



PHOENIX

TECHNOLOGY SERVICES USA INC.

3610 Elkins Road, Midland, Texas 79705 T. 432.684.0057 F. 432.686.7964 www.phxtech.com

Celebrating 20 Years of Focused Solutions

30-025-43885

September 11, 2017

Oil Conservation Division
State of New Mexico
1625 N. French Drive
Hobbs, New Mexico 88240

HOBBS OCD
SEP 25 2017
RECEIVED

Dear District 1 - Hobbs

Attention: Regulatory Department

Re: Mewbourne Oil
Toro 36 B3CN State #1H
Lea County, New Mexico
API #30-025-43885
Job No. 61725

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Noe Garza	1H	0	5,060	9/5/17	9/5/17	Gyro

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



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TECHNOLOGY SERVICES

Company: Mewbourne

Job #: 61725

Well Name: Toro 36 B3CN State # 1H

County/State: Lea Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-43885

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2017-09-05	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2017-09-05	5060	6.19	59.97

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.48

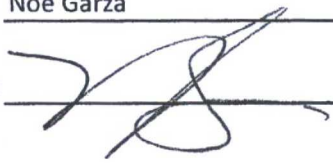
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 09-05-17

Print Name: Noe Garza

Signature: 



Company: Mewbourne
 Well: Toro 36 B3CN State # 1H
 Location: Lea Co., New Mexico
 Rig: Patterson 220

Job Number: 61725
 Grid Corr.: -0.48
 Lat: 32.27
 Long: -103.43

Date: 09-05-17
 Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 26
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Enter Tie-In Survey on Line 10					FIELD COPY, NON-DEFINITIVE								
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.41	188.57	100	100.00	-0.35	0.35 S	0.05 W	0.36	188.57	0.41	0.41	188.5
	200.00	0.59	165.15	100	200.00	-1.21	1.21 S	0.03 E	1.21	178.80	0.27	0.18	-23.42
	300.00	0.54	179.20	100	299.99	-2.17	2.17 S	0.16 E	2.18	175.69	0.15	-0.05	14.05
	400.00	0.69	194.77	100	399.98	-3.23	3.23 S	0.02 E	3.23	179.70	0.22	0.15	15.57
	500.00	0.86	191.09	100	499.98	-4.55	4.55 S	0.28 W	4.55	183.54	0.18	0.17	-3.68
	600.00	1.10	191.76	100	599.96	-6.22	6.22 S	0.62 W	6.25	185.70	0.24	0.24	0.67
	700.00	1.18	193.73	100	699.94	-8.16	8.16 S	1.06 W	8.23	187.41	0.09	0.08	1.97
	800.00	1.22	191.97	100	799.92	-10.20	10.20 S	1.53 W	10.32	188.51	0.05	0.04	-1.76
	900.00	1.21	185.59	100	899.90	-12.30	12.30 S	1.85 W	12.43	188.56	0.14	-0.01	-6.38
	1000.00	0.77	232.14	100	999.88	-13.76	13.76 S	2.48 W	13.98	190.23	0.88	-0.44	46.55
	1100.00	1.49	336.40	100	1099.87	-12.98	12.98 S	3.53 W	13.45	195.23	1.84	0.72	104.26
	1200.00	1.64	344.74	100	1199.83	-10.41	10.41 S	4.43 W	11.31	203.06	0.27	0.15	8.34
	1300.00	1.77	349.76	100	1299.79	-7.51	7.51 S	5.08 W	9.07	214.10	0.20	0.13	5.02
	1400.00	1.89	353.75	100	1399.74	-4.35	4.35 S	5.54 W	7.04	231.85	0.17	0.12	3.99
	1500.00	1.89	352.30	100	1499.68	-1.08	1.08 S	5.94 W	6.03	259.73	0.05	0.00	-1.45
	1600.00	2.18	354.32	100	1599.62	2.45	2.45 N	6.35 W	6.80	291.12	0.30	0.29	2.02
	1700.00	2.60	355.22	100	1699.53	6.60	6.60 N	6.72 W	9.42	314.49	0.42	0.42	0.90
	1800.00	2.83	1.83	100	1799.42	11.33	11.33 N	6.83 W	13.23	328.91	0.39	0.23	-353.39
	1900.00	2.95	2.30	100	1899.29	16.37	16.37 N	6.65 W	17.67	337.89	0.12	0.12	0.47
	2000.00	3.29	4.95	100	1999.14	21.80	21.80 N	6.30 W	22.69	343.88	0.37	0.34	2.65
	2100.00	3.46	4.98	100	2098.97	27.66	27.66 N	5.79 W	28.26	348.18	0.17	0.17	0.03
	2200.00	4.16	9.62	100	2198.75	34.25	34.25 N	4.92 W	34.60	351.82	0.76	0.70	4.64
	2300.00	4.66	13.06	100	2298.45	41.78	41.78 N	3.40 W	41.92	355.35	0.57	0.50	3.44
	2400.00	4.80	14.32	100	2398.11	49.79	49.79 N	1.45 W	49.81	358.34	0.17	0.14	1.26
	2500.00	4.85	14.42	100	2497.76	57.94	57.94 N	0.64 E	57.94	0.63	0.05	0.05	0.10
	2600.00	4.29	17.49	100	2597.44	65.60	65.60 N	2.82 E	65.66	2.46	0.61	-0.56	3.07
	2700.00	4.17	20.30	100	2697.17	72.58	72.58 N	5.20 E	72.76	4.10	0.24	-0.12	2.81



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							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2800.00	4.30	26.95	100	2796.90	79.33	79.33 N	8.16 E	79.75	5.88	0.51	0.13	6.65
	2900.00	4.81	34.84	100	2896.58	86.11	86.11 N	12.26 E	86.98	8.10	0.81	0.51	7.89
	3000.00	5.62	40.53	100	2996.17	93.28	93.28 N	17.84 E	94.97	10.83	0.96	0.81	5.69
	3100.00	6.32	44.71	100	3095.62	100.91	100.91 N	24.89 E	103.93	13.86	0.82	0.70	4.18
	3200.00	5.84	48.38	100	3195.06	108.20	108.20 N	32.57 E	112.99	16.75	0.62	-0.48	3.67
	3300.00	4.86	55.69	100	3294.63	113.97	113.97 N	39.87 E	120.74	19.28	1.19	-0.98	7.31
	3400.00	4.58	65.69	100	3394.29	118.00	118.00 N	47.01 E	127.02	21.72	0.87	-0.28	10.00
	3500.00	4.31	79.53	100	3493.99	120.33	120.33 N	54.34 E	132.03	24.30	1.10	-0.27	13.84
	3600.00	4.71	85.20	100	3593.68	121.35	121.35 N	62.13 E	136.33	27.11	0.60	0.40	5.67
	3700.00	5.29	93.97	100	3693.30	121.38	121.38 N	70.82 E	140.52	30.26	0.96	0.58	8.77
	3800.00	5.76	98.42	100	3792.84	120.32	120.32 N	80.38 E	144.70	33.74	0.64	0.47	4.45
	3900.00	5.23	104.96	100	3892.38	118.41	118.41 N	89.75 E	148.58	37.16	0.82	-0.53	6.54
	4000.00	5.32	100.42	100	3991.95	116.40	116.40 N	98.71 E	152.62	40.30	0.43	0.09	-4.54
	4100.00	6.87	103.45	100	4091.39	114.17	114.17 N	109.09 E	157.90	43.70	1.58	1.55	3.03
	4200.00	8.56	82.83	100	4190.50	113.70	113.70 N	122.29 E	166.98	47.08	3.22	1.69	-20.62
	4300.00	12.31	65.50	100	4288.85	119.06	119.06 N	139.38 E	183.31	49.50	4.85	3.75	-17.33
	4400.00	13.73	60.70	100	4386.28	129.29	129.29 N	159.44 E	205.27	50.96	1.78	1.42	-4.80
	4500.00	14.07	57.64	100	4483.35	141.60	141.60 N	180.05 E	229.06	51.82	0.81	0.34	-3.06
	4600.00	12.96	57.17	100	4580.58	154.19	154.19 N	199.74 E	252.33	52.33	1.12	-1.11	-0.47
	4700.00	12.22	57.02	100	4678.18	166.03	166.03 N	218.04 E	274.06	52.71	0.74	-0.74	-0.15
	4800.00	10.58	58.75	100	4776.20	176.55	176.55 N	234.77 E	293.75	53.06	1.68	-1.64	1.73
	4900.00	8.94	59.19	100	4874.75	185.29	185.29 N	249.29 E	310.61	53.38	1.64	-1.64	0.44
	5000.00	7.09	59.32	100	4973.77	192.42	192.42 N	261.28 E	324.49	53.63	1.85	-1.85	0.13
	5060.00	6.19	59.97	60	5033.36	195.93	195.93 N	267.26 E	331.39	53.75	1.51	-1.50	1.08