

Company:		Murchison Oil & Gas, Inc.												
Well Name:		Jackson Unit 30H												
Location:		Lea County, NM												
Rig:		Cactus #136						Magnetic Declination:		6.84		REFERENCED TO GRID NORTH		
Job Number:		DDMO-150490												
API #:		30-025-42652												
Vertical Section Azimuth:				14.79		Proposed Direction:		14.79						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,695		95.2		1.3		10864.6		4751.92		1248.64		4913.23	
#	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	1,230	1.60	122.84	1229.45	-15.45	20.83	-9.62	25.93	126.57					
1	1,321	1.30	114.80	1320.42	-16.57	22.83	-10.19	28.21	125.97	0.40	-0.33			
2	1,412	1.10	112.60	1411.40	-17.34	24.58	-10.49	30.08	125.20	0.23	-0.22			
3	1,503	0.90	119.10	1502.39	-18.02	26.01	-10.79	31.64	124.72	0.25	-0.22			
4	1,597	0.60	123.30	1596.38	-18.65	27.07	-11.13	32.87	124.57	0.32	-0.32			
5	1,691	0.40	116.90	1690.38	-19.07	27.77	-11.35	33.69	124.48	0.22	-0.21			
6	1,786	0.50	153.60	1785.37	-19.59	28.25	-11.73	34.38	124.74	0.31	0.11			
7	1,879	0.40	170.20	1878.37	-20.28	28.48	-12.33	34.96	125.44	0.18	-0.11			
8	1,974	0.10	219.60	1973.37	-20.67	28.49	-12.71	35.20	125.96	0.36	-0.32			
9	2,068	0.20	243.10	2067.37	-20.80	28.29	-12.89	35.12	126.33	0.12	0.11			
10	2,162	0.20	271.20	2161.37	-20.88	27.98	-13.04	34.91	126.73	0.10	0.00			
11	2,258	0.70	275.30	2257.36	-20.82	27.23	-13.18	34.27	127.40	0.52	0.52			
12	2,353	0.70	265.10	2352.36	-20.81	26.07	-13.47	33.36	128.60	0.13	0.00			
13	2,447	1.10	273.10	2446.35	-20.81	24.60	-13.84	32.22	130.24	0.45	0.43			
14	2,543	1.20	278.80	2542.33	-20.61	22.69	-14.14	30.65	132.26	0.16	0.10			
15	2,635	1.50	292.40	2634.30	-20.00	20.62	-14.08	28.73	134.13	0.47	0.33			
16	2,729	1.70	291.20	2728.26	-19.03	18.18	-13.76	26.32	136.31	0.22	0.21			
17	2,825	2.00	279.10	2824.21	-18.25	15.20	-13.77	23.75	140.21	0.51	0.31			
18	2,920	1.50	268.20	2919.17	-18.03	12.32	-14.29	21.84	145.65	0.63	-0.53			
19	3,016	0.50	241.60	3015.15	-18.27	10.70	-14.93	21.17	149.65	1.12	-1.04			
20	3,111	0.70	242.10	3110.15	-18.74	9.82	-15.61	21.15	152.34	0.21	0.21			
21	3,206	0.80	265.20	3205.14	-19.06	8.65	-16.22	20.93	155.60	0.33	0.11			
22	3,301	0.70	287.30	3300.13	-18.95	7.43	-16.42	20.35	158.58	0.32	-0.11			
23	3,395	0.60	302.30	3394.13	-18.51	6.47	-16.25	19.61	160.74	0.21	-0.11			
24	3,490	0.60	283.90	3489.12	-18.13	5.56	-16.11	18.96	162.94	0.20	0.00			
25	3,584	1.30	280.50	3583.11	-18.18	4.03	-16.55	18.63	167.49	0.84	0.74			
26	3,679	1.70	258.60	3678.08	-18.64	1.59	-17.62	18.71	175.13	0.42	0.42			
27	3,774	2.30	249.60	3773.02	-19.58	-1.58	-19.34	19.65	184.61	0.71	0.63			
28	3,869	2.60	235.90	3867.93	-21.46	-5.15	-22.06	22.07	193.50	0.69	0.32			
29	3,964	1.50	239.50	3962.87	-23.30	-8.01	-24.57	24.63	198.96	1.17	-1.16			
30	4,059	1.50	240.10	4057.84	-24.55	-10.15	-26.32	26.56	202.47	0.02	0.00			
31	4,153	2.10	227.50	4151.79	-26.32	-12.49	-28.64	29.14	205.39	0.76	0.64			

10/24/22

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Job Number:		DDMO-150490										
API #:		30-025-42652										
Vertical Section Azimuth:				14.79		Proposed Direction:		14.79				
Survey Calculation Method:				Minimum Curvature								
PTB:	MD		INC		AZM		TVD	N/S		E/W		VS
	15,695		95.2		1.3		10864.6	4751.92		1248.64		4913.23
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'
32	4,246	2.20	220.30	4244.73	-28.84	-14.90	-31.68	32.46	207.33	0.31	0.11	
33	4,340	2.20	187.90	4338.66	-32.00	-16.32	-35.10	35.92	207.02	1.31	0.00	
34	4,435	1.60	170.40	4433.61	-35.11	-16.35	-38.12	38.73	204.96	0.87	-0.63	
35	4,529	2.00	167.90	4527.56	-38.01	-15.78	-40.78	41.16	202.55	0.43	0.43	
36	4,624	1.40	159.60	4622.52	-40.72	-15.03	-43.21	43.40	200.26	0.68	-0.63	
37	4,718	2.40	149.90	4716.47	-43.50	-13.64	-45.54	45.59	197.41	1.11	1.06	
38	4,812	3.80	135.20	4810.33	-47.41	-10.46	-48.51	48.55	192.44	1.70	1.49	
39	4,906	3.40	139.50	4904.14	-51.74	-6.48	-51.68	52.14	187.11	0.51	-0.43	
40	5,000	2.20	145.90	4998.03	-55.35	-3.63	-54.45	55.47	183.76	1.32	-1.28	
41	5,071	1.70	134.50	5068.99	-57.22	-2.12	-55.87	57.26	182.12	0.89	-0.70	
42	5,216	1.50	135.90	5213.93	-60.09	0.74	-57.91	60.10	179.30	0.14	-0.14	
43	5,309	5.60	93.10	5306.74	-61.21	6.12	-57.62	61.52	174.29	4.96	4.41	
44	5,404	7.30	85.20	5401.14	-60.96	16.76	-54.66	63.22	164.63	2.01	1.79	
45	5,498	7.70	86.60	5494.34	-60.08	29.00	-50.69	66.72	154.24	0.47	0.43	
46	5,592	9.10	93.10	5587.33	-60.11	42.71	-47.22	73.74	144.61	1.80	1.49	
47	5,686	11.10	94.30	5679.87	-61.19	59.15	-44.07	85.11	135.97	2.14	2.13	
48	5,780	12.60	91.10	5771.86	-62.07	78.43	-39.99	100.02	128.36	1.74	1.60	
49	5,874	13.00	91.00	5863.53	-62.45	99.25	-35.04	117.26	122.18	0.43	0.43	
50	5,969	13.00	91.40	5956.09	-62.90	120.62	-30.02	136.03	117.54	0.09	0.00	
51	6,063	12.40	91.40	6047.79	-63.40	141.28	-25.24	154.85	114.17	0.64	-0.64	
52	6,158	12.00	93.60	6140.65	-64.27	161.33	-20.96	173.66	111.72	0.65	-0.42	
53	6,252	12.60	96.60	6232.49	-66.06	181.27	-17.60	192.93	110.02	0.93	0.64	
54	6,346	12.70	96.80	6324.21	-68.47	201.71	-14.70	213.02	108.75	0.12	0.11	
55	6,440	12.30	96.00	6415.98	-70.74	221.93	-11.74	232.93	107.68	0.46	-0.43	
56	6,534	12.30	96.00	6507.82	-72.83	241.85	-8.68	252.57	108.76	0.00	0.00	
57	6,628	12.70	95.30	6599.59	-74.83	262.09	-5.44	272.56	105.93	0.46	0.43	
58	6,723	12.50	96.80	6692.30	-77.01	282.70	-2.29	293.00	105.24	0.40	-0.21	
59	6,816	12.20	95.60	6783.15	-79.16	302.47	0.67	312.66	104.67	0.42	-0.32	
60	6,911	12.40	96.60	6875.97	-81.31	322.59	3.73	332.68	104.15	0.31	0.21	
61	7,004	12.10	94.20	6966.85	-83.18	342.23	6.94	352.20	103.66	0.64	-0.32	
62	7,099	13.10	94.20	7059.57	-84.69	362.90	10.75	372.65	103.14	1.05	1.05	
63	7,194	13.20	93.90	7152.07	-86.22	384.46	14.78	394.01	102.64	0.13	0.11	
64	7,289	13.10	95.40	7244.58	-87.97	406.00	18.59	415.42	102.23	0.37	-0.11	

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Company:		Murchison Oil & Gas, Inc.												
Well Name:		Jackson Unit 30H												
Location:		Lea County, NM												
Rig:		Cactus #138				Magnetic Declination:		6.84		REFERENCED TO GRID NORTH				
Job Number:		DDMO-150490												
API #:		30-025-42652												
Vertical Section Azimuth:				14.79		Proposed Direction:		14.79						
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,695		95.2		1.3		10864.6		4751.92		1248.64		4913.23	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance		Azm	DLS/ 100	BUR/ 100'		
85	7,384	13.10	93.90	7337.11	-89.72	427.46	22.38	436.77	101.85	0.36	0.00			
66	7,478	13.00	94.60	7428.68	-91.29	448.63	26.26	457.82	101.50	0.20	-0.11			
67	7,573	13.00	93.80	7521.25	-92.85	469.94	30.19	479.02	101.18	0.19	0.00			
68	7,668	12.60	93.30	7613.89	-94.16	490.95	34.29	499.89	100.86	0.44	-0.42			
69	7,763	13.70	99.00	7706.40	-96.51	512.40	37.49	521.41	100.67	1.79	1.16			
70	7,858	13.30	99.70	7798.77	-100.12	534.29	39.59	543.58	100.61	0.45	-0.42			
71	7,952	12.80	99.80	7890.35	-103.71	555.20	41.46	564.81	100.58	0.53	-0.53			
72	8,046	12.90	94.20	7982.00	-106.25	575.93	44.29	585.65	100.45	1.33	0.11			
73	8,141	13.10	93.50	8074.56	-107.68	597.25	48.35	606.88	100.22	0.27	0.21			
74	8,235	12.40	94.40	8166.24	-109.11	617.95	52.25	627.51	100.01	0.77	-0.74			
75	8,329	12.10	94.80	8258.10	-110.71	637.83	55.78	647.36	99.85	0.33	-0.32			
76	8,422	12.80	95.40	8348.92	-112.49	657.80	59.15	667.35	99.70	0.77	0.75			
77	8,517	12.70	96.80	8441.57	-114.72	678.64	62.32	688.27	99.59	0.34	-0.11			
78	8,612	14.40	97.20	8533.93	-117.44	700.73	65.33	710.51	99.51	1.79	1.79			
79	8,706	14.20	99.20	8625.01	-120.75	723.71	68.00	733.72	99.47	0.57	-0.21			
80	8,799	13.80	99.20	8715.25	-124.34	745.92	70.19	756.21	99.46	0.43	-0.43			
81	8,893	13.20	98.60	8806.65	-127.74	767.60	72.44	778.16	99.45	0.66	-0.64			
82	8,988	13.10	100.50	8899.16	-131.32	788.91	74.42	799.77	99.45	0.47	-0.11			
83	9,082	12.40	100.70	8990.84	-135.14	809.30	75.93	820.51	99.48	0.75	-0.74			
84	9,176	12.60	99.80	9082.62	-138.76	829.32	77.55	840.85	99.50	0.30	0.21			
85	9,272	11.80	100.20	9176.45	-142.28	849.30	79.24	861.14	99.51	0.84	-0.83			
86	9,366	11.30	91.90	9268.55	-144.29	867.97	82.07	879.88	99.44	1.84	-0.53			
87	9,460	11.70	94.10	9360.66	-145.27	886.68	85.89	898.50	99.30	0.63	0.43			
88	9,554	13.10	99.80	9452.47	-147.77	906.68	88.58	918.65	99.26	1.98	1.49			
89	9,649	13.50	103.70	9544.93	-152.23	928.07	89.73	940.47	99.32	1.03	0.42			
90	9,743	13.20	105.20	9636.39	-157.64	949.08	89.86	962.09	99.43	0.49	-0.32			
91	9,884	12.00	99.30	9773.99	-164.23	979.09	91.15	992.76	99.52	1.25	-0.85			
92	9,979	9.90	99.70	9867.26	-167.20	996.88	92.82	1010.81	99.52	2.21	-2.21			
93	10,073	11.50	99.10	9959.82	-170.05	1014.10	94.47	1028.26	99.52	1.71	1.70			
94	10,168	12.80	85.20	10052.51	-170.66	1033.95	98.93	1047.94	99.37	3.36	1.37			
95	10,262	11.20	82.30	10144.45	-168.57	1053.37	105.92	1066.77	99.09	1.82	-1.70			
10	10,400	10.40	79.80	10237.77	-165.81	1070.95	113.07	1083.71		0.98	-0.84			

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Job Number:		DDMO-150490												
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Vertical Section Azimuth:					14.79		Proposed Direction:		14.79					
Survey Calculation Method:					Minimum Curvature									
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,695		95.2		1.3		10864.6		4751.92		1248.64		4913.23	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'			
97	10,452	10.80	77.70	10331.15	-162.40	1088.09	120.75	1100.14	98.49	0.59	0.42			
98	10,500	17.00	68.20	10377.73	-158.83	1099.01	126.98	1110.43	98.22	13.72	12.92			
99	10,547	21.40	56.60	10422.12	-151.55	1112.56	137.48	1122.83	97.76	12.35	9.36			
100	10,595	25.40	49.10	10466.17	-139.99	1127.66	152.52	1136.32	97.08	10.37	8.33			
101	10,642	28.80	41.20	10508.02	-124.86	1142.75	171.00	1149.55	96.24	10.52	7.23			
102	10,690	32.70	35.10	10549.27	-105.54	1157.83	193.52	1162.63	95.21	10.39	8.13			
103	10,736	37.20	28.00	10586.98	-83.07	1171.51	218.74	1174.45	94.06	13.17	9.78			
104	10,784	40.00	19.90	10624.52	-55.73	1183.59	248.26	1184.90	92.70	12.03	5.83			
105	10,831	41.20	12.80	10660.22	-26.42	1192.16	278.79	1192.45	91.27	10.15	2.55			
106	10,879	43.00	7.90	10695.84	5.22	1197.92	310.85	1197.93	89.75	7.80	3.75			
107	10,926	46.30	5.30	10729.28	38.03	1201.69	343.53	1202.29	88.19	8.02	7.02			
108	10,974	49.50	2.60	10761.46	73.55	1204.12	378.49	1206.36	86.50	7.86	6.67			
109	11,021	53.40	2.00	10790.74	110.27	1205.59	414.37	1210.62	84.77	8.36	8.30			
110	11,069	57.40	2.20	10817.99	149.74	1207.04	452.91	1216.29	82.93	8.34	8.33			
111	11,115	61.80	2.30	10841.27	189.38	1208.60	491.63	1223.34	81.09	9.57	9.57			
112	11,163	65.80	1.00	10862.45	232.42	1209.83	533.56	1231.95	79.13	8.68	8.33			
113	11,210	69.40	359.80	10880.36	275.86	1210.13	575.64	1241.17	77.16	8.01	7.66			
114	11,256	73.00	2.20	10895.19	319.39	1210.90	617.92	1252.31	75.22	9.25	7.83			
115	11,305	75.60	2.60	10908.44	366.52	1212.87	663.99	1267.04	73.19	5.36	5.31			
116	11,353	79.70	2.40	10918.71	413.35	1214.92	709.80	1283.31	71.21	8.55	8.54			
117	11,401	84.10	2.50	10925.47	460.82	1216.95	756.21	1301.27	69.26	9.17	9.17			
118	11,495	89.10	3.20	10931.04	554.51	1221.61	847.98	1341.57	65.59	5.37	5.32			
119	11,590	90.30	2.40	10931.54	649.39	1226.25	940.91	1387.59	62.10	1.52	1.26			
120	11,684	90.40	2.30	10930.97	743.31	1230.11	1032.70	1437.24	58.86	0.15	0.11			
121	11,779	91.40	2.10	10929.47	838.23	1233.75	1125.40	1491.57	55.81	1.07	1.05			
122	11,873	91.70	1.80	10926.93	932.14	1236.95	1217.02	1548.85	53.00	0.45	0.32			
123	11,967	91.60	1.60	10924.23	1026.06	1239.74	1308.54	1609.27	50.39	0.24	-0.11			
124	12,062	91.30	1.20	10921.82	1121.00	1242.06	1400.93	1673.12	47.93	0.53	-0.32			
125	12,156	91.40	0.80	10919.61	1214.96	1243.70	1492.19	1738.65	45.67	0.44	0.11			
126	12,251	90.90	0.20	10917.70	1309.93	1244.53	1584.23	1806.87	43.53	0.82	-0.53			
127	12,345	91.40	0.40	10915.81	1403.91	1245.02	1522	1876.44	41.57	0.57	0.53			
1	12,440	00	0.40	10914.65	1498.90	1245	1767.23	1948.96	73	1.47	-1.47			

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	15,695		95.2		1.3	10864.6	4751.92	1248.64		4913.23		
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance Azm		DLS/ 100	BUR/ 100'	
129	12,534	90.30	0.20	10914.41	1592.90	1246.18	1858.24	2022.44	38.04	0.38	0.32	
130	12,629	90.40	0.10	10913.83	1687.90	1246.42	1950.16	2098.23	36.44	0.15	0.11	
131	12,724	90.90	0.20	10912.75	1782.89	1246.67	2042.07	2175.52	34.96	0.54	0.53	
132	12,819	91.50	359.90	10910.78	1877.87	1246.76	2133.92	2254.06	33.58	0.71	0.63	
133	12,914	91.00	1.00	10908.69	1972.84	1247.50	2225.94	2334.17	32.31	1.27	-0.53	
134	13,008	90.20	0.20	10907.70	2066.83	1248.49	2317.06	2414.64	31.13	1.20	-0.85	
135	13,103	90.50	359.70	10907.12	2161.83	1248.40	2408.89	2496.40	30.01	0.61	0.32	
136	13,197	91.30	359.80	10905.65	2255.81	1247.99	2499.66	2578.02	28.95	0.86	0.85	
137	13,291	90.50	359.60	10904.17	2349.80	1247.50	2590.40	2660.42	27.96	0.88	-0.85	
138	13,385	91.20	359.50	10902.77	2443.79	1246.76	2681.09	2743.45	27.03	0.75	0.74	
139	13,480	90.20	359.20	10901.61	2538.77	1245.68	2772.65	2827.91	26.14	1.10	-1.05	
140	13,574	90.70	358.90	10900.88	2632.76	1244.13	2863.12	2911.92	25.29	0.62	0.53	
141	13,668	91.50	358.50	10899.07	2726.71	1241.99	2953.42	2996.25	24.49	0.95	0.85	
142	13,763	90.80	358.80	10897.16	2821.67	1239.76	3044.66	3082.01	23.72	0.80	-0.74	
143	13,857	89.80	359.00	10896.67	2915.65	1237.95	3135.07	3167.57	23.01	1.08	-1.06	
144	13,951	90.20	358.80	10896.67	3009.63	1236.15	3225.47	3253.60	22.33	0.48	0.43	
145	14,046	89.70	358.30	10896.76	3104.60	1233.74	3316.68	3340.76	21.67	0.74	-0.53	
146	14,140	90.20	358.00	10896.84	3198.55	1230.71	3406.75	3427.15	21.05	0.62	0.53	
147	14,234	89.80	358.80	10897.00	3292.51	1228.08	3496.93	3514.09	20.46	1.06	-0.64	
148	14,328	89.10	359.60	10898.07	3386.49	1226.77	3587.46	3601.85	19.91	1.00	-0.53	
149	14,423	89.70	359.70	10899.06	3481.49	1226.19	3679.16	3691.11	19.40	0.64	0.63	
150	14,518	88.70	0.70	10900.39	3576.48	1226.52	3771.08	3780.94	18.93	1.49	-1.05	
151	14,607	89.50	359.60	10901.79	3665.46	1226.76	3857.18	3865.30	18.50	1.53	0.90	
152	14,701	89.40	1.10	10902.69	3759.45	1227.33	3948.20	3954.72	18.08	1.60	-0.11	
153	14,796	89.80	1.10	10903.35	3854.43	1229.15	4040.50	4045.67	17.69	0.42	0.42	
154	14,890	90.00	1.10	10903.52	3948.42	1230.96	4131.83	4135.85	17.32	0.21	0.21	
155	14,984	91.00	0.30	10902.70	4042.40	1232.11	4223.00	4226.00	16.95	1.36	1.06	
156	15,078	91.00	1.20	10901.06	4136.38	1233.34	4314.18	4316.34	16.60	0.96	0.00	
157	15,173	91.70	1.90	10898.82	4231.32	1235.91	4406.62	4408.12	16.28	1.04	0.74	
158	15,267	92.40	1.80	10895.46	4325.21	1238.94	4498.18	4499.15	15.98	0.75	0.74	
159	15,361	93.10	0.90	10890.95	4419.07	1241.15	4589.50	4590.06	15.69	1.21	0.74	
160	15,493	94.50	1.50	10882.20	4550.75	1243.91	4717.51	4717.69	15.29	1.15	1.06	

Company:	Murchison Oil & Gas, Inc.													
Well Name:	Jackson Unit 30H													
Location:	Lea County, NM													
Rig:	Cactus #136													
Job Number:	DDMO-150490													
API #:	30-025-42852													
Vertical Section Azimuth:				14.79		Proposed Direction:				14.79				
Survey Calculation Method:				Minimum Curvature										
PTB:	MD		INC		AZM		TVD		N/S		E/W		VS	
	15,695		95.2		1.3		10864.6		4751.92		1248.64		4913.23	
#	Depth Feet	Inc Degrees	Azm Degrees	TVD Feet	N/S Feet	E/W Feet	Surface Vert Sec	Closure Distance	Azm	DLS/ 100	BUR/ 100'			
161	15,587	95.10	1.30	10874.33	4844.39	1246.20	4808.64	4808.68	15.02	0.67	0.64			
162	15,647	95.20	1.30	10868.95	4704.13	1247.55	4866.75	4866.75	14.85	0.17	0.17			