



MEWBOURNE
OIL COMPANY

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 28 2019

5D Survey Report

RECEIVED

30-015-43750

Mewbourne Oil Company

Field Name: *Mewbourne Oil Company (Nad 83 NMEZ)*

Site Name: *Armstrong 26/35 Pad*

Well Name: *Armstrong 26-35 W0LM Fed Com #1H*

File number: *13322133*

Survey: *Definitive survey*

2 September 2018





Drilling Services
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Mewbourne Oil Co.
PO Box 5270
Hobbs, NM 88241

Date: September 2, 2018

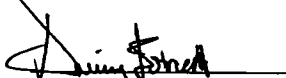
Attention: Levi Jackson

Re: Mewbourne Oil Co.
Well: Armstrong 26-35 WOLM Fed Com #1H
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Richard Nwachukwu MWD Supervisor	1H	1,042 MD 19,194 MD	7/30/2018 8/31/2018	Measurement While Drilling

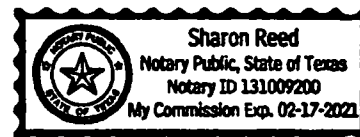
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Domingo Estrada
MWD Ops. Coordinator

On this, the 4th day of September, 2018, before me a notary public, the undersigned officer, personally appeared Domingo Estrada, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public





Armstrong 26-35 WOLM Fed Com #1H

Field Name: Mewbourne Oil Company (Nad 83 NMEZ)	Map Units: US ft		Company Name: Mewbourne Oil Company	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Armstrong 26/35 Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.31	
	Position:	Northing: 400917.50 US ft	Latitude: 32.100886559	
		Easting: 720057.30 US ft	Longitude: -103.756167065	
	Elevation above MSL: 3331.00 US ft		Comment: Eddy Co., New Mexico	
Slot: Armstrong 26-35 WOLM Fed Com #1H	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 400917.50 US ft	Latitude: 32.100886559	
	+E/-W: 0.00 US ft	Easting: 720057.30 US ft	Longitude: -103.756167065	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3331.00 US ft			
	Comment:			
Well: Armstrong 26-35 WOLM Fed Com #1H	Type: Main well		UWI:	
	File Number: 13322133	Comment: Patterson 231		
	Closure Distance: 7471.39US ft		Closure Azimuth: 174.54°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 175.12°

Drill floor: Survey Name: Definitive Survey

Rig Height (Drill Floor): 27.00 US ft **Elevation above MSL:** 3358.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Survey Name: Definitive Survey

Date: 23/Jul/2018 **Survey Tool:** See Survey Tool Ranges below. **Comment:** **Company:**

Magnetic Model:

Model Name: bggm2018 **Date:** 05/Aug/2018 **Field Strength:** 47767.2 nT **Declination:** 6.99° **Dip:** 59.85°

Tie Point:

MD: 0.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00° **TVD:** 0.00 US ft **North Offset:** 0.00 US ft **East Offset:** 0.00 US ft

Survey Tool Ranges:

Name	Start MD(usft)	End MD(usft)	Source Survey
GYRO-NS_OW	0.00	923.00	Phoenix Gyro
MWD	923.00	4192.00	MWD 1
MWD	4192.00	8914.00	MWD 2

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Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	8914.00	9296.00	MWD 3
MWD	9296.00	11149.00	MWD 4
MWD	11149.00	11937.00	MWD 5
MWD	11937.00	12133.00	MWD 6
MWD	12133.00	12343.00	MWD 7
MWD	12343.00	12763.00	MWD 8
MWD	12763.00	15396.00	MWD 9
MWD	15396.00	15723.00	MWD 10
MWD	15723.00	16964.00	MWD 11
MWD	16964.00	19265.00	MWD 12

Casing Points: (Relative to Slot centre)(TVD relative to Drill Floor)								
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)
13 3/8 in	996.00	0.54	178.45	995.99	-1.72	-1.89	400915.78	720055.41
9 5/8 in	4248.00	0.60	125.71	4247.84	-5.26	2.90	400912.24	720060.20
7 in	11984.00	74.53	172.50	11750.79	-206.16	622.79	400711.34	720680.09

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment	
0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00	400917.50	720057.30		
98.00	0.11	40.73	98.00	-0.07	0.07	0.06	0.11	400917.57	720057.36		
198.00	0.29	301.03	198.00	-0.28	0.27	-0.09	0.33	400917.77	720057.21		
298.00	0.22	329.28	298.00	-0.60	0.57	-0.41	0.14	400918.07	720056.89		
398.00	0.13	285.02	398.00	-0.81	0.76	-0.62	0.16	400918.26	720056.68		
498.00	0.06	155.87	498.00	-0.80	0.75	-0.70	0.17	400918.25	720056.60		
598.00	0.26	210.46	598.00	-0.57	0.50	-0.80	0.23	400918.00	720056.50		
698.00	0.30	200.82	698.00	-0.15	0.06	-1.01	0.06	400917.56	720056.29		
798.00	0.29	222.20	798.00	0.26	-0.37	-1.27	0.11	400917.13	720056.03		
898.00	0.39	242.96	897.99	0.56	-0.71	-1.74	0.16	400916.79	720055.56		
923.00	0.74	187.17	922.99	0.75	-0.91	-1.84	2.45	400916.59	720055.46	Phoenix Gyro	
1042.00	0.43	168.98	1041.99	1.95	-2.11	-1.85	0.30	400915.39	720055.45	First WFT MWD Svy	
1137.00	0.38	149.42	1136.98	2.59	-2.73	-1.62	0.15	400914.77	720055.68		
1232.00	0.40	125.27	1231.98	3.08	-3.20	-1.19	0.17	400914.30	720056.11		
1327.00	0.43	126.72	1326.98	3.53	-3.60	-0.63	0.03	400913.90	720056.67		
1422.00	0.36	134.93	1421.98	4.00	-4.02	-0.13	0.09	400913.48	720057.17		
1517.00	0.22	163.05	1516.98	4.40	-4.41	0.13	0.21	400913.09	720057.43		
1611.00	0.29	162.75	1610.97	4.81	-4.81	0.25	0.07	400912.69	720057.55		
1705.00	0.29	162.10	1704.97	5.28	-5.26	0.40	0.00	400912.24	720057.70		
1800.00	0.45	172.32	1799.97	5.88	-5.86	0.52	0.18	400911.64	720057.82		
1897.00	0.35	148.20	1896.97	6.53	-6.49	0.73	0.20	400911.01	720058.03		
1992.00	0.42	130.16	1991.97	7.03	-6.96	1.15	0.15	400910.54	720058.45		
2088.00	0.25	125.80	2087.97	7.42	-7.31	1.58	0.18	400910.19	720058.88		
2183.00	0.56	151.41	2182.96	7.98	-7.84	1.98	0.37	400909.66	720059.28		
2278.00	0.70	158.69	2277.96	8.96	-8.79	2.41	0.17	400908.71	720059.71		
2373.00	0.63	157.30	2372.95	10.01	-9.81	2.82	0.08	400907.69	720060.12		
2468.00	0.70	332.85	2467.95	9.98	-9.78	2.76	1.40	400907.72	720060.06		
2563.00	1.11	324.49	2562.94	8.65	-8.51	1.96	0.45	400908.99	720059.26		
2658.00	0.95	326.40	2657.92	7.16	-7.11	0.99	0.17	400910.39	720058.29		
2753.00	0.78	299.74	2752.91	6.11	-6.13	-0.01	0.45	400911.37	720057.29		
2847.00	0.55	301.95	2846.90	5.47	-5.57	-0.95	0.25	400911.93	720056.35		
2943.00	0.70	296.05	2942.90	4.89	-5.07	-1.87	0.17	400912.43	720055.43		
3038.00	0.51	282.58	3037.89	4.47	-4.72	-2.80	0.25	400912.78	720054.50		
3134.00	0.45	292.54	3133.89	4.17	-4.49	-3.56	0.11	400913.01	720053.74		
3229.00	0.44	347.41	3228.89	3.63	-3.99	-3.99	0.43	400913.51	720053.31		
3323.00	0.36	342.97	3322.89	2.99	-3.35	-4.15	0.09	400914.15	720053.15		

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
3418.00	0.35	13.12	3417.88	2.42	-2.79	-4.18	0.19	400914.71	720053.12	
3514.00	0.16	18.53	3513.88	2.02	-2.37	-4.07	0.20	400915.13	720053.23	
3609.00	0.41	80.68	3608.88	1.87	-2.19	-3.69	0.38	400915.31	720053.61	
3704.00	0.77	101.43	3703.88	2.02	-2.26	-2.73	0.43	400915.24	720054.57	
3799.00	0.63	90.36	3798.87	2.25	-2.39	-1.58	0.20	400915.11	720055.72	
3894.00	0.79	109.34	3893.86	2.57	-2.61	-0.44	0.30	400914.89	720056.86	
3989.00	0.87	137.38	3988.85	3.41	-3.36	0.67	0.43	400914.14	720057.97	
4084.00	0.70	128.58	4083.84	4.37	-4.25	1.61	0.22	400913.25	720058.91	
4178.00	0.50	131.88	4177.84	5.07	-4.89	2.36	0.22	400912.61	720059.66	
4192.00	0.49	122.96	4191.84	5.15	-4.96	2.46	0.55	400912.54	720059.76	
4363.00	0.82	129.09	4362.83	6.45	-6.13	4.02	0.20	400911.37	720061.32	
4457.00	0.77	50.34	4456.82	6.55	-6.15	5.03	1.07	400911.35	720062.33	
4552.00	1.11	48.36	4551.81	5.64	-5.13	6.21	0.36	400912.37	720063.51	
4647.00	2.38	60.20	4646.76	4.26	-3.54	8.61	1.38	400913.96	720065.91	
4742.00	3.50	62.38	4741.63	2.31	-1.21	12.89	1.18	400916.29	720070.19	
4836.00	4.79	60.36	4835.39	-0.45	2.06	18.84	1.38	400919.56	720076.14	
4931.00	4.71	62.82	4930.06	-3.59	5.80	25.76	0.23	400923.30	720083.06	
5120.00	5.84	52.58	5118.26	-11.71	15.19	40.30	0.78	400932.69	720097.60	
5214.00	5.90	50.55	5211.77	-17.02	21.16	47.83	0.23	400938.66	720105.13	
5309.00	5.45	51.69	5306.30	-22.27	27.06	55.14	0.49	400944.56	720112.44	
5404.00	5.41	48.62	5400.88	-27.42	32.82	62.04	0.31	400950.32	720119.34	
5499.00	5.56	56.75	5495.44	-32.27	38.30	69.25	0.83	400955.80	720126.55	
5593.00	5.67	58.49	5588.99	-36.52	43.23	77.02	0.22	400960.73	720134.32	
5687.00	5.49	59.78	5682.55	-40.53	47.92	84.86	0.23	400965.42	720142.16	
5782.00	5.56	60.82	5777.11	-44.36	52.45	92.81	0.13	400969.95	720150.11	
5876.00	5.54	60.20	5870.66	-48.15	56.92	100.72	0.07	400974.42	720158.02	
5971.00	4.88	61.75	5965.27	-51.69	61.12	108.26	0.71	400978.62	720165.56	
6066.00	4.76	61.02	6059.94	-54.90	64.94	115.27	0.14	400982.44	720172.57	
6161.00	4.61	62.39	6154.62	-57.98	68.62	122.10	0.20	400986.12	720179.40	
6256.00	4.66	61.77	6249.31	-60.99	72.21	128.88	0.07	400989.71	720186.18	
6350.00	4.33	63.86	6343.02	-63.79	75.58	135.43	0.39	400993.08	720192.73	
6445.00	4.01	58.73	6437.77	-66.56	78.89	141.49	0.52	400996.39	720198.79	
6540.00	4.24	45.86	6532.52	-70.26	83.06	146.85	1.00	401000.56	720204.15	
6635.00	5.26	54.22	6627.20	-74.72	88.05	152.90	1.29	401005.55	720210.20	
6730.00	4.83	54.69	6721.83	-78.98	92.91	159.70	0.45	401010.41	720217.00	
6825.00	4.21	59.02	6816.53	-82.54	97.01	165.95	0.74	401014.51	720223.25	
6920.00	3.98	60.15	6911.29	-85.47	100.45	171.80	0.26	401017.95	720229.10	
7016.00	4.86	63.81	7007.00	-88.35	103.90	178.34	0.96	401021.40	720235.64	
7111.00	5.43	65.39	7101.62	-91.33	107.55	186.04	0.62	401025.05	720243.34	
7206.00	4.96	57.74	7196.23	-94.74	111.61	193.60	0.88	401029.11	720250.90	
7301.00	4.97	53.37	7290.88	-98.79	116.26	200.37	0.40	401033.76	720257.67	
7396.00	5.10	62.34	7385.51	-102.59	120.68	207.41	0.84	401038.18	720264.71	
7492.00	5.37	64.56	7481.11	-105.82	124.59	215.25	0.35	401042.09	720272.55	
7586.00	5.47	69.14	7574.69	-108.60	128.07	223.41	0.47	401045.57	720280.71	
7681.00	5.48	69.18	7669.26	-111.09	131.30	231.88	0.01	401048.80	720289.18	
7776.00	5.14	62.78	7763.85	-113.96	134.86	239.90	0.72	401052.36	720297.20	
7870.00	4.92	65.64	7857.49	-116.90	138.44	247.32	0.35	401055.94	720304.62	
7966.00	5.33	56.00	7953.11	-120.45	142.64	254.77	0.99	401060.14	720312.07	
8061.00	5.07	56.39	8047.71	-124.61	147.43	261.92	0.28	401064.93	720319.22	
8156.00	4.71	55.32	8142.37	-128.57	151.97	268.62	0.39	401069.47	720325.92	
8250.00	4.83	61.01	8236.04	-132.10	156.08	275.26	0.52	401073.58	720332.56	
8344.00	4.33	56.82	8329.74	-135.40	159.94	281.69	0.64	401077.44	720338.99	
8439.00	4.47	55.38	8424.46	-138.94	164.01	287.74	0.19	401081.51	720345.04	
8534.00	5.12	61.70	8519.13	-142.46	168.12	294.52	0.88	401085.62	720351.82	
8630.00	4.85	61.88	8614.77	-145.76	172.07	301.87	0.28	401089.57	720359.17	
8724.00	3.37	68.06	8708.52	-148.14	174.97	307.94	1.64	401092.47	720365.24	
8819.00	3.01	71.58	8803.38	-149.54	176.80	312.89	0.43	401094.30	720370.19	
8914.00	3.28	67.98	8898.23	-150.93	178.61	317.78	0.35	401096.11	720375.08	
9010.00	2.38	55.66	8994.12	-152.72	180.76	321.97	1.13	401098.26	720379.27	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
9106.00	2.02	56.62	9090.05	-154.51	182.82	325.03	0.38	401100.32	720382.33	
9201.00	1.77	58.51	9184.99	-155.96	184.51	327.68	0.27	401102.01	720384.98	
9296.00	2.87	47.67	9279.91	-158.07	186.87	330.69	1.24	401104.37	720387.99	
9391.00	4.60	53.89	9374.71	-161.49	190.72	335.53	1.87	401108.22	720392.83	
9485.00	6.06	55.11	9468.30	-165.92	195.78	342.64	1.56	401113.28	720399.94	
9579.00	7.02	59.74	9561.69	-170.87	201.51	351.67	1.16	401119.01	720408.97	
9673.00	6.98	59.67	9654.99	-175.78	207.29	361.56	0.04	401124.79	720418.86	
9767.00	5.88	59.83	9748.40	-180.30	212.60	370.66	1.17	401130.10	720427.96	
9861.00	6.39	63.47	9841.86	-184.28	217.35	379.50	0.68	401134.85	720436.80	
9955.00	6.55	67.13	9935.26	-187.87	221.77	389.12	0.47	401139.27	720446.42	
10051.00	5.34	64.54	10030.74	-191.13	225.82	398.20	1.29	401143.32	720455.50	
10144.00	5.01	69.69	10123.36	-193.73	229.09	405.91	0.61	401146.59	720463.21	
10238.00	3.67	77.15	10217.09	-195.24	231.19	412.70	1.54	401148.69	720470.00	
10332.00	3.88	86.72	10310.89	-195.57	232.04	418.80	0.71	401149.54	720476.10	
10427.00	4.61	90.75	10405.63	-195.10	232.17	425.83	0.83	401149.67	720483.13	
10521.00	5.18	94.23	10499.28	-194.06	231.81	433.84	0.68	401149.31	720491.14	
10616.00	5.01	107.35	10593.91	-191.81	230.26	442.08	1.24	401147.76	720499.38	
10710.00	5.01	117.03	10687.55	-188.09	227.17	449.65	0.90	401144.67	720506.95	
10805.00	4.53	119.85	10782.22	-183.76	223.41	456.60	0.56	401140.91	720513.90	
10900.00	3.65	122.22	10876.98	-179.80	219.93	462.41	0.94	401137.43	720519.71	
10994.00	2.92	131.62	10970.83	-176.26	216.75	466.73	0.96	401134.25	720524.03	
11088.00	2.55	143.86	11064.72	-172.73	213.47	469.76	0.73	401130.97	720527.06	
11149.00	2.59	145.02	11125.66	-170.38	211.24	471.35	0.11	401128.74	720528.65	
11178.00	2.51	150.39	11154.63	-169.24	210.16	472.04	0.87	401127.66	720529.34	
11210.00	2.53	151.87	11186.60	-167.95	208.92	472.72	0.21	401126.42	720530.02	
11242.00	4.76	163.79	11218.53	-166.00	207.02	473.42	7.32	401124.52	720530.72	
11273.00	6.51	162.89	11249.38	-163.02	204.11	474.30	5.65	401121.61	720531.60	
11304.00	9.15	156.05	11280.09	-158.97	200.18	475.81	9.02	401117.68	720533.11	
11336.00	12.46	154.40	11311.52	-153.34	194.74	478.34	10.39	401112.24	720535.64	
11368.00	15.76	155.61	11342.55	-146.01	187.66	481.63	10.35	401105.16	720538.93	
11399.00	18.08	157.00	11372.21	-137.47	179.40	485.24	7.60	401096.90	720542.54	
11431.00	21.75	157.07	11402.29	-127.11	169.37	489.50	11.47	401086.87	720546.80	
11462.00	25.45	157.57	11430.69	-115.30	157.92	494.28	11.95	401075.42	720551.58	
11494.00	28.41	157.65	11459.22	-101.48	144.52	499.80	9.25	401062.02	720557.10	
11525.00	30.58	153.94	11486.20	-87.09	130.61	506.07	9.15	401048.11	720563.37	
11557.00	33.45	152.83	11513.33	-71.33	115.45	513.67	9.15	401032.95	720570.97	
11589.00	36.75	153.84	11539.51	-54.25	99.00	521.92	10.47	401016.50	720579.22	
11620.00	39.88	155.62	11563.83	-36.23	81.62	530.11	10.71	400999.12	720587.41	
11652.00	42.23	154.81	11587.96	-16.47	62.55	538.93	7.53	400980.05	720596.23	
11684.00	45.21	153.98	11611.08	4.21	42.61	548.49	9.48	400960.11	720605.79	
11715.00	48.84	155.13	11632.21	25.44	22.13	558.22	12.02	400939.63	720615.52	
11747.00	52.10	156.71	11652.58	48.75	-0.41	568.29	10.88	400917.09	720625.59	
11779.00	55.35	158.53	11671.51	73.35	-24.26	578.10	11.14	400893.24	720635.40	
11811.00	59.74	160.69	11688.68	99.36	-49.57	587.49	14.85	400867.93	720644.79	
11843.00	63.63	162.77	11703.85	126.76	-76.31	596.31	13.43	400841.19	720653.61	
11874.00	67.32	165.04	11716.72	154.42	-103.41	604.12	13.64	400814.09	720661.42	
11906.00	71.05	168.03	11728.09	183.99	-132.49	611.07	14.56	400785.01	720668.37	
11937.00	73.02	171.19	11737.66	213.34	-161.49	616.39	11.59	400756.01	720673.69	
12008.00	75.30	173.16	11757.04	281.54	-229.15	625.68	4.18	400688.35	720682.98	
12039.00	75.08	173.43	11764.96	311.50	-258.91	629.18	1.10	400658.59	720686.48	
12070.00	74.64	173.68	11773.06	341.41	-288.65	632.54	1.62	400628.85	720689.84	
12101.00	74.13	171.90	11781.40	371.24	-318.27	636.28	5.77	400599.23	720693.58	
12133.00	73.20	168.92	11790.40	401.84	-348.54	641.40	9.40	400568.96	720698.70	
12186.00	70.39	163.36	11806.97	451.55	-397.40	653.43	11.29	400520.10	720710.73	
12217.00	72.03	162.53	11816.96	480.23	-425.46	662.04	5.87	400492.04	720719.34	
12249.00	75.09	164.30	11826.01	510.28	-454.87	670.79	10.94	400462.63	720728.09	
12280.00	78.52	164.67	11833.09	539.94	-483.94	678.87	11.13	400433.56	720736.17	
12312.00	82.29	167.89	11838.42	571.11	-514.59	686.34	15.40	400402.91	720743.64	
12343.00	86.99	169.59	11841.32	601.77	-544.85	692.37	16.11	400372.65	720749.67	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
12385.00	91.61	171.95	11841.83	643.63	-586.29	699.10	12.35	400331.21	720756.40	
12416.00	92.87	172.98	11840.62	674.58	-617.00	703.16	5.25	400300.50	720760.46	
12479.00	92.38	173.17	11837.73	737.47	-679.47	710.75	0.83	400238.03	720768.05	
12574.00	87.97	174.82	11837.44	832.42	-773.92	720.68	4.96	400143.58	720777.98	
12669.00	86.57	177.62	11841.97	927.29	-868.60	726.94	3.29	400048.90	720784.24	
12763.00	85.31	183.74	11848.63	1020.56	-962.31	725.83	6.63	399955.19	720783.13	
12857.00	86.92	191.01	11855.01	1112.14	-1055.25	713.80	7.90	399862.25	720771.10	
12888.00	86.22	190.60	11856.86	1141.94	-1085.64	708.00	2.62	399831.86	720765.30	
12919.00	86.15	189.56	11858.93	1171.82	-1116.10	702.58	3.36	399801.40	720759.88	
12950.00	88.39	187.75	11860.40	1201.92	-1146.71	697.92	9.29	399770.79	720755.22	
12982.00	91.12	186.10	11860.54	1233.24	-1178.47	694.07	9.97	399739.03	720751.37	
13045.00	99.77	184.49	11854.57	1294.91	-1240.85	688.28	13.96	399676.65	720745.58	
13139.00	99.77	185.82	11838.61	1386.12	-1333.11	679.95	1.39	399584.39	720737.25	
13171.00	99.91	186.65	11833.15	1417.06	-1364.46	676.53	2.59	399553.04	720733.83	
13202.00	99.99	186.69	11827.79	1446.98	-1394.78	672.98	0.29	399522.72	720730.28	
13234.00	99.99	187.44	11822.24	1477.81	-1426.06	669.11	2.31	399491.44	720726.41	
13265.00	99.27	188.05	11817.05	1507.63	-1456.34	664.99	3.03	399461.16	720722.29	
13297.00	98.99	188.14	11811.97	1538.42	-1487.62	660.54	0.92	399429.88	720717.84	
13328.00	96.73	186.80	11807.73	1568.42	-1518.07	656.55	8.45	399399.43	720713.85	
13360.00	96.73	186.58	11803.98	1599.55	-1549.63	652.85	0.68	399367.87	720710.15	
13391.00	95.12	185.53	11800.78	1629.82	-1580.29	649.59	6.19	399337.21	720706.89	
13422.00	92.10	184.53	11798.83	1660.30	-1611.11	646.88	10.26	399306.39	720704.18	
13454.00	92.52	184.40	11797.54	1691.85	-1642.98	644.39	1.37	399274.52	720701.69	
13485.00	93.71	184.84	11795.86	1722.38	-1673.84	641.90	4.09	399243.66	720699.20	
13517.00	95.74	185.82	11793.22	1753.76	-1705.59	638.94	7.04	399211.91	720696.24	
13548.00	95.89	186.32	11790.08	1784.04	-1736.26	635.68	1.68	399181.24	720692.98	
13579.00	94.27	185.53	11787.34	1814.37	-1766.97	632.49	5.81	399150.53	720689.79	
13611.00	94.14	185.11	11784.99	1845.78	-1798.74	629.53	1.37	399118.76	720686.83	
13643.00	94.55	185.55	11782.57	1877.18	-1830.51	626.57	1.88	399086.99	720683.87	
13674.00	90.28	184.79	11781.26	1907.67	-1861.35	623.78	13.99	399056.15	720681.08	
13706.00	88.39	184.79	11781.63	1939.21	-1893.24	621.10	5.91	399024.26	720678.40	
13737.00	87.97	185.08	11782.62	1969.74	-1924.11	618.44	1.65	398993.39	720675.74	
13769.00	89.30	186.15	11783.38	2001.20	-1955.94	615.31	5.33	398961.56	720672.61	
13800.00	89.30	186.36	11783.76	2031.61	-1986.76	611.93	0.68	398930.74	720669.23	
13831.00	91.68	187.05	11783.49	2061.98	-2017.54	608.31	7.99	398899.96	720665.61	
13863.00	93.15	187.13	11782.14	2093.25	-2049.27	604.37	4.60	398868.23	720661.67	
13894.00	93.15	187.25	11780.44	2123.52	-2079.98	600.49	0.39	398837.52	720657.79	
13926.00	92.31	185.22	11778.92	2154.88	-2111.75	597.02	6.86	398805.75	720654.32	
13957.00	92.59	185.01	11777.59	2185.39	-2142.60	594.26	1.13	398774.90	720651.56	
13988.00	93.01	185.05	11776.08	2215.89	-2173.44	591.55	1.36	398744.06	720648.85	
14082.00	90.07	181.43	11773.55	2308.88	-2267.23	586.24	4.96	398650.27	720643.54	
14176.00	89.30	181.19	11774.07	2402.33	-2361.21	584.09	0.86	398556.29	720641.39	
14270.00	88.95	181.10	11775.50	2495.80	-2455.18	582.21	0.38	398462.32	720639.51	
14364.00	89.58	181.31	11776.71	2589.27	-2549.15	580.23	0.71	398368.35	720637.53	
14458.00	91.19	181.53	11776.08	2682.69	-2643.11	577.91	1.73	398274.39	720635.21	
14552.00	93.01	181.93	11772.63	2776.00	-2737.00	575.07	1.98	398180.50	720632.37	
14645.00	90.56	182.14	11769.74	2868.27	-2829.89	571.77	2.64	398087.61	720629.07	
14740.00	90.70	181.09	11768.69	2962.66	-2924.85	569.09	1.11	397992.65	720626.39	
14833.00	89.58	179.67	11768.46	3055.26	-3017.84	568.48	1.94	397899.66	720625.78	
14927.00	88.74	179.77	11769.84	3148.95	-3111.83	568.93	0.90	397805.67	720626.23	
15021.00	88.46	177.73	11772.14	3242.73	-3205.77	570.98	2.19	397711.73	720628.28	
15115.00	92.24	179.44	11771.56	3336.53	-3299.72	573.31	4.41	397617.78	720630.61	
15208.00	92.24	179.88	11767.93	3429.17	-3392.65	573.86	0.47	397524.85	720631.16	
15302.00	87.83	177.67	11767.87	3522.95	-3486.60	575.87	5.25	397430.90	720633.17	
15396.00	88.81	178.36	11770.63	3616.79	-3580.50	579.12	1.27	397337.00	720636.42	
15490.00	89.44	178.61	11772.06	3710.61	-3674.46	581.60	0.72	397243.04	720638.90	
15584.00	86.29	177.60	11775.56	3804.41	-3768.33	584.71	3.52	397149.17	720642.01	
15678.00	83.26	176.14	11784.12	3897.96	-3861.78	589.82	3.58	397055.72	720647.12	
15723.00	82.85	174.95	11789.57	3942.63	-3906.32	593.29	2.78	397011.18	720650.59	

SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
HD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
15740.00	83.27	174.74	11791.62	3959.50	-3923.12	594.80	2.76	396994.38	720652.10	
15772.00	84.19	173.91	11795.11	3991.31	-3954.78	597.95	3.86	396962.72	720655.25	
15803.00	86.36	173.48	11797.67	4022.19	-3985.48	601.34	7.14	396932.02	720658.64	
15834.00	87.34	173.68	11799.37	4053.13	-4016.24	604.80	3.23	396901.26	720662.10	
15865.00	87.48	172.42	11800.77	4084.08	-4046.98	608.55	4.09	396870.52	720665.85	
15897.00	87.06	172.13	11802.30	4116.00	-4078.65	612.85	1.59	396838.85	720670.15	
15928.00	89.02	173.11	11803.36	4146.95	-4109.38	616.83	7.07	396808.12	720674.13	
15959.00	89.30	172.90	11803.81	4177.93	-4140.14	620.60	1.13	396777.36	720677.90	
15991.00	92.10	173.77	11803.42	4209.91	-4171.92	624.31	9.16	396745.58	720681.61	
16022.00	92.38	173.39	11802.21	4240.87	-4202.70	627.78	1.52	396714.80	720685.08	
16053.00	92.94	172.73	11800.77	4271.82	-4233.44	631.52	2.79	396684.06	720688.82	
16085.00	93.86	174.36	11798.87	4303.75	-4265.18	635.11	5.84	396652.32	720692.41	
16116.00	95.25	177.25	11796.41	4334.65	-4296.00	637.37	10.32	396621.50	720694.67	
16147.00	95.46	177.94	11793.52	4365.48	-4326.83	638.67	2.32	396590.67	720695.97	
16179.00	96.09	179.21	11790.30	4397.26	-4358.66	639.46	4.41	396558.84	720696.76	
16210.00	96.10	179.69	11787.01	4428.00	-4389.48	639.75	1.54	396528.02	720697.05	
16242.00	95.89	179.39	11783.66	4459.73	-4421.31	640.01	1.14	396496.19	720697.31	
16273.00	93.99	178.99	11780.99	4490.53	-4452.19	640.45	6.26	396465.31	720697.75	
16305.00	93.71	179.19	11778.84	4522.38	-4484.11	640.95	1.07	396433.39	720698.25	
16336.00	93.36	179.30	11776.93	4553.24	-4515.05	641.36	1.18	396402.45	720698.66	
16368.00	92.94	179.58	11775.18	4585.11	-4547.00	641.67	1.58	396370.50	720698.97	
16399.00	92.59	180.00	11773.68	4615.97	-4577.96	641.79	1.76	396339.54	720699.09	
16430.00	92.87	180.13	11772.20	4646.82	-4608.93	641.75	1.00	396308.57	720699.05	
16462.00	90.84	179.00	11771.17	4678.70	-4640.91	641.99	7.26	396276.59	720699.29	
16494.00	90.07	177.17	11770.91	4710.66	-4672.89	643.06	6.20	396244.61	720700.36	
16525.00	91.19	175.84	11770.57	4741.64	-4703.83	644.95	5.61	396213.67	720702.25	
16556.00	92.66	175.31	11769.53	4772.62	-4734.72	647.34	5.04	396182.78	720704.64	
16587.00	92.73	175.40	11768.07	4803.59	-4765.58	649.85	0.37	396151.92	720707.15	
16619.00	92.45	175.14	11766.63	4835.56	-4797.44	652.49	1.19	396120.06	720709.79	
16650.00	91.96	177.08	11765.43	4866.53	-4828.34	654.59	6.45	396089.16	720711.89	
16681.00	91.26	176.58	11764.56	4897.50	-4859.28	656.30	2.77	396058.22	720713.60	
16713.00	91.89	177.41	11763.68	4929.47	-4891.23	657.98	3.26	396026.27	720715.28	
16744.00	89.72	176.01	11763.25	4960.45	-4922.17	659.76	8.33	395995.33	720717.06	
16775.00	89.72	176.62	11763.40	4991.45	-4953.11	661.75	1.97	395964.39	720719.05	
16807.00	89.86	176.37	11763.52	5023.44	-4985.05	663.71	0.90	395932.45	720721.01	
16838.00	92.52	177.48	11762.87	5054.41	-5015.99	665.37	9.30	395901.51	720722.67	
16870.00	92.10	178.17	11761.58	5086.35	-5047.94	666.58	2.52	395869.56	720723.88	
16901.00	90.07	177.87	11761.00	5117.30	-5078.92	667.65	6.62	395838.58	720724.95	
16933.00	90.07	178.12	11760.96	5149.26	-5110.90	668.77	0.78	395806.60	720726.07	
16964.00	89.51	177.58	11761.07	5180.23	-5141.87	669.94	2.51	395775.63	720727.24	
16996.00	89.72	177.79	11761.29	5212.19	-5173.85	671.23	0.93	395743.65	720728.53	
17027.00	90.70	178.51	11761.17	5243.15	-5204.83	672.23	3.92	395712.67	720729.53	
17059.00	90.91	177.89	11760.72	5275.10	-5236.81	673.23	2.05	395680.69	720730.53	
17090.00	90.28	176.93	11760.40	5306.07	-5267.78	674.64	3.70	395649.72	720731.94	
17122.00	91.26	176.79	11759.97	5338.06	-5299.73	676.39	3.09	395617.77	720733.69	
17153.00	92.10	177.49	11759.06	5369.02	-5330.67	677.93	3.53	395586.83	720735.23	
17185.00	92.80	177.37	11757.69	5400.97	-5362.61	679.37	2.22	395554.89	720736.67	
17216.00	91.26	176.05	11756.60	5431.93	-5393.54	681.15	6.54	395523.96	720738.45	
17247.00	91.47	176.62	11755.86	5462.92	-5424.47	683.13	1.96	395493.03	720740.43	
17279.00	93.71	179.05	11754.41	5494.84	-5456.41	684.34	10.32	395461.09	720741.64	
17310.00	90.84	178.26	11753.18	5525.76	-5487.37	685.06	9.60	395430.13	720742.36	
17342.00	91.05	179.88	11752.65	5557.68	-5519.36	685.58	5.10	395398.14	720742.88	
17373.00	90.14	180.36	11752.33	5588.56	-5550.36	685.52	3.32	395367.14	720742.82	
17404.00	90.35	180.40	11752.20	5619.43	-5581.36	685.31	0.69	395336.14	720742.61	
17436.00	93.01	181.32	11751.26	5651.25	-5613.34	684.83	8.80	395304.16	720742.13	
17467.00	93.22	181.07	11749.58	5682.03	-5644.29	684.19	1.05	395273.21	720741.49	
17498.00	90.91	180.33	11748.46	5712.86	-5675.26	683.81	7.82	395242.24	720741.11	
17530.00	91.82	180.43	11747.70	5744.72	-5707.25	683.60	2.86	395210.25	720740.90	
17561.00	91.75	180.46	11746.73	5775.57	-5738.23	683.35	0.25	395179.27	720740.65	

5D Survey Report

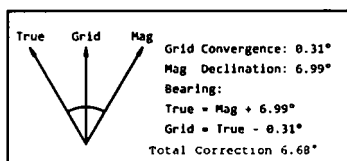
Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
17593.00	91.68	179.46	11745.77	5807.44	-5770.22	683.38	3.13	395147.28	720740.68	
17624.00	90.63	179.21	11745.15	5838.35	-5801.21	683.74	3.48	395116.29	720741.04	
17655.00	89.02	177.82	11745.24	5869.29	-5832.20	684.54	6.86	395085.30	720741.84	
17749.00	89.44	178.40	11746.51	5963.15	-5926.14	687.64	0.76	394991.36	720744.94	
17844.00	91.33	176.75	11745.87	6058.06	-6021.04	691.66	2.64	394896.46	720748.96	
17938.00	93.71	176.83	11741.74	6151.92	-6114.80	696.92	2.53	394802.70	720754.22	
18033.00	90.70	176.13	11738.08	6246.81	-6209.54	702.75	3.25	394707.96	720760.05	
18128.00	89.02	175.38	11738.31	6341.80	-6304.27	709.78	1.94	394613.23	720767.08	
18222.00	91.96	178.34	11737.51	6435.73	-6398.11	714.93	4.44	394519.39	720772.23	
18316.00	89.79	176.86	11736.07	6529.63	-6492.01	718.86	2.79	394425.49	720776.16	
18410.00	90.77	177.24	11735.61	6623.57	-6585.88	723.70	1.12	394331.62	720781.00	
18504.00	88.11	176.43	11736.53	6717.51	-6679.72	728.89	2.96	394237.78	720786.19	
18599.00	89.16	177.38	11738.80	6812.44	-6774.55	734.01	1.49	394142.95	720791.31	
18693.00	89.93	178.03	11739.54	6906.34	-6868.47	737.78	1.07	394049.03	720795.08	
18788.00	93.15	180.35	11736.99	7001.05	-6963.41	739.12	4.18	393954.09	720796.42	
18882.00	94.70	181.72	11730.55	7094.32	-7057.17	737.43	2.20	393860.33	720794.73	
18977.00	95.53	182.43	11722.09	7188.25	-7151.73	734.00	1.15	393765.77	720791.30	
19071.00	94.13	182.90	11714.17	7281.10	-7245.29	729.65	1.57	393672.21	720786.95	
19166.00	96.24	185.39	11705.58	7374.53	-7339.64	722.81	3.43	393577.86	720780.11	
19194.00	95.53	187.04	11702.71	7401.86	-7367.33	719.80	6.39	393550.17	720777.10	Last WFT MWD Svy
19265.00	95.53	187.04	11695.87	7471.00	-7437.47	711.14	0.00	393480.03	720768.44	Proj to TD



KB: 3358.00
GL: 3331.00

Mewbourne Oil Company
Armstrong 26-35 W0LM Fed Com #1H
Eddy Co, NM
Plan P1:V1

Plan vs Actual



Plan Data for Armstrong 26-35 W0LM Fed Com #1H

Field: Mewbourne Oil Company (Mad 83 NMEZ)
Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Armstrong 26/35 Pad
Unit: USFet TVD Reference:
Company Name: Mewbourne Oil Company
Position: Northing: 400917.50USFt Latitude: 32.100887°
Easting: 720057.30USFt Longitude: -103.756167°
North Reference: Grid Grid Convergence: 0.31°
Elevation Above VRD: 3331.00USFt
Comment: Eddy Co., New Mexico

Slot: Armstrong 26-35 W0LM Fed Com #1H
Position:
Offset is from Site centre
+N/-S: 0.00USFt Northing: 400917.50USFt Latitude: 32.100887°
+E/-W: 0.00USFt Easting: 720057.30USFt Longitude: -103.756167°
Elevation Above VRD: 3331.00USFt

Well: Armstrong 26-35 W0LM Fed Com #1H
Type: Main-Well
File Number: 13322133
Plan Folder: P1 Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USFt Azimuth: 175.12°
+E/-W: 0.00USFt
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2018 47767(nT) 6.99° 59.85° 2018-08-05
Comment: Patterson 231

Plan Data for Armstrong 26-35 W0LM Fed Com #1H

Plan Point Information:

MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
0.00	0.00	0.00	0.00	0.00	0.00	400917.50	720057.30	0.00	0.00	
4325.00	0.00	0.00	4325.00	0.00	0.00	400917.50	720057.30	0.00	0.00	Nudge
4824.79	5.00	60.20	4824.16	10.83	18.90	400928.33	720076.20	-9.18	1.00	Hold
11222.76	5.00	60.20	11197.09	287.83	502.58	401205.33	720559.00	-244.04	0.00	KOP
12149.57	90.56	175.40	11790.09	-284.62	506.16	400632.88	720653.46	334.31	10.00	Landing Pt/Hold
12543.24	90.56	175.40	11786.26	-677.00	627.76	400240.50	720685.06	727.95	0.00	Turn
12773.41	90.56	180.00	11784.02	-906.91	637.00	400010.59	720694.30	957.81	2.00	Hold
19323.41	90.56	180.00	11720.00	-7456.60	637.00	393460.90	720694.30	7483.76	0.00	W0LM PBHL

Plan Data for Armstrong 26-35 W0LM Fed Com #1H

Target Set Information:
Name: A26.35 W0LM FC1H

Position offsets from Slot centre

Name	TVD	Elevation	+N/-S	+E/-W	Northing	Easting
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
KOP	11197.00	-7839.80	287.83	502.58	401205.33	720559.00
PBHL	11720.00	-8362.00	-7456.60	637.00	393460.90	720694.30

Plan Data for Armstrong 26-35 W0LM Fed Com #1H

Casing Point Information:
Position offsets from Slot centre

Name	MD	TVD	+N/-S	+E/-W	Northing	Easting
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
13 3/8 in	996.00	996.00	0.00	0.00	400917.50	720057.30
9 5/8 in	4248.00	4248.00	0.00	0.00	400917.50	720057.30
7 in	11984.00	11768.00	-121.80	581.17	400795.70	720638.47

Drilling By: Ty Morfin Date: 21 July 2018
Office Name: Drilling Services - Houston
Address: 12201 Cotton Road
Houston, TX 77060
Phone: Office: +1.832.945.0003 | Cell: +1.713.803.0256



Weatherford

