

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

OCT 29 2019
RECEIVED

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 30-015-45873		² Pool Code 98220	³ Pool Name PURPLE SAGE; WC (GAS)
⁴ Property Code 324982	⁵ Property Name ROCK RIDGE FEDERAL WCXY		⁶ Well Number 6H
⁷ OGRID No. 15363	⁸ Operator Name MURCHISON OIL & GAS, INC.		⁹ Elevation 2914.4

* Surface Location

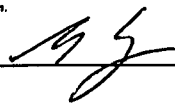
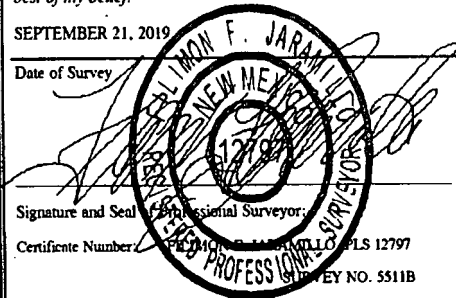
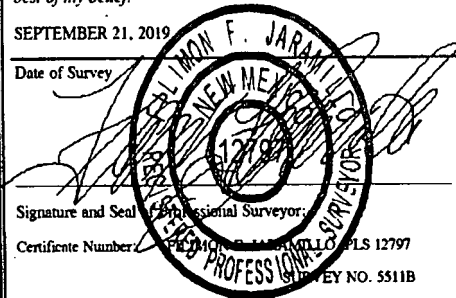
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	24 S	29 E		765	NORTH	250	EAST	EDDY

" 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	1	1301	NORTH	333	WEST	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 NW CORNER SEC. 30 LAT. = 32.1957688°N LONG. = 104.0320931°W N QUARTER CORNER SEC. 30 LAT. = 32.1957641°N LONG. = 104.0236670°W NE CORNER SEC. 30 LAT. = 32.1957674°N LONG. = 104.0151925°W AS-DRILLED LAST TAKE POINT 1302' FNL, 405' FWL LAT. = 32.1921852°N LONG. = 104.0307379°W LTP LOT 1 333' BHL AS-DRILLED BOTTOM OF HOLE LAT. = 32.1921896°N LONG. = 104.0309705°W LOT 2 W QUARTER CORNER SEC. 30 LAT. = 32.1884580°N LONG. = 104.0319969°W LOT 3 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. LOT 4 SW CORNER SEC. 30 LAT. = 32.1811455°N LONG. = 104.0322358°W S QUARTER CORNER SEC. 30 LAT. = 32.1811449°N LONG. = 104.0237181°W SE CORNER SEC. 30 LAT. = 32.1811434°N LONG. = 104.0151360°W AS-DRILLED FIRST TAKE POINT 1319' FNL, 330' FEL LAT. = 32.1921413°N LONG. = 104.0162505°W AS-DRILLED KOP 937' FNL, 192' FEL LAT. = 32.1931924°N LONG. = 104.0158067°W ROCK RIDGE FEDERAL WCXY 6H ELEV. = 2914.4' LAT. = 32.1936646°N (NAD83) LONG. = 104.0159957°W SHL KOP FTP 250' 765' S00°17'08"E 2651.47 FT S00°25'45"E 2669.69 FT S89°50'40"W 2655.71 FT S89°50'31"W 2635.78 FT N00°48'08"W 2658.45 FT N01°25'52"E 2661.78 FT		" 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  Date 10/11/19 Gary R. Cooper 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. SEPTEMBER 21, 2019 Date of Survey  Signature and Seal of Professional Surveyor:  Certificate Number: 12797 Survey No. 5511B
--	--	---



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-66372
Survey Type: MWD
Operating Company: Murchison Oil & Gas, LLC
Well Name & Number: Rock Ridge Federal WCXY #6H
Location: Eddy County, NM
API Number: 30-015-45873
Tie In Depth: Surface
Surveyed Depths: 140' – 14,366' MD
Projected TD Survey: 14,438' MD
Dates Performed: 06/27/2019 – 08/19/2019

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: Snider Zamora

Date: 09-12-2019

Email: Snider.Zamora@msdir.com

CONFIDENTIALITY NOTICE: This document contains MS Directional's proprietary and confidential information and may not be copied, published, distributed or transmitted, in whole or in part, by any medium or in any form without MS Directional's prior written consent. The information contained in this document is not to be used by or disclosed to any individuals other than those who need to know such information and who have been given notice that such information is proprietary and confidential.



SURVEY CALCULATION PROGRAM

9/12/19 19:53

V09.04.02

Company:		Murchison Oil & Gas, LLC													
Well Name:		Rock Ridge Federal WCXY #6H													
Location:		Eddy County, NM													
Rig:		Latshaw #7						Magnetic Declination:		6.81		REFERENCED TO GRID NORTH		▼	
Job Number:		MSMO-66372													
API #:		30-015-45873													
Vertical Section Azimuth:				263.11		Proposed Direction:				263.11					
Survey Calculation Method:				Minimum Curvature											
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS		
	14,438		90.2		271.1		9726.31		-550.03		-4631.77		4664.31		
#	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	140	0.60	323.70	140.00	0.59	-0.43	0.36	0.73	323.70	0.43	0.43				
2	230	1.30	47.70	229.99	1.66	0.04	-0.24	1.66	1.46	1.53	0.78				
3	321	1.40	52.70	320.96	3.03	1.69	-2.04	3.47	29.18	0.17	0.11				
4	399	1.70	56.20	398.93	4.25	3.41	-3.89	5.45	38.76	0.40	0.38				
5	491	1.40	49.20	490.90	5.74	5.39	-6.04	7.88	43.22	0.39	-0.33				
6	581	2.10	118.20	580.87	5.68	7.68	-8.31	9.55	53.51	2.29	0.78				
7	671	2.90	129.20	670.78	3.46	10.90	-11.23	11.43	72.38	1.03	0.89				
8	792	3.00	164.00	791.63	-1.52	14.14	-13.86	14.22	96.12	1.46	0.08				
9	885	2.90	164.40	884.51	-6.12	15.45	-14.60	16.62	111.62	0.11	-0.11				
10	980	4.40	177.40	979.31	-12.08	16.26	-14.69	20.25	126.61	1.79	1.58				
11	1,074	4.90	178.40	1073.00	-19.69	16.53	-14.05	25.71	139.98	0.54	0.53				
12	1,168	5.30	177.30	1166.63	-28.04	16.85	-13.36	32.72	149.00	0.44	0.43				
13	1,262	5.70	181.20	1260.20	-37.05	16.96	-12.39	40.74	155.41	0.58	0.43				
14	1,356	5.60	175.50	1353.74	-46.29	17.22	-11.54	49.38	159.59	0.61	-0.11				
15	1,451	4.10	166.00	1448.40	-54.20	18.40	-11.77	57.24	161.25	1.79	-1.58				
16	1,545	3.80	156.60	1542.18	-60.32	20.45	-13.07	63.70	161.27	0.76	-0.32				
17	1,640	4.10	160.40	1636.95	-66.41	22.84	-14.71	70.23	161.02	0.42	0.32				
18	1,734	4.50	156.80	1730.69	-72.97	25.42	-16.49	77.27	160.79	0.51	0.43				
19	1,827	4.70	160.20	1823.39	-79.90	28.15	-18.36	84.72	160.59	0.36	0.22				
20	1,921	5.40	162.60	1917.02	-87.75	30.78	-20.03	92.99	160.67	0.78	0.74				
21	2,015	5.70	163.00	2010.58	-96.43	33.47	-21.66	102.07	160.86	0.32	0.32				
22	2,109	6.20	164.90	2104.08	-105.80	36.15	-23.20	111.80	161.13	0.57	0.53				
23	2,204	6.00	154.80	2198.54	-115.24	39.60	-25.49	121.86	161.03	1.15	-0.21				
24	2,297	4.80	148.80	2291.13	-122.97	43.69	-28.62	130.50	160.44	1.42	-1.29				
25	2,391	4.70	152.30	2384.80	-129.74	47.52	-31.61	138.17	159.89	0.33	-0.11				
26	2,485	5.40	150.70	2478.44	-137.01	51.47	-34.66	146.36	159.41	0.76	0.74				
27	2,580	4.30	165.90	2573.10	-144.36	54.53	-36.81	154.32	159.31	1.77	-1.16				
28	2,673	4.30	169.80	2665.84	-151.18	55.99	-37.45	161.21	159.68	0.31	0.00				
29	2,768	4.50	172.40	2760.56	-158.38	57.12	-37.71	168.36	160.17	0.30	0.21				
30	2,862	5.00	170.20	2854.24	-166.07	58.30	-37.96	176.00	160.66	0.57	0.53				
31	2,956	3.30	177.50	2947.99	-172.81	59.12	-37.96	182.64	161.11	1.89	-1.81				
32	3,049	3.40	176.60	3040.83	-178.23	59.40	-37.59	187.87	161.57	0.12	0.11				

Page 1



SURVEY CALCULATION PROGRAM

9/12/19 19:53

Company:		Murchison Oil & Gas, LLC									
Well Name:		Rock Ridge Federal WCXY #6H									
Location:		Eddy County, NM									
Rig:		Latshaw #7				Magnetic Declination:		6.81		REFERENCED TO GRID NORTH	
Job Number:		MSMO-66372									
API #:		30-015-45873									
Vertical Section Azimuth:			263.11		Proposed Direction:		263.11				
Survey Calculation Method:			Minimum Curvature								
PTB:	MD	INC		AZM	TVD	N/S	E/W		VS		
	14,438	90.2		271.1	9726.31	-550.03	-4631.77		4664.31		
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'
33	3,142	3.60	178.60	3133.65	-183.91	59.63	-37.14	193.33	162.03	0.25	0.22
34	3,237	4.00	180.00	3228.45	-190.20	59.71	-36.46	199.35	162.57	0.43	0.42
35	3,332	4.00	188.10	3323.22	-196.80	59.24	-35.20	205.52	163.25	0.59	0.00
36	3,426	4.70	174.20	3416.95	-203.87	59.17	-34.28	212.28	163.82	1.34	0.74
37	3,521	5.60	167.80	3511.56	-212.28	60.54	-34.64	220.74	164.08	1.12	0.95
38	3,615	4.00	159.90	3605.23	-219.84	62.63	-35.81	228.59	164.10	1.84	-1.70
39	3,710	3.70	158.00	3700.02	-225.79	64.92	-37.37	234.94	163.96	0.34	-0.32
40	3,804	3.80	160.10	3793.82	-231.53	67.12	-38.86	241.06	163.83	0.18	0.11
41	3,898	3.90	164.40	3887.60	-237.54	69.04	-40.04	247.37	163.79	0.32	0.11
42	3,993	5.20	157.80	3982.30	-244.64	71.53	-41.67	254.88	163.70	1.47	1.37
43	4,087	5.90	154.60	4075.86	-252.95	75.22	-44.33	263.89	163.44	0.81	0.74
44	4,181	6.10	158.00	4169.35	-261.94	79.16	-47.16	273.64	163.19	0.43	0.21
45	4,276	6.40	159.10	4263.78	-271.57	82.94	-49.76	283.95	163.02	0.34	0.32
46	4,369	5.10	158.80	4356.31	-280.26	86.28	-52.04	293.25	162.89	1.40	-1.40
47	4,463	4.90	154.30	4449.95	-287.78	89.53	-54.37	301.38	162.72	0.47	-0.21
48	4,557	5.30	152.90	4543.58	-295.26	93.25	-57.16	309.64	162.47	0.45	0.43
49	4,652	4.20	153.30	4638.25	-302.27	96.82	-59.85	317.40	162.24	1.16	-1.16
50	4,746	4.60	152.20	4731.98	-308.68	100.12	-62.37	324.51	162.03	0.43	0.43
51	4,840	4.30	151.00	4825.69	-315.10	103.59	-65.04	331.69	161.80	0.33	-0.32
52	4,934	4.20	149.10	4919.44	-321.14	107.06	-67.76	338.51	161.56	0.18	-0.11
53	5,029	4.40	147.60	5014.17	-327.20	110.80	-70.75	345.45	161.29	0.24	0.21
54	5,123	4.60	147.20	5107.88	-333.41	114.78	-73.95	352.61	161.00	0.22	0.21
55	5,218	4.50	145.20	5202.58	-339.67	118.97	-77.36	359.90	160.70	0.20	-0.11
56	5,312	4.30	140.60	5296.30	-345.42	123.31	-80.98	366.77	160.35	0.43	-0.21
57	5,406	3.90	144.20	5390.06	-350.74	127.41	-84.42	373.17	160.04	0.51	-0.43
58	5,500	4.10	144.40	5483.83	-356.06	131.24	-87.58	379.48	159.77	0.21	0.21
59	5,595	3.80	142.20	5578.61	-361.31	135.15	-90.83	385.76	159.49	0.35	-0.32
60	5,689	3.70	138.80	5672.41	-366.06	139.05	-94.14	391.58	159.20	0.26	-0.11
61	5,784	3.60	139.30	5767.21	-370.62	143.02	-97.52	397.26	158.90	0.11	-0.11
62	5,879	4.50	148.80	5861.98	-376.07	146.89	-100.72	403.74	158.66	1.18	0.95
63	5,973	5.60	151.30	5955.61	-383.25	151.01	-103.94	411.93	158.49	1.19	1.17
64	6,068	5.50	152.60	6050.16	-391.36	155.33	-107.26	421.06	158.35	0.17	-0.11
65	6,163	5.00	161.80	6144.77	-399.33	158.72	-109.66	429.72	158.32	1.03	-0.53

005.04.02

Company:		Murchison Oil & Gas, LLC												
Well Name:		Rock Ridge Federal WCXY #6H												
Location:		Eddy County, NM												
Rig:		Latshaw #7				Magnetic Declination:		6.81		REFERENCED TO GRID NORTH ▼				
Job Number:		MSMO-66372												
API #:		30-015-45873												
Vertical Section Azimuth:				263.11		Proposed Direction:		263.11						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	14,438		90.2		271.1		9726.31		-550.03		-4631.77		4664.31	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
66	6,257	4.50	160.60	6238.44	-406.70	161.22	-111.27	437.49		158.38	0.54	-0.53		
67	6,352	4.70	160.00	6333.14	-413.88	163.79	-112.96	445.11		158.41	0.22	0.21		
68	6,446	4.50	160.50	6426.84	-420.97	166.34	-114.63	452.64		158.44	0.22	-0.21		
69	6,540	4.50	159.40	6520.55	-427.90	168.87	-116.31	460.01		158.46	0.09	0.00		
70	6,634	4.50	158.40	6614.26	-434.78	171.52	-118.12	467.39		158.47	0.08	0.00		
71	6,729	4.80	159.10	6708.94	-441.96	174.31	-120.03	475.09		158.48	0.32	0.32		
72	6,823	4.80	160.40	6802.61	-449.34	177.03	-121.85	482.95		158.50	0.12	0.00		
73	6,917	4.80	161.60	6896.28	-456.77	179.59	-123.50	490.81		158.54	0.11	0.00		
74	7,012	4.80	162.30	6990.95	-464.33	182.06	-125.04	498.75		158.59	0.06	0.00		
75	7,106	5.00	157.20	7084.61	-471.85	184.84	-126.90	506.77		158.61	0.51	0.21		
76	7,200	4.90	156.30	7178.26	-479.31	188.04	-129.18	514.87		158.58	0.13	-0.11		
77	7,294	4.90	151.40	7271.91	-486.51	191.58	-131.83	522.87		158.51	0.45	0.00		
78	7,389	4.20	158.20	7366.61	-493.30	194.81	-134.23	530.37		158.45	0.93	-0.74		
79	7,483	3.80	166.40	7460.39	-499.52	196.82	-135.47	536.90		158.49	0.74	-0.43		
80	7,578	3.60	158.90	7555.19	-505.37	198.63	-136.57	543.00		158.54	0.55	-0.21		
81	7,672	3.40	163.00	7649.01	-510.78	200.51	-137.79	548.73		158.57	0.34	-0.21		
82	7,766	3.40	163.00	7742.85	-516.12	202.14	-138.77	554.29		158.61	0.00	0.00		
83	7,861	3.50	166.30	7837.68	-521.63	203.65	-139.61	559.97		158.67	0.23	0.11		
84	7,955	3.10	163.80	7931.52	-526.86	205.04	-140.36	565.35		158.74	0.45	-0.43		
85	8,049	2.70	150.60	8025.40	-531.23	206.84	-141.62	570.07		158.73	0.83	-0.43		
86	8,142	2.60	158.00	8118.30	-535.09	208.70	-143.00	574.35		158.69	0.38	-0.11		
87	8,237	2.90	163.00	8213.19	-539.39	210.21	-143.99	578.90		158.71	0.40	0.32		
88	8,331	2.70	166.10	8307.08	-543.81	211.44	-144.68	583.47		158.75	0.27	-0.21		
89	8,426	2.30	155.30	8401.99	-547.71	212.77	-145.53	587.59		158.77	0.65	-0.42		
90	8,520	1.80	151.90	8495.93	-550.73	214.26	-146.64	590.94		158.74	0.55	-0.53		
91	8,615	0.70	121.30	8590.91	-552.35	215.46	-147.64	592.88		158.69	1.32	-1.16		
92	8,709	1.30	114.70	8684.89	-553.09	216.92	-149.00	594.10		158.59	0.65	0.64		
93	8,803	1.20	134.70	8778.87	-554.23	218.58	-150.52	595.77		158.48	0.47	-0.11		
94	8,897	0.50	144.70	8872.86	-555.26	219.52	-151.32	597.07		158.43	0.76	-0.74		
95	8,983	1.00	178.40	8958.85	-556.31	219.76	-151.43	598.14		158.44	0.75	0.58		
96	9,055	1.00	165.70	9030.84	-557.55	219.93	-151.46	599.36		158.47	0.31	0.00		
97	9,150	0.90	163.30	9125.83	-559.07	220.35	-151.69	600.92		158.49	0.11	-0.11		



SURVEY CALCULATION PROGRAM

9/12/19 19:53

V09.04.02

Company:		Murchison Oil & Gas, LLC									
Well Name:		Rock Ridge Federal WCXY #6H									
Location:		Eddy County, NM									
Rig:		Latshaw #7				Magnetic Declination:		6.81		REFERENCED TO GRID NORTH ▼	
Job Number:		MSMO-66372									
API #:		30-015-45873									
Vertical Section Azimuth:				263.11		Proposed Direction:		263.11			
Survey Calculation Method:				Minimum Curvature							
PTB:	MD		INC		AZM	TVD	N/S	E/W		VS	
	14,438		90.2		271.1	9726.31	-550.03	-4631.77		4664.31	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'
98	9,244	0.80	180.20	9219.82	-560.43	220.56	-151.74	602.27	158.52	0.29	-0.11
99	9,339	11.60	276.30	9314.17	-560.04	211.03	-142.32	598.48	159.35	12.33	11.37
100	9,433	18.70	278.40	9404.85	-556.80	186.70	-118.55	587.27	161.46	7.57	7.55
101	9,527	26.50	277.60	9491.56	-551.82	150.95	-83.66	572.09	164.70	8.30	8.30
102	9,621	33.70	270.90	9572.86	-548.63	104.01	-37.45	558.40	169.26	8.44	7.66
103	9,714	44.30	266.90	9645.04	-549.98	45.61	20.70	551.87	175.26	11.71	11.40
104	9,808	57.70	267.90	9704.06	-553.23	-27.20	93.37	553.90	182.81	14.28	14.26
105	9,902	64.40	269.90	9749.54	-554.76	-109.39	175.15	565.44	191.15	7.37	7.13
106	9,997	71.50	268.20	9785.18	-556.25	-197.37	262.67	590.23	199.54	7.66	7.47
107	10,092	80.60	266.50	9808.06	-560.54	-289.36	354.52	630.82	207.30	9.73	9.58
108	10,186	88.50	267.90	9816.98	-565.10	-382.75	447.78	682.52	214.11	8.53	8.40
109	10,281	89.00	269.40	9819.06	-567.34	-477.70	542.31	741.66	220.10	1.66	0.53
110	10,375	89.90	269.50	9819.96	-568.24	-571.69	635.73	806.05	225.17	0.96	0.96
111	10,469	89.70	269.30	9820.29	-569.22	-665.68	729.16	875.87	229.47	0.30	-0.21
112	10,564	92.00	270.20	9818.88	-569.64	-760.66	823.51	950.31	233.17	2.60	2.42
113	10,657	92.80	270.80	9814.98	-568.83	-853.58	915.65	1025.75	236.32	1.07	0.86
114	10,752	91.80	271.30	9811.17	-567.09	-948.48	1009.66	1105.08	239.13	1.18	-1.05
115	10,846	89.20	271.20	9810.35	-565.04	-1042.45	1102.71	1185.74	241.54	2.77	-2.77
116	10,940	89.50	271.00	9811.42	-563.23	-1136.43	1195.79	1268.34	243.64	0.38	0.32
117	11,033	92.30	272.30	9809.96	-560.56	-1229.37	1287.73	1351.13	245.49	3.32	3.01
118	11,128	91.10	271.20	9807.14	-557.66	-1324.28	1381.61	1436.90	247.16	1.71	-1.26
119	11,222	90.80	270.90	9805.58	-555.93	-1418.25	1474.70	1523.31	248.60	0.45	-0.32
120	11,316	92.60	271.60	9802.79	-553.88	-1512.18	1567.70	1610.43	249.88	2.05	1.91
121	11,411	89.90	269.30	9800.72	-553.14	-1607.14	1661.89	1699.66	251.01	3.73	-2.84
122	11,506	91.50	269.50	9799.56	-554.13	-1702.12	1756.31	1790.05	251.97	1.70	1.68
123	11,599	92.60	269.80	9796.23	-554.70	-1795.06	1848.64	1878.81	252.83	1.23	1.18
124	11,693	92.30	269.90	9792.21	-554.95	-1888.97	1941.91	1968.80	253.63	0.34	-0.32
125	11,787	92.40	270.30	9788.36	-554.78	-1982.89	2035.13	2059.04	254.37	0.44	0.11
126	11,882	90.10	270.40	9786.29	-554.20	-2077.86	2129.34	2150.50	255.07	2.42	-2.42
127	11,976	90.10	270.60	9786.12	-553.38	-2171.86	2222.56	2241.25	255.71	0.21	0.00
128	12,071	92.20	271.70	9784.21	-551.48	-2266.81	2316.60	2332.93	256.33	2.50	2.21
129	12,165	90.50	270.50	9782.00	-549.67	-2360.77	2409.66	2423.91	256.89	2.21	-1.81



SURVEY CALCULATION PROGRAM

9/12/19 19:53

Company:		Murchison Oil & Gas, LLC	
Well Name:		Rock Ridge Federal WCXY #6H	
Location:		Eddy County, NM	
Rig:		Latshaw #7	Magnetic Declination: 6.81
Job Number:		MSMO-66372	
API #:		30-015-45873	
Vertical Section Azimuth:		263.11	Proposed Direction: 263.11
Survey Calculation Method:		Minimum Curvature	
PTB:	MD	INC	AZM
	14,438	90.2	271.1
	TVD	N/S	E/W
	9726.31	-550.03	-4631.77
	VS	4664.31	
#	Depth Feet	Inc Degrees	Azm Degrees
		TVD Feet	N/S Feet
		E/W Feet	Surface Vert Sec
		Closure Distance	Azm
		DLS/ 100	BUR/ 100'
130	12,258	92.20	271.40
131	12,352	90.80	270.90
132	12,446	90.10	269.30
133	12,540	88.10	268.90
134	12,634	88.10	269.00
135	12,729	92.20	269.30
136	12,823	90.40	268.30
137	12,917	89.50	268.10
138	13,011	91.90	270.70
139	13,105	92.10	269.00
140	13,200	90.70	267.70
141	13,294	92.20	267.90
142	13,388	93.50	269.70
143	13,480	92.10	268.90
144	13,574	92.30	270.20
145	13,670	92.70	270.40
146	13,764	95.40	270.80
147	13,858	94.30	271.50
148	13,953	91.80	271.50
149	14,047	91.20	271.40
150	14,142	91.00	271.30
151	14,236	90.60	271.30
152	14,330	90.40	271.40
153	14,366	90.20	271.10
PTB:	14,438	90.20	271.10