



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

February 13, 2018

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

HOBBS OCD

FEB 19 2018

RECEIVED

Dear District 1 - Hobbs

Attention: Regulatory Department

Re: Mewbourne Oil
Ram 3 B3PA State Com 1H
Lea County, New Mexico
API #30-025-43425
Job No. 62331

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	5,495	2/11/18	2/11/18	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 #: 62331

Well Name: Ram 3 B3PA State Com 1H

County/State: Lea Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-43425

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 (°)
2018-02-11	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-02-11	5495	22.14	145.88

Projected TD Survey

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

Grid Correction
-0.47

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: 02-11-18

Print Name: Noe Garza

Signature: 



Company: Mewbourne
 Well: Ram 3 B3PA State Com 1H
 Location: Lea Co., New Mexico
 Rig: Patterson 220

Job Number: 62331
 Grid Corr.: -0.47
 Lat: 32.43
 Long: -103.45

Date: 02-11-18
 Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 26.5
 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	0.27	322.50	100	100.00	0.19	0.19 N	0.14 W	0.24	322.50	0.27	0.27	322.50
	200.00	0.22	294.07	100	200.00	0.45	0.45 N	0.46 W	0.65	314.37	0.13	-0.05	-28.43
	300.00	0.25	297.13	100	300.00	0.63	0.63 N	0.83 W	1.04	307.14	0.03	0.03	3.06
	400.00	0.34	25.35	100	400.00	1.00	1.00 N	0.90 W	1.34	317.98	0.42	0.09	-271.78
	500.00	0.20	330.05	100	500.00	1.42	1.42 N	0.86 W	1.66	328.78	0.28	-0.14	304.70
	600.00	0.45	303.47	100	599.99	1.78	1.78 N	1.27 W	2.19	324.49	0.29	0.25	-26.58
	700.00	0.54	330.81	100	699.99	2.41	2.41 N	1.83 W	3.03	322.81	0.25	0.09	27.34
	800.00	0.58	8.79	100	799.99	3.32	3.32 N	1.98 W	3.87	329.18	0.37	0.04	-322.02
	900.00	0.42	27.65	100	899.98	4.15	4.15 N	1.74 W	4.50	337.30	0.23	-0.16	18.86
	1000.00	0.30	89.83	100	999.98	4.47	4.47 N	1.30 W	4.66	343.75	0.39	-0.12	62.18
	1100.00	0.14	336.31	100	1099.98	4.59	4.59 N	1.09 W	4.72	346.62	0.38	-0.16	246.48
	1200.00	0.52	260.02	100	1199.98	4.62	4.62 N	1.59 W	4.89	341.04	0.51	0.38	-76.29
	1300.00	0.57	273.03	100	1299.97	4.57	4.57 N	2.53 W	5.22	331.01	0.13	0.05	13.01
	1400.00	0.55	256.77	100	1399.97	4.48	4.48 N	3.49 W	5.69	322.07	0.16	-0.02	-16.26
	1500.00	0.25	2.53	100	1499.97	4.59	4.59 N	3.95 W	6.06	319.28	0.66	-0.30	-254.24
	1600.00	0.24	288.34	100	1599.97	4.88	4.88 N	4.14 W	6.40	319.66	0.30	-0.01	285.81
	1700.00	0.48	69.08	100	1699.97	5.09	5.09 N	3.95 W	6.44	322.20	0.68	0.24	-219.26
	1800.00	0.80	276.45	100	1799.96	5.32	5.32 N	4.25 W	6.81	321.37	1.25	0.32	207.37
	1900.00	0.81	245.68	100	1899.95	5.11	5.11 N	5.59 W	7.57	312.42	0.43	0.01	-30.77
	2000.00	1.09	207.36	100	1999.94	3.97	3.97 N	6.67 W	7.76	300.77	0.68	0.28	-38.32
	2100.00	0.67	150.91	100	2099.93	2.62	2.62 N	6.82 W	7.31	290.97	0.91	-0.42	-56.45
	2200.00	0.69	184.59	100	2199.92	1.50	1.50 N	6.59 W	6.76	282.87	0.39	0.02	33.68
	2300.00	0.92	136.63	100	2299.91	0.32	0.32 N	6.08 W	6.09	273.02	0.69	0.23	-47.96
	2400.00	0.59	84.71	100	2399.91	-0.22	0.22 S	5.02 W	5.03	267.54	0.72	-0.33	-51.92
	2500.00	0.18	246.12	100	2499.91	-0.23	0.23 S	4.65 W	4.66	267.15	0.76	-0.41	161.41
	2600.00	0.63	96.30	100	2599.90	-0.36	0.36 S	4.25 W	4.26	265.22	0.79	0.45	-149.82
	2700.00	0.55	17.09	100	2699.90	0.04	0.04 N	3.56 W	3.56	270.69	0.75	-0.08	-79.21



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							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2800.00	0.73	56.45	100	2799.89	0.85	0.85 N	2.89 W	3.01	286.47	0.46	0.18	39.36
	2900.00	0.50	93.22	100	2899.89	1.18	1.18 N	1.92 W	2.26	301.57	0.45	-0.23	36.77
	3000.00	0.29	91.84	100	2999.89	1.15	1.15 N	1.23 W	1.69	312.95	0.21	-0.21	-1.38
	3100.00	0.31	35.57	100	3099.89	1.36	1.36 N	0.82 W	1.59	328.81	0.28	0.02	-56.27
	3200.00	0.79	78.22	100	3199.88	1.72	1.72 N	0.01 E	1.72	0.28	0.60	0.48	42.65
	3300.00	0.47	6.54	100	3299.88	2.27	2.27 N	0.73 E	2.38	17.83	0.78	-0.32	-71.68
	3400.00	0.97	73.73	100	3399.87	2.91	2.91 N	1.59 E	3.32	28.61	0.90	0.50	67.19
	3500.00	1.20	71.28	100	3499.85	3.49	3.49 N	3.39 E	4.87	44.22	0.23	0.23	-2.45
	3600.00	1.11	66.85	100	3599.83	4.20	4.20 N	5.28 E	6.75	51.45	0.13	-0.09	-4.43
	3700.00	1.27	48.70	100	3699.81	5.32	5.32 N	7.00 E	8.79	52.78	0.41	0.16	-18.15
	3800.00	0.92	37.39	100	3799.79	6.69	6.69 N	8.32 E	10.67	51.21	0.41	-0.35	-11.31
	3900.00	0.92	81.00	100	3899.78	7.45	7.45 N	9.60 E	12.15	52.19	0.68	0.00	43.61
	4000.00	0.84	47.14	100	3999.77	8.07	8.07 N	10.93 E	13.59	53.55	0.52	-0.08	-33.86
	4100.00	0.36	85.84	100	4099.76	8.60	8.60 N	11.78 E	14.58	53.89	0.60	-0.48	38.70
	4200.00	0.86	104.50	100	4199.76	8.43	8.43 N	12.82 E	15.34	56.67	0.53	0.50	18.66
	4300.00	0.28	331.28	100	4299.75	8.46	8.46 N	13.43 E	15.87	57.80	1.07	-0.58	226.78
	4400.00	1.53	73.45	100	4399.74	9.05	9.05 N	14.59 E	17.17	58.19	1.61	1.25	-257.83
	4500.00	1.88	46.14	100	4499.70	10.57	10.57 N	17.05 E	20.06	58.22	0.87	0.35	-27.31
	4600.00	2.19	45.63	100	4599.64	13.04	13.04 N	19.60 E	23.54	56.37	0.31	0.31	-0.51
	4700.00	1.99	38.86	100	4699.57	15.73	15.73 N	22.06 E	27.09	54.51	0.32	-0.20	-6.77
	4800.00	2.52	62.25	100	4799.49	18.10	18.10 N	25.09 E	30.94	54.19	1.05	0.53	23.39
	4900.00	3.32	75.76	100	4899.36	19.84	19.84 N	29.85 E	35.84	56.39	1.05	0.80	13.51
	5000.00	5.61	112.29	100	4999.07	18.70	18.70 N	37.18 E	41.61	63.30	3.54	2.29	36.53
	5100.00	8.86	123.58	100	5098.27	12.58	12.58 N	48.12 E	49.74	75.35	3.53	3.25	11.29
	5200.00	12.23	131.54	100	5196.57	1.30	1.30 N	62.47 E	62.48	88.81	3.66	3.37	7.96
	5300.00	16.02	136.76	100	5293.53	-15.79	15.79 S	79.86 E	81.40	101.18	3.99	3.79	5.22
	5400.00	19.29	141.58	100	5388.81	-38.79	38.79 S	99.58 E	106.87	111.28	3.58	3.27	4.82
	5495.00	22.14	145.88	95	5477.67	-65.91	65.91 S	119.38 E	136.36	118.90	3.40	3.00	4.53