.26	-1959.72	2011.46	2036.87		254.18	0.80	0.74			
120	10,545	90.80	270.10	8457.57	-556.64	-2052.67	2103.92	2126.81		254.83	2.60	-1.61			
121	10,639	91.00	270.40	8456.09	-556.23	-2146.66	2197.21	2217.55		255.47	0.38	0.21			
122	10,732	91.60	269.90	8453.98	-555.99	-2239.63	2289.51	2307.61		256.06	0.84	0.65			
123	10,827	90.20	269.60	8452.49	-556.40	-2334.62	2383.88	2400.00		256.59	1.51	-1.47			
124	10,920	90.50	269.50	8451.92	-557.13	-2427.61	2476.32	2490.72		257.07	0.34	0.32			
125	11,014	91.00	269.30	8450.69	-558.12	-2521.60	2569.77	2582.63		257.52	0.57	0.53			
126	11,108	91.60	268.90	8448.56	-559.59	-2615.56	2663.25	2674.75		257.92	0.77	0.64			
127	11,203	90.30	270.00	8446.98	-560.50	-2710.54	2757.68	2767.89		258.32	1.79	-1.37			
128	11,297	90.60	270.20	8446.24	-560.34	-2804.54	2851.00	2859.97		258.70	0.38	0.32			
129	11,391	91.30	269.80	8444.68	-560.34	-2898.52	2944.33	2952.19		259.06	0.86	0.74			
130	11,485	92.00	269.80	8441.98	-560.67	-2992.48	3037.68	3044.55		259.39	0.74	0.74			
131	11,580	91.40	270.90	8439.16	-560.09	-3087.44	3131.90	3137.83		259.72	1.32	-0.63			
132	11,673	90.70	271.40	8437.46	-558.22	-3180.40	3224.00	3229.02		260.04	0.92	-0.75			
133	11,767	91.20	271.30	8435.90	-556.01	-3274.36	3317.05	3321.24		260.36	0.54	0.53			
134	11,861	91.70	271.10	8433.52	-554.04	-3368.31	3410.11	3413.58		260.66	0.57	0.53			
135	11,956	92.20	270.90	8430.29	-552.38	-3463.24	3504.19	3507.02		260.94	0.57	0.53			

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Company:		Murchison Oil & Gas, LLC										
Well Name:		Rock Ridge Federal BSS #007H										
Location:		Eddy County, NM										
Rig:		Latshaw #7				Magnetic Declination:		6.81		REFERENCED TO GRID NORTH		
Job Number:		MSMO-66371										
API #:		30-015-45731										
Vertical Section Azimuth:				263.24			Proposed Direction:		263.24			
Survey Calculation Method:				Minimum Curvature								
PTB:	MD		INC		AZM		TVD	N/S	E/W		VS	
	13,140		92.1		268.8		8398.44	-551.5	-4646.66		4679.28	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'
136	12,050	92.60	270.70	8426.35	-551.07	-3557.15	3597.29	3599.58	261.19	0.48	0.43	
137	12,144	92.20	271.70	8422.41	-549.10	-3651.05	3690.30	3692.11	261.45	1.14	-0.43	
138	12,239	90.60	270.50	8420.09	-547.28	-3746.00	3784.38	3785.76	261.69	2.11	-1.68	
139	12,333	90.80	270.10	8418.94	-546.79	-3839.99	3877.66	3878.72	261.90	0.48	0.21	
140	12,426	91.20	269.90	8417.32	-546.79	-3932.97	3969.99	3970.80	262.09	0.48	0.43	
141	12,520	91.50	269.80	8415.11	-547.04	-4026.95	4063.34	4063.93	262.26	0.34	0.32	
142	12,614	91.90	269.90	8412.32	-547.28	-4120.91	4156.68	4157.09	262.44	0.44	0.43	
143	12,707	90.60	270.40	8410.29	-547.04	-4213.88	4248.98	4249.24	262.60	1.50	-1.40	
144	12,800	91.00	269.90	8408.99	-546.79	-4306.87	4341.29	4341.44	262.76	0.69	0.43	
145	12,898	91.70	269.50	8406.68	-547.31	-4404.84	4438.64	4438.71	262.92	0.82	0.71	
146	12,992	91.90	269.00	8403.73	-548.54	-4498.79	4532.08	4532.10	263.05	0.57	0.21	
147	13,067	92.10	268.80	8401.11	-549.98	-4573.73	4606.67	4606.67	263.14	0.38	0.27	
PTB:	13,140	92.10	268.80	8398.44	-551.50	-4646.66	4679.28	4679.28	263.23	0.00	0.00	