



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

October 12, 2016

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

HOBBS OCD

OCT 17 2016

RECEIVED

Dear District 1 - Hobbs

Attention: Regulatory Department

Re: Mewbourne Oil
Oryx 14 B3DM Fed Com #1H
Lea County, New Mexico
API #30-025-43424
Job No. 60408

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	9580	10/05/16	10/05/16	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



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TECHNOLOGY SERVICES

Company: Mewbourne

Well Name: Oryx 14 B3DM Fed Com # 1H

Survey Instrument Type: North Seek Rate Gyro

HOBBS OCD

OCT 17 2016

RECEIVED

Job #: 60408

County/State: Lea Co., New Mexico

API # 30-025-43424

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 (°)
2016-10-05	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2016-10-05	9580	1.88	294.19

Projected TD Survey

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

Grid Correction
-1.01

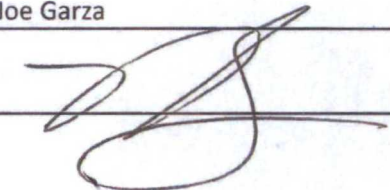
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Jaime Stephenson

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

Date: 10-05-16

Print Name: Noe Garza

Signature: 



Company: Mewbourne
 Well: Oryx 14 B3DM Fed Com # 1H
 Location: Lea Co., New Mexico
 Rig: Patterson 250

Job Number: 60408
 Grid Corr.: -1.01
 Lat: 32.31
 Long: -102.45

Date: 10-05-16
 Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 26.6
 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	0.50	324.84	100	100.00	0.36	0.36 N	0.25 W	0.44	324.84	0.50	0.50	324.84
	200.00	0.24	183.60	100	200.00	0.50	0.50 N	0.52 W	0.72	314.37	0.70	-0.26	-141.24
	300.00	0.32	38.48	100	300.00	0.51	0.51 N	0.36 W	0.62	325.36	0.53	0.08	-145.12
	400.00	0.46	350.97	100	400.00	1.13	1.13 N	0.24 W	1.16	347.79	0.34	0.14	312.49
	500.00	0.56	126.37	100	499.99	1.24	1.24 N	0.09 E	1.24	3.99	0.94	0.10	-224.60
	600.00	0.53	307.94	100	599.99	1.23	1.23 N	0.11 E	1.24	5.34	1.09	-0.03	181.57
	700.00	0.18	117.31	100	699.99	1.44	1.44 N	0.11 W	1.45	355.63	0.71	-0.35	-190.63
	800.00	0.58	51.23	100	799.99	1.69	1.69 N	0.42 E	1.74	14.10	0.53	0.40	-66.08
	900.00	0.33	352.29	100	899.99	2.29	2.29 N	0.78 E	2.42	18.81	0.50	-0.25	301.06
	1000.00	1.42	93.34	100	999.98	2.50	2.50 N	1.98 E	3.19	38.32	1.52	1.09	-258.95
	1100.00	1.48	63.55	100	1099.94	3.01	3.01 N	4.37 E	5.31	55.49	0.75	0.06	-29.79
	1200.00	0.67	102.15	100	1199.93	3.46	3.46 N	6.10 E	7.01	60.45	1.04	-0.81	38.60
	1300.00	1.12	115.48	100	1299.92	2.91	2.91 N	7.55 E	8.10	68.90	0.49	0.45	13.33
	1400.00	1.09	117.49	100	1399.90	2.06	2.06 N	9.28 E	9.50	77.51	0.05	-0.03	2.01
	1500.00	2.12	158.66	100	1499.86	-0.11	0.11 S	10.80 E	10.80	90.57	1.48	1.03	41.17
	1600.00	3.57	169.99	100	1599.73	-4.90	4.90 S	12.01 E	12.97	112.18	1.55	1.45	11.33
	1700.00	6.51	178.35	100	1699.34	-13.63	13.63 S	12.72 E	18.64	136.99	3.02	2.94	8.36
	1800.00	8.28	181.96	100	1798.50	-26.49	26.49 S	12.63 E	29.35	154.51	1.83	1.77	3.61
	1900.00	9.06	184.90	100	1897.36	-41.54	41.54 S	11.71 E	43.16	164.25	0.90	0.78	2.94
	2000.00	9.35	185.57	100	1996.07	-57.47	57.47 S	10.25 E	58.37	169.88	0.31	0.29	0.67
	2100.00	9.10	186.04	100	2094.78	-73.41	73.41 S	8.63 E	73.92	173.29	0.26	-0.25	0.47
	2200.00	11.34	186.73	100	2193.19	-91.04	91.04 S	6.65 E	91.29	175.82	2.24	2.24	0.69
	2300.00	11.11	185.68	100	2291.27	-110.40	110.40 S	4.54 E	110.49	177.64	0.31	-0.23	-1.05
	2400.00	8.40	182.95	100	2389.82	-127.28	127.28 S	3.21 E	127.32	178.55	2.75	-2.71	-2.73
	2500.00	5.65	156.53	100	2489.08	-139.10	139.10 S	4.80 E	139.18	178.02	4.18	-2.75	-26.42
	2600.00	2.66	171.30	100	2588.81	-145.91	145.91 S	7.11 E	146.08	177.21	3.15	-2.99	14.77
	2700.00	0.36	64.94	100	2688.78	-148.07	148.07 S	7.74 E	148.27	177.01	2.78	-2.30	-106.36



Company: Mewbourne
Well: Oryx 14 B3DM Fed Com # 1H
Location: Lea Co., New Mexico
Rig: Patterson 250

Job Number: 60408
Grid Corr.: -1.01
Lat: 32.31
Long: -102.45

Calculation Method: Minimum Curvature
Proposed Azimuth:
RKB - MSL in feet: 26.6
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclina- tion (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)			
	2800.00	0.36	79.41	100	2788.77	-147.88	147.88 S	8.34 E	148.11	176.77	0.09	0.00	14.47
	2900.00	0.46	108.56	100	2888.77	-147.95	147.95 S	9.03 E	148.22	176.51	0.23	0.10	29.15
	3000.00	0.17	33.62	100	2988.77	-147.95	147.95 S	9.49 E	148.25	176.33	0.45	-0.29	-74.94
	3100.00	0.81	82.41	100	3088.77	-147.73	147.73 S	10.27 E	148.09	176.02	0.71	0.64	48.79
	3200.00	0.48	96.66	100	3188.76	-147.69	147.69 S	11.39 E	148.13	175.59	0.36	-0.33	14.25
	3300.00	0.60	77.20	100	3288.75	-147.62	147.62 S	12.32 E	148.13	175.23	0.22	0.12	-19.46
	3400.00	1.05	84.33	100	3388.74	-147.42	147.42 S	13.74 E	148.05	174.68	0.46	0.45	7.13
	3500.00	1.84	59.12	100	3488.71	-146.50	146.50 S	16.03 E	147.37	173.76	1.00	0.79	-25.21
	3600.00	2.43	60.73	100	3588.64	-144.64	144.64 S	19.26 E	145.92	172.42	0.59	0.59	1.61
	3700.00	2.61	55.09	100	3688.55	-142.30	142.30 S	22.97 E	144.14	170.83	0.31	0.18	-5.64
	3800.00	1.41	59.24	100	3788.48	-140.37	140.37 S	25.90 E	142.74	169.55	1.21	-1.20	4.15
	3900.00	1.34	38.16	100	3888.45	-138.82	138.82 S	27.68 E	141.55	168.72	0.51	-0.07	-21.08
	4000.00	0.81	291.40	100	3988.44	-137.64	137.64 S	27.74 E	140.41	168.61	1.75	-0.53	253.24
	4100.00	1.39	39.45	100	4088.43	-136.45	136.45 S	27.85 E	139.26	168.46	1.81	0.58	-251.95
	4200.00	1.55	107.69	100	4188.41	-135.92	135.92 S	29.91 E	139.17	167.59	1.65	0.16	68.24
	4300.00	2.03	54.24	100	4288.36	-135.30	135.30 S	32.64 E	139.18	166.44	1.67	0.48	-53.45
	4400.00	2.36	53.13	100	4388.29	-133.03	133.03 S	35.72 E	137.74	164.97	0.33	0.33	-1.11
	4500.00	2.43	91.44	100	4488.21	-131.85	131.85 S	39.49 E	137.63	163.33	1.57	0.07	38.31
	4600.00	1.52	66.90	100	4588.15	-131.38	131.38 S	42.83 E	138.18	161.94	1.22	-0.91	-24.54
	4700.00	1.33	60.30	100	4688.12	-130.28	130.28 S	45.06 E	137.85	160.92	0.25	-0.19	-6.60
	4800.00	1.55	50.00	100	4788.09	-128.84	128.84 S	47.10 E	137.18	159.92	0.34	0.22	-10.30
	4900.00	1.53	42.60	100	4888.05	-126.99	126.99 S	49.04 E	136.13	158.88	0.20	-0.02	-7.40
	5000.00	1.70	72.51	100	4988.01	-125.56	125.56 S	51.36 E	135.66	157.75	0.85	0.17	29.91
	5100.00	1.63	40.07	100	5087.97	-124.02	124.02 S	53.69 E	135.15	156.59	0.93	-0.07	-32.44
	5200.00	1.38	32.56	100	5187.94	-121.92	121.92 S	55.25 E	133.86	155.62	0.32	-0.25	-7.51
	5300.00	1.46	24.34	100	5287.91	-119.74	119.74 S	56.43 E	132.37	154.77	0.22	0.08	-8.22
	5400.00	1.37	23.30	100	5387.88	-117.49	117.49 S	57.42 E	130.77	153.95	0.09	-0.09	-1.04
	5500.00	1.37	29.64	100	5487.85	-115.35	115.35 S	58.49 E	129.33	153.11	0.15	0.00	6.34
	5600.00	1.21	23.09	100	5587.82	-113.34	113.34 S	59.49 E	128.00	152.30	0.22	-0.16	-6.55
	5700.00	1.11	37.44	100	5687.80	-111.60	111.60 S	60.50 E	126.94	151.54	0.31	-0.10	14.35



Company: Mewbourne
Well: Oryx 14 B3DM Fed Com # 1H
Location: Lea Co., New Mexico
Rig: Patterson 250

Job Number: 60408
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Long: -102.45

Calculation Method: Minimum Curvature
Proposed Azimuth:
RKB - MSL in feet: 26.6
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)			
	5800.00	1.13	32.95	100	5787.78	-110.00	110.00 S	61.62 E	126.09	150.74	0.09	0.02	-4.49
	5900.00	0.97	29.72	100	5887.77	-108.44	108.44 S	62.58 E	125.20	150.01	0.17	-0.16	-3.23
	6000.00	1.57	28.43	100	5987.74	-106.50	106.50 S	63.65 E	124.07	149.14	0.60	0.60	-1.29
	6100.00	1.30	22.68	100	6087.71	-104.25	104.25 S	64.74 E	122.71	148.16	0.31	-0.27	-5.75
	6200.00	1.27	28.19	100	6187.69	-102.23	102.23 S	65.70 E	121.52	147.27	0.13	-0.03	5.51
	6300.00	1.23	20.87	100	6287.66	-100.25	100.25 S	66.61 E	120.36	146.40	0.16	-0.04	-7.32
	6400.00	1.53	22.38	100	6387.63	-98.01	98.01 S	67.50 E	119.00	145.45	0.30	0.30	1.51
	6500.00	1.45	17.26	100	6487.60	-95.57	95.57 S	68.38 E	117.51	144.42	0.16	-0.08	-5.12
	6600.00	1.10	20.46	100	6587.57	-93.46	93.46 S	69.09 E	116.22	143.53	0.36	-0.35	3.20
	6700.00	0.88	351.64	100	6687.56	-91.80	91.80 S	69.31 E	115.03	142.94	0.54	-0.22	331.18
	6800.00	1.00	22.54	100	6787.55	-90.23	90.23 S	69.54 E	113.92	142.38	0.51	0.12	-329.10
	6900.00	1.16	16.31	100	6887.53	-88.46	88.46 S	70.16 E	112.90	141.58	0.20	0.16	-6.23
	7000.00	0.93	26.36	100	6987.51	-86.76	86.76 S	70.80 E	111.98	140.78	0.29	-0.23	10.05
	7100.00	0.71	25.99	100	7087.50	-85.47	85.47 S	71.43 E	111.39	140.11	0.22	-0.22	-0.37
	7200.00	0.61	39.90	100	7187.50	-84.51	84.51 S	72.05 E	111.05	139.55	0.19	-0.10	13.91
	7300.00	0.52	55.47	100	7287.49	-83.84	83.84 S	72.76 E	111.01	139.05	0.18	-0.09	15.57
	7400.00	0.70	351.46	100	7387.49	-82.98	82.98 S	73.04 E	110.55	138.64	0.66	0.18	295.99
	7500.00	1.10	338.79	100	7487.47	-81.48	81.48 S	72.61 E	109.14	138.30	0.44	0.40	-12.67
	7600.00	0.74	333.13	100	7587.46	-80.01	80.01 S	71.97 E	107.61	138.03	0.37	-0.36	-5.66
	7700.00	0.91	331.64	100	7687.45	-78.74	78.74 S	71.30 E	106.22	137.84	0.17	0.17	-1.49
	7800.00	0.94	329.74	100	7787.44	-77.33	77.33 S	70.51 E	104.65	137.64	0.04	0.03	-1.90
	7900.00	1.12	326.00	100	7887.42	-75.81	75.81 S	69.55 E	102.88	137.47	0.19	0.18	-3.74
	8000.00	1.07	324.81	100	7987.40	-74.24	74.24 S	68.46 E	100.99	137.32	0.05	-0.05	-1.19
	8100.00	1.21	328.19	100	8087.38	-72.58	72.58 S	67.37 E	99.02	137.13	0.16	0.14	3.38
	8200.00	1.35	330.25	100	8187.36	-70.66	70.66 S	66.23 E	96.84	136.85	0.15	0.14	2.06
	8300.00	1.48	319.59	100	8287.33	-68.65	68.65 S	64.81 E	94.41	136.65	0.29	0.13	-10.66
	8400.00	1.42	324.23	100	8387.30	-66.66	66.66 S	63.24 E	91.89	136.51	0.13	-0.06	4.64
	8500.00	1.55	319.77	100	8487.26	-64.62	64.62 S	61.65 E	89.31	136.35	0.17	0.13	-4.46
	8600.00	1.83	298.70	100	8587.22	-62.82	62.82 S	59.37 E	86.44	136.62	0.68	0.28	-21.07
	8700.00	1.88	312.77	100	8687.17	-60.94	60.94 S	56.77 E	83.29	137.03	0.46	0.05	14.07



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							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	8800.00	2.06	326.94	100	8787.11	-58.32	58.32 S	54.58 E	79.88	136.90	0.52	0.18	14.17
	8900.00	2.43	317.13	100	8887.03	-55.26	55.26 S	52.16 E	75.99	136.65	0.53	0.37	-9.81
	9000.00	2.91	316.99	100	8986.92	-51.85	51.85 S	48.99 E	71.33	136.63	0.48	0.48	-0.14
	9100.00	2.94	312.66	100	9086.79	-48.26	48.26 S	45.37 E	66.24	136.77	0.22	0.03	-4.33
	9200.00	3.16	316.00	100	9186.65	-44.54	44.54 S	41.57 E	60.92	136.98	0.28	0.22	3.34
	9300.00	3.59	318.38	100	9286.48	-40.22	40.22 S	37.57 E	55.04	136.95	0.45	0.43	2.38
	9400.00	3.39	311.20	100	9386.29	-35.93	35.93 S	33.27 E	48.97	137.20	0.48	-0.20	-7.18
	9500.00	2.60	306.20	100	9486.16	-32.64	32.64 S	29.22 E	43.81	138.17	0.83	-0.79	-5.00
	9580.00	1.88	294.19	80	9566.09	-31.03	31.03 S	26.55 E	40.84	139.45	1.07	-0.90	-15.01