30-025-43136

PHOENIX
TECHNOLOGY SERVICES USA INC.
Celebrating 20 Years of Focused Solutions
3610 Elkins Road, Midland, Texas 79705 T. 432.684.0057 F. 432.686.7964 www.phxtech.com

August 17, 2016

HOBBS OCD
AUG 29 2016
RECEIVED

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

Dear District 1 - Hobbs

Attention: Regulatory Department

Re: Mewbourne Oil
Red Hills West Unit #014H
Lea County, New Mexico
API #30-025-43136
Job No. 60266

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	14H	0	11,215	08/09/16	08/09/16	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,

Claudia Carreon
Operations Administrator

SURVEY CERTIFICATION FORM

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

PHOENIX TECHNOLOGY SERVICES

Company: Mewbourne

Job #: 60266

Well Name: Red Hills West Unit # 014H

County/State: Lea., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-43136

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 (°)
2016-08-09	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2016-08-09	11215	1.74	152.02

Projected TD Survey

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

Grid Correction
-0.34

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Jaime Stephenson

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

Date: 08-09-16

Print Name: Noe Garza

Signature:

PHOENIX TECHNOLOGY SERVICES

Company: Mewbourne
Well: Red Hills West Unit # 014H
Location: Lea Co., New Mexico
Rig: Patterson 250

Job Number: 60266
Grid Corr.: -0.34
Lat: 32.05
Long: -103.69

Date: 08-09-16
Calculation Method: Minimum Curvature
Proposed Azimuth:
RKB - MSL in feet: 26.5 Feet
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Enter Tie-In Survey on Line 10						**FIELD COPY, NON-DEFINITIVE**							
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.08	95.29	100	100.00	-0.01	0.01 S	0.07 E	0.07	95.29	0.08	0.08	95.29
	200.00	0.22	45.48	100	200.00	0.12	0.12 N	0.28 E	0.30	66.19	0.18	0.14	-49.81
	300.00	0.08	190.31	100	300.00	0.19	0.19 N	0.40 E	0.44	64.88	0.29	-0.14	144.83
	400.00	0.12	66.89	100	400.00	0.16	0.16 N	0.48 E	0.51	71.70	0.18	0.04	-123.42
	500.00	0.28	201.83	100	500.00	-0.03	0.03 S	0.49 E	0.49	93.00	0.37	0.16	134.94
	600.00	0.24	133.70	100	600.00	-0.40	0.40 S	0.55 E	0.68	125.83	0.29	-0.04	-68.13
	700.00	1.25	96.10	100	699.99	-0.66	0.66 S	1.79 E	1.90	110.22	1.07	1.01	-37.60
	800.00	1.37	87.08	100	799.96	-0.71	0.71 S	4.06 E	4.13	99.95	0.24	0.12	-9.02
	900.00	1.33	24.18	100	899.94	0.41	0.41 N	5.73 E	5.75	85.94	1.41	-0.04	-62.90
	1000.00	1.86	10.19	100	999.90	3.06	3.06 N	6.50 E	7.18	64.76	0.65	0.53	-13.99
	1100.00	2.62	21.58	100	1099.82	6.79	6.79 N	7.62 E	10.21	48.33	0.88	0.76	11.39
	1200.00	2.43	17.48	100	1199.73	10.93	10.93 N	9.10 E	14.23	39.78	0.26	-0.19	-4.10
	1300.00	0.70	59.54	100	1299.69	13.26	13.26 N	10.27 E	16.77	37.73	1.97	-1.73	42.06
	1400.00	0.24	96.75	100	1399.68	13.55	13.55 N	11.00 E	17.45	39.07	0.53	-0.46	37.21
	1500.00	0.47	15.21	100	1499.68	13.92	13.92 N	11.32 E	17.94	39.10	0.50	0.23	-81.54
	1600.00	0.60	142.18	100	1599.68	13.90	13.90 N	11.74 E	18.20	40.19	0.96	0.13	126.97
	1700.00	0.57	160.05	100	1699.68	13.02	13.02 N	12.23 E	17.87	43.21	0.18	-0.03	17.87
	1800.00	0.16	103.28	100	1799.67	12.52	12.52 N	12.54 E	17.72	45.04	0.50	-0.41	-56.77
	1900.00	0.32	153.92	100	1899.67	12.24	12.24 N	12.80 E	17.71	46.28	0.25	0.16	50.64
	2000.00	0.54	140.84	100	1999.67	11.62	11.62 N	13.22 E	17.60	48.68	0.24	0.22	-13.08
	2100.00	0.53	225.88	100	2099.67	10.94	10.94 N	13.18 E	17.13	50.33	0.72	-0.01	85.04
	2200.00	0.82	239.87	100	2199.66	10.25	10.25 N	12.23 E	15.96	50.03	0.33	0.29	13.99
	2300.00	1.25	241.05	100	2299.64	9.37	9.37 N	10.66 E	14.19	48.69	0.43	0.43	1.18
	2400.00	1.54	242.81	100	2399.61	8.23	8.23 N	8.51 E	11.84	45.98	0.29	0.29	1.76
	2500.00	1.91	250.45	100	2499.57	7.05	7.05 N	5.75 E	9.10	39.16	0.43	0.37	7.64
	2600.00	1.68	275.07	100	2599.52	6.63	6.63 N	2.71 E	7.16	22.28	0.80	-0.23	24.62
	2700.00	0.73	329.88	100	2699.50	7.31	7.31 N	0.93 E	7.37	7.29	1.39	-0.95	54.81

PHOENIX
TECHNOLOGY SERVICES

Company:	Mewbourne	Job Number:	60266	Calculation Method:	Minimum Curvature
Well:	Red Hills West Unit # 014H	Grid Corr.:	-0.34	Proposed Azimuth:	
Location:	Lea Co., New Mexico	Lat:	32.05	RKB - MSL in feet:	26.5 Feet
Rig:	Patterson 250	Long:	-103.69	Tie Into:	Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	2800.00	0.76	9.72	100	2799.49	8.51	8.51 N	0.73 E	8.54	4.88	0.51	0.03	-320.16
	2900.00	0.95	23.40	100	2899.48	9.93	9.93 N	1.17 E	9.99	6.71	0.28	0.19	13.68
	3000.00	0.86	69.34	100	2999.47	10.95	10.95 N	2.20 E	11.17	11.36	0.71	-0.09	45.94
	3100.00	0.92	87.95	100	3099.46	11.24	11.24 N	3.70 E	11.84	18.23	0.29	0.06	18.61
	3200.00	1.22	69.54	100	3199.44	11.65	11.65 N	5.50 E	12.88	25.30	0.45	0.30	-18.41
	3300.00	2.10	86.15	100	3299.40	12.14	12.14 N	8.33 E	14.72	34.45	0.99	0.88	16.61
	3400.00	2.22	92.44	100	3399.33	12.18	12.18 N	12.09 E	17.16	44.79	0.27	0.12	6.29
	3500.00	1.55	91.05	100	3499.27	12.07	12.07 N	15.38 E	19.55	51.87	0.67	-0.67	-1.39
	3600.00	1.96	68.70	100	3599.23	12.67	12.67 N	18.33 E	22.28	55.34	0.79	0.41	-22.35
	3700.00	1.77	65.85	100	3699.17	13.92	13.92 N	21.33 E	25.47	56.86	0.21	-0.19	-2.85
	3800.00	2.58	70.32	100	3799.10	15.31	15.31 N	24.86 E	29.19	58.36	0.83	0.81	4.47
	3900.00	2.44	89.45	100	3899.01	16.09	16.09 N	29.10 E	33.26	61.06	0.85	-0.14	19.13
	4000.00	1.71	103.32	100	3998.94	15.77	15.77 N	32.68 E	36.29	64.25	0.88	-0.73	13.87
	4100.00	2.09	108.55	100	4098.89	14.84	14.84 N	35.87 E	38.82	67.52	0.42	0.38	5.23
	4200.00	3.46	114.72	100	4198.77	13.00	13.00 N	40.34 E	42.38	72.13	1.40	1.37	6.17
	4300.00	3.42	121.30	100	4298.59	10.19	10.19 N	45.63 E	46.75	77.41	0.40	-0.04	6.58
	4400.00	2.59	128.18	100	4398.45	7.24	7.24 N	49.95 E	50.47	81.75	0.90	-0.83	6.88
	4500.00	1.52	124.19	100	4498.38	5.10	5.10 N	52.82 E	53.07	84.48	1.08	-1.07	-3.99
	4600.00	1.28	126.34	100	4598.35	3.70	3.70 N	54.82 E	54.94	86.14	0.25	-0.24	2.15
	4700.00	1.11	115.84	100	4698.33	2.61	2.61 N	56.59 E	56.65	87.36	0.28	-0.17	-10.50
	4800.00	0.90	94.18	100	4798.32	2.13	2.13 N	58.25 E	58.29	87.90	0.43	-0.21	-21.66
	4900.00	0.93	114.85	100	4898.30	1.73	1.73 N	59.77 E	59.79	88.34	0.33	0.03	20.67
	5000.00	1.58	94.45	100	4998.28	1.29	1.29 N	61.88 E	61.89	88.81	0.78	0.65	-20.40
	5100.00	0.98	114.20	100	5098.25	0.83	0.83 N	64.03 E	64.04	89.26	0.74	-0.60	19.75
	5200.00	0.40	178.08	100	5198.25	0.13	0.13 N	64.82 E	64.82	89.89	0.88	-0.58	63.88
	5300.00	0.90	147.72	100	5298.24	-0.88	0.88 S	65.25 E	65.26	90.78	0.59	0.50	-30.36
	5400.00	0.49	175.97	100	5398.23	-1.97	1.97 S	65.70 E	65.73	91.72	0.52	-0.41	28.25
	5500.00	0.96	232.25	100	5498.23	-2.91	2.91 S	65.07 E	65.14	92.56	0.80	0.47	56.28
	5600.00	0.45	238.47	100	5598.22	-3.63	3.63 S	64.07 E	64.18	93.24	0.51	-0.51	6.22
	5700.00	0.49	252.92	100	5698.22	-3.96	3.96 S	63.33 E	63.45	93.58	0.12	0.04	14.45

PHOENIX TECHNOLOGY SERVICES

Company:	Mewbourne	Job Number:	60266	Calculation Method:	Minimum Curvature
Well:	Red Hills West Unit # 014H	Grid Corr.:	-0.34	Proposed Azimuth:	
Location:	Lea Co., New Mexico	Lat:	32.05	RKB - MSL in feet:	26.5 Feet
Rig:	Patterson 250	Long:	-103.69	Tie Into:	Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	5800.00	0.35	266.88	100	5798.21	-4.11	4.11 S	62.62 E	62.75	93.75	0.17	-0.14	13.96
	5900.00	0.32	291.23	100	5898.21	-4.02	4.02 S	62.05 E	62.18	93.71	0.14	-0.03	24.35
	6000.00	0.19	67.41	100	5998.21	-3.86	3.86 S	61.94 E	62.06	93.56	0.48	-0.13	-223.82
	6100.00	0.34	321.68	100	6098.21	-3.56	3.56 S	61.91 E	62.02	93.29	0.43	0.15	254.27
	6200.00	0.69	277.82	100	6198.21	-3.24	3.24 S	61.13 E	61.22	93.04	0.50	0.35	-43.86
	6300.00	0.86	250.45	100	6298.20	-3.41	3.41 S	59.83 E	59.93	93.27	0.40	0.17	-27.37
	6400.00	0.66	254.23	100	6398.19	-3.82	3.82 S	58.57 E	58.69	93.73	0.21	-0.20	3.78
	6500.00	0.55	274.17	100	6498.18	-3.94	3.94 S	57.54 E	57.67	93.92	0.24	-0.11	19.94
	6600.00	0.47	284.68	100	6598.18	-3.80	3.80 S	56.66 E	56.79	93.84	0.12	-0.08	10.51
	6700.00	0.55	225.89	100	6698.18	-4.03	4.03 S	55.92 E	56.06	94.13	0.51	0.08	-58.79
	6800.00	0.69	234.93	100	6798.17	-4.71	4.71 S	55.08 E	55.28	94.89	0.17	0.14	9.04
	6900.00	0.41	251.83	100	6898.17	-5.17	5.17 S	54.25 E	54.49	95.45	0.32	-0.28	16.90
	7000.00	0.44	265.80	100	6998.16	-5.31	5.31 S	53.53 E	53.79	95.67	0.11	0.03	13.97
	7100.00	0.36	95.77	100	7098.16	-5.37	5.37 S	53.46 E	53.72	95.74	0.80	-0.08	-170.03
	7200.00	0.08	101.26	100	7198.16	-5.42	5.42 S	53.84 E	54.11	95.75	0.28	-0.28	5.49
	7300.00	0.19	212.69	100	7298.16	-5.57	5.57 S	53.82 E	54.10	95.91	0.23	0.11	111.43
	7400.00	0.16	193.41	100	7398.16	-5.85	5.85 S	53.69 E	54.01	96.21	0.07	-0.03	-19.28
	7500.00	0.30	279.40	100	7498.16	-5.94	5.94 S	53.40 E	53.73	96.35	0.33	0.14	85.99
	7600.00	0.10	90.13	100	7598.16	-5.90	5.90 S	53.23 E	53.56	96.32	0.40	-0.20	-189.27
	7700.00	0.38	220.22	100	7698.16	-6.15	6.15 S	53.10 E	53.46	96.61	0.45	0.28	130.09
	7800.00	0.73	226.92	100	7798.15	-6.84	6.84 S	52.43 E	52.87	97.43	0.36	0.35	6.70
	7900.00	0.70	233.06	100	7898.15	-7.64	7.64 S	51.47 E	52.04	98.44	0.08	-0.03	6.14
	8000.00	0.57	232.37	100	7998.14	-8.31	8.31 S	50.59 E	51.27	99.33	0.13	-0.13	-0.69
	8100.00	0.53	239.39	100	8098.14	-8.85	8.85 S	49.80 E	50.58	100.08	0.08	-0.04	7.02
	8200.00	0.75	254.53	100	8198.13	-9.26	9.26 S	48.77 E	49.64	100.75	0.28	0.22	15.14
	8300.00	0.92	183.02	100	8298.12	-10.24	10.24 S	48.10 E	49.17	102.01	0.99	0.17	-71.51
	8400.00	1.31	212.89	100	8398.10	-12.00	12.00 S	47.43 E	48.93	104.19	0.69	0.39	29.87
	8500.00	1.14	217.92	100	8498.08	-13.74	13.74 S	46.20 E	48.20	106.57	0.20	-0.17	5.03
	8600.00	1.42	230.77	100	8598.05	-15.31	15.31 S	44.63 E	47.18	108.94	0.40	0.28	12.85
	8700.00	1.29	244.75	100	8698.03	-16.57	16.57 S	42.65 E	45.76	111.24	0.35	-0.13	13.98

PHOENIX
TECHNOLOGY SERVICES

Company:	Mewbourne	Job Number:	60266	Calculation Method:	Minimum Curvature
Well:	Red Hills West Unit # 014H	Grid Corr.:	-0.34	Proposed Azimuth:	
Location:	Lea Co., New Mexico	Lat:	32.05	RKB - MSL in feet:	26.5 Feet
Rig:	Patterson 250	Long:	-103.69	Tie Into:	Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	8800.00	1.85	254.64	100	8797.99	-17.48	17.48 S	40.08 E	43.72	113.57	0.62	0.56	9.89
	8900.00	3.25	244.83	100	8897.89	-19.12	19.12 S	35.95 E	40.72	118.00	1.46	1.40	-9.81
	9000.00	3.24	234.23	100	8997.73	-21.97	21.97 S	31.10 E	38.08	125.25	0.60	-0.01	-10.60
	9100.00	2.75	254.91	100	9097.59	-24.25	24.25 S	26.49 E	35.91	132.47	1.18	-0.49	20.68
	9200.00	2.12	264.05	100	9197.50	-25.07	25.07 S	22.33 E	33.57	138.30	0.74	-0.63	9.14
	9300.00	1.49	271.59	100	9297.45	-25.22	25.22 S	19.19 E	31.69	142.73	0.67	-0.63	7.54
	9400.00	1.10	211.83	100	9397.43	-26.00	26.00 S	17.39 E	31.28	146.23	1.33	-0.39	-59.76
	9500.00	1.39	206.78	100	9497.41	-27.90	27.90 S	16.33 E	32.33	149.65	0.31	0.29	-5.05
	9600.00	1.47	209.99	100	9597.38	-30.09	30.09 S	15.15 E	33.69	153.28	0.11	0.08	3.21
	9700.00	1.49	201.65	100	9697.34	-32.41	32.41 S	14.02 E	35.32	156.60	0.22	0.02	-8.34
	9800.00	1.19	219.44	100	9797.32	-34.42	34.42 S	12.89 E	36.76	159.48	0.51	-0.30	17.79
	9900.00	0.69	112.88	100	9897.31	-35.46	35.46 S	12.78 E	37.69	160.18	1.54	-0.50	-106.56
	10000.00	1.45	137.61	100	9997.29	-36.63	36.63 S	14.19 E	39.28	158.83	0.87	0.76	24.73
	10100.00	1.58	155.97	100	10097.26	-38.82	38.82 S	15.60 E	41.84	158.10	0.50	0.13	18.36
	10200.00	1.33	156.67	100	10197.22	-41.15	41.15 S	16.62 E	44.38	158.00	0.25	-0.25	0.70
	10300.00	1.06	265.45	100	10297.21	-42.28	42.28 S	16.16 E	45.27	159.08	1.95	-0.27	108.78
	10400.00	2.32	210.90	100	10397.17	-44.10	44.10 S	14.20 E	46.32	162.15	1.91	1.26	-54.55
	10500.00	3.13	231.58	100	10497.06	-47.53	47.53 S	11.02 E	48.79	166.95	1.26	0.81	20.68
	10600.00	3.02	243.59	100	10596.92	-50.40	50.40 S	6.52 E	50.82	172.63	0.65	-0.11	12.01
	10700.00	2.54	249.55	100	10696.80	-52.34	52.34 S	2.09 E	52.38	177.72	0.56	-0.48	5.96
	10800.00	1.34	226.50	100	10796.74	-53.92	53.92 S	0.84 W	53.93	180.89	1.41	-1.20	-23.05
	10900.00	0.99	196.59	100	10896.72	-55.55	55.55 S	1.93 W	55.59	181.99	0.69	-0.35	-29.91
	11000.00	1.36	150.11	100	10996.70	-57.41	57.41 S	1.59 W	57.43	181.58	0.99	0.37	-46.48
	11100.00	1.57	154.28	100	11096.67	-59.67	59.67 S	0.40 W	59.68	180.39	0.24	0.21	4.17
	11200.00	1.67	155.20	100	11196.63	-62.23	62.23 S	0.80 E	62.24	179.26	0.10	0.10	0.92
	11215.00	1.74	152.02	15	11211.62	-62.63	62.63 S	1.00 E	62.64	179.08	0.78	0.47	-21.20