

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 08 2017



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Weatherford

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

Mewbourne Oil Co.
701 S Cecil St.
Hobbs, NM 88240

Date: December 9, 2016

Attention: Shane Heinze

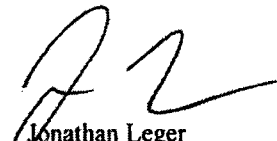
30-015-42852

Re: Mewbourne Oil Co.
Well: West Loving 12 W2EH State 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:

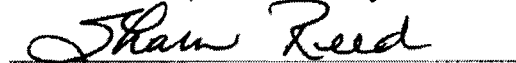
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Tyler Brenton	1H	9153 MD	11/17/2016	Measurement
MWD Supervisor		14333 MD	12/05/2016	While Drilling

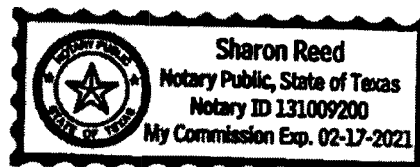
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jonathan Leger
MWD Ops Coordinator

On this, the 7 day of June, 2017, before me a notary public, the undersigned officer, personally appeared Jonathan Leger, 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



5D Survey Report



MEWBOURNE
OIL COMPANY

5D Survey Report

Mewbourn Oil Company

Field Name: *Mewbourne Eddy Co, NM (Nad 27 NMEZ)*
Site Name: *West Loving 12 W2EH State Com 1H*
Well Name: *West Loving 12 W2EH State Com 1H*
Survey: *Definitive survey*

9 December 2016



Weatherford

MD Survey Report


Weatherford

**MEWBOURNE
OIL COMPANY**
West Loving 12 W2EH State Com 1H

Field Name: Mewbourne Edny Co. NM (Judd 11 NINEZ)	Map Units: US ft	Company Name: Mewbourn Oil Company	
	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD27 / New Mexico East		
Comment:			
Site: West Loving 12 W2EH State Com 1H	Units: US ft	North Reference: Grid	Convergence Angle: 0.10
	Elevation above MSL: 3110.00 US ft		
	Comment:		
Slot: West Loving 12 W2EH State Com 1H	Slot TVD Reference: Ground Elevation		
	Elevation above MSL: 3110.00 US ft		
	Comment:		
Well: West Loving 12 W2EH State Com 1H	Type: Main well	UWI:	
	File Number:	Comment:	
	Closure Distance: 4805.11 US ft	Closure Azimuth: 89.39°	
	Vertical Section: Position of Origin (Relative to Slot centre)		
	+N/-S: 0.00 US ft	+E/-W: 0.00 US ft	Az: 89.62°

Drill floor:	Survey Name: Definitive Survey
Rig Height (Drill Floor): 27.00 US ft	Elevation above MSL: 3137.00 US ft
Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey				
Date: 28/Sep/2016	Survey Tool: See Survey	Comment:	Company:	
Tool Ranges below.				
Magnetic Model:				
Model Name: bggm2016	Date: 07/Nov/2016	Field Strength: 48051.4 nT	Declination: 7.34°	Dip: 59.98°
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 GW	0.00	8740.00	Phoenix Gyro Svcs
MWD	8740.00	9481.00	WFT MWD Svcs

SD Survey Report

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	9481.00	10048.00	WFT MWD Svy 3
MWD	10048.00	10172.00	WFT MWD Svy 4
MWD	10172.00	10546.00	WFT MWD Svy 5
MWD	10546.00	12978.00	WFT MWD Svy 6
MWD	12978.00	14410.00	WFT MWD Svy 7

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (USFt)	WELL LOG	WELL LOG	WELL LOG	WELL LOG	WELL LOG	WELL LOG	WELL LOG	WELL LOG	WELL LOG	WELL LOG
8740.00	0.82	122.08	8737.11	-49.43	-33.94	-49.21	448523.86	556134.19	0.78	Last Gyro Svy
9153.00	1.26	72.83	9150.05	-42.59	-34.17	-42.36	448523.63	556141.04	0.23	First WFT Svy
9201.00	1.05	66.77	9198.04	-41.68	-33.84	-41.46	448523.96	556141.94	0.51	
9232.00	4.07	82.20	9229.00	-40.33	-33.57	-40.10	448524.23	556143.30	9.91	
9263.00	9.50	84.03	9259.77	-36.69	-33.16	-36.47	448524.64	556146.93	17.53	
9294.00	14.30	84.52	9290.10	-30.32	-32.53	-30.11	448525.27	556153.29	15.49	
9325.00	17.43	81.69	9319.92	-21.91	-31.49	-21.70	448526.31	556161.70	10.40	
9357.00	19.43	75.99	9350.28	-11.99	-29.51	-11.79	448528.29	556171.61	8.41	
9388.00	21.04	71.87	9379.36	-1.68	-26.53	-1.50	448531.27	556181.90	6.93	
9419.00	22.75	71.10	9408.13	9.31	-22.85	9.46	448534.95	556192.86	5.59	
9450.00	24.67	70.71	9436.51	21.11	-18.78	21.24	448539.02	556204.64	6.21	
9481.00	26.94	70.68	9464.41	33.88	-14.31	33.97	448543.49	556217.37	7.32	
9512.00	29.53	72.04	9491.72	47.80	-9.63	47.87	448548.17	556231.27	8.61	
9543.00	30.84	75.80	9518.52	62.81	-5.33	62.84	448552.47	556246.24	7.42	
9575.00	32.33	78.10	9545.78	79.16	-1.55	79.17	448556.25	556262.57	5.99	
9606.00	34.56	80.32	9571.65	95.96	1.64	95.95	448559.44	556279.35	8.20	
9637.00	36.87	82.00	9596.82	113.86	4.41	113.83	448562.21	556297.23	8.09	
9668.00	39.48	82.73	9621.18	132.86	6.95	132.82	448564.75	556316.22	8.54	
9699.00	42.25	82.75	9644.63	153.00	9.51	152.94	448567.31	556336.34	8.94	
9731.00	45.08	83.08	9667.77	174.94	12.24	174.86	448570.04	556358.26	8.87	
9762.00	47.61	83.88	9689.17	197.24	14.78	197.14	448572.58	556380.54	8.37	
9793.00	51.07	84.35	9709.37	220.64	17.19	220.53	448574.99	556403.93	11.22	
9824.00	54.71	85.01	9728.07	245.27	19.48	245.14	448577.28	556428.54	11.86	
9855.00	58.57	85.41	9745.11	271.08	21.64	270.94	448579.44	556454.34	12.50	
9887.00	62.64	86.48	9760.81	298.89	23.60	298.74	448581.40	556482.14	13.05	
9918.00	66.07	87.20	9774.23	326.80	25.14	326.64	448582.94	556510.04	11.26	
9949.00	67.68	88.28	9786.40	355.29	26.26	355.13	448584.06	556538.53	6.10	
9980.00	67.73	89.89	9798.17	383.97	26.72	383.81	448584.52	556567.21	4.81	
10011.00	71.27	90.45	9809.02	413.01	26.63	412.84	448584.43	556596.24	11.54	
10048.00	75.96	91.06	9819.45	448.49	26.16	448.32	448583.96	556631.72	12.77	
10139.00	80.51	87.64	9838.01	537.53	27.20	537.37	448585.00	556720.77	6.21	
10172.00	81.15	86.45	9843.27	570.08	28.88	569.90	448586.68	556753.30	4.05	
10203.00	82.99	84.74	9847.55	600.70	31.23	600.51	448589.03	556783.91	8.07	
10234.00	86.29	83.05	9850.44	631.41	34.52	631.19	448592.32	556814.59	11.95	
10265.00	88.74	81.63	9851.79	662.13	38.65	661.89	448596.45	556845.29	9.13	
10359.00	93.15	88.47	9850.23	755.74	46.75	755.44	448604.55	556938.84	8.66	
10453.00	90.14	91.59	9847.53	849.67	46.70	849.38	448604.50	557032.78	4.61	
10546.00	87.48	90.49	9849.47	942.62	45.01	942.34	448602.81	557125.74	3.09	
10640.00	88.53	89.17	9852.74	1036.55	45.29	1036.28	448603.09	557219.68	1.79	
10733.00	88.39	89.73	9855.24	1129.52	46.18	1129.24	448603.98	557312.64	0.62	
10827.00	89.79	88.48	9856.73	1223.50	47.65	1223.21	448605.45	557406.61	2.00	
10920.00	89.58	88.01	9857.24	1316.47	50.50	1316.17	448608.30	557499.57	0.55	
11014.00	90.91	89.35	9856.84	1410.45	52.67	1410.14	448610.47	557593.54	2.01	
11107.00	90.28	89.14	9855.87	1503.45	53.89	1503.12	448611.69	557686.52	0.71	
11201.00	91.12	90.17	9854.73	1597.44	54.46	1597.11	448612.26	557780.51	1.41	
11295.00	90.07	93.04	9853.75	1691.36	51.83	1691.06	448609.63	557874.46	3.25	
11389.00	90.21	94.11	9853.52	1785.14	45.96	1784.87	448603.76	557968.27	1.15	

SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
Station	True	App	True	App	True	True	True	True	True	Remarks
11482.00	87.55	90.04	9855.34	1878.01	42.60	1877.77	448600.40	558061.17	5.23	
11576.00	88.53	90.51	9858.55	1971.95	42.15	1971.71	448599.95	558155.11	1.16	
11669.00	88.74	90.32	9860.77	2064.91	41.47	2064.68	448599.27	558248.08	0.30	
11762.00	91.33	91.17	9860.71	2157.88	40.26	2157.66	448598.06	558341.06	2.93	
11856.00	90.56	91.67	9859.16	2251.82	37.93	2251.62	448595.73	558435.02	0.98	
11949.00	90.35	89.85	9858.42	2344.80	36.70	2344.61	448594.50	558528.01	1.97	
12043.00	89.23	89.45	9858.77	2438.80	37.27	2438.60	448595.07	558622.00	1.27	
12136.00	90.63	90.37	9858.88	2531.79	37.42	2531.60	448595.22	558715.00	1.80	
12230.00	90.00	90.13	9858.36	2625.78	37.01	2625.60	448594.81	558809.00	0.72	
12323.00	89.37	89.74	9858.88	2718.78	37.12	2718.59	448594.92	558901.99	0.80	
12416.00	88.53	90.37	9860.58	2811.76	37.03	2811.58	448594.83	558994.98	1.13	
12510.00	89.51	89.81	9862.19	2905.74	36.88	2905.56	448594.68	559088.96	1.20	
12603.00	89.09	89.88	9863.32	2998.73	37.13	2998.55	448594.93	559181.95	0.46	
12697.00	87.76	86.82	9865.91	3092.66	39.84	3092.47	448597.64	559275.87	3.55	
12790.00	88.18	88.24	9869.20	3185.54	43.84	3185.32	448601.64	559368.72	1.59	
12884.00	89.65	89.57	9870.98	3279.51	45.64	3279.28	448603.44	559462.68	2.11	
12978.00	87.76	89.33	9873.11	3373.48	46.54	3373.25	448604.34	559556.65	2.03	
13072.00	91.47	90.07	9873.91	3467.46	47.16	3467.22	448604.96	559650.62	3.18	
13166.00	90.63	89.39	9872.20	3561.44	47.60	3561.20	448605.40	559744.57	1.16	
13260.00	90.00	89.13	9871.69	3655.44	48.81	3655.19	448606.61	559838.52	0.73	
13354.00	90.07	88.84	9871.63	3749.43	50.48	3749.18	448608.28	559932.47	0.32	
13448.00	89.93	90.55	9871.63	3843.43	50.98	3843.17	448608.78	560026.42	1.83	
13542.00	89.93	90.58	9871.74	3937.41	50.05	3937.17	448607.85	560120.37	0.03	
13636.00	89.79	90.84	9871.97	4031.40	48.90	4031.16	448606.70	560214.32	0.32	
13730.00	88.95	90.96	9873.00	4125.37	47.42	4125.14	448605.22	560308.27	0.90	
13824.00	88.60	90.06	9874.99	4219.33	46.60	4219.12	448604.40	560402.22	1.04	
13918.00	89.02	91.48	9876.94	4313.29	45.33	4313.09	448603.13	560496.17	1.58	
14012.00	88.11	91.25	9879.27	4407.22	43.12	4407.03	448600.92	560590.12	1.01	
14106.00	88.88	88.88	9881.72	4501.18	43.01	4500.99	448600.81	560684.07	2.68	
14200.00	89.72	89.46	9882.86	4595.16	44.37	4594.97	448602.17	560778.02	1.09	
14294.00	90.84	87.44	9882.31	4689.13	47.43	4688.92	448605.23	560871.97	2.04	
14388.00	90.84	87.44	9881.18	4783.07	50.87	4782.84	448608.67	560965.92	0.00	Last Svy Proj to Bit