



NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 17 2016

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Mewbourne Oil Company .

Eddy County, New Mexico

Section 5-19S-29E Gobbler 5 B2IL St Com 1H

Gobbler 5 B2IL State Com #1H

30-015-42954

Original Hole

Design: Original Hole

Standard Survey Report

04 August, 2016





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Gobbler 5 B2IL State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3397 + 20 @ 3417.0usft (Patterson 231)
Site:	Section 5-19S-29E Gobbler 5 B2IL St Com 1H	MD Reference:	3397 + 20 @ 3417.0usft (Patterson 231)
Well:	Gobbler 5 B2IL State Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 5-19S-29E Gobbler 5 B2IL St Com 1H		
Site Position:		Northing:	613,821.80 usft
From:	Map	Easting:	575,233.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 14.125 N
		Longitude:	104° 5' 19.677 W
		Grid Convergence:	0.13 °

Well	Gobbler 5 B2IL State Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 613,821.80 usft
	+E/-W	0.0 usft	Easting: 575,233.50 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	20.0 usft
		Latitude:	32° 41' 14.125 N
		Longitude:	104° 5' 19.677 W
		Ground Level:	3,397.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/13/2016	7.33	60.42	48,253

Design	Original Hole		
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Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	28.72

Survey Program	Date 8/4/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	6,425.0	Phoenix Gyro Survey (Original Hole)	GyroFlex
6,505.0	12,320.0	MWD Survey (Original Hole)	MWD
			MWD v3:standard declination

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.25	324.88	100.0	0.2	-0.1	0.1	0.25	0.25	0.00
200.0	0.43	70.63	200.0	0.5	0.1	0.5	0.55	0.18	105.75
300.0	0.65	105.04	300.0	0.5	1.0	0.9	0.38	0.22	34.41
400.0	0.75	79.77	400.0	0.4	2.2	1.4	0.32	0.10	-25.27
500.0	0.78	89.88	500.0	0.5	3.5	2.2	0.14	0.03	10.11
600.0	0.81	78.05	600.0	0.7	4.9	3.0	0.17	0.03	-11.83
700.0	1.50	79.09	699.9	1.1	6.9	4.3	0.69	0.69	1.04
800.0	1.63	85.34	799.9	1.5	9.6	5.9	0.21	0.13	6.25
900.0	1.49	77.75	899.9	1.8	12.3	7.5	0.25	-0.14	-7.59



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	1.37	78.51	999.8	2.4	14.7	9.1	0.12	-0.12	0.76
1,100.0	1.25	58.76	1,099.8	3.2	16.8	10.8	0.46	-0.12	-19.75
1,200.0	1.52	53.93	1,199.8	4.5	18.8	13.0	0.29	0.27	-4.83
1,300.0	1.76	51.03	1,299.7	6.3	21.1	15.6	0.25	0.24	-2.90
1,400.0	1.74	51.60	1,399.7	8.2	23.5	18.4	0.03	-0.02	0.57
1,500.0	2.56	48.46	1,499.6	10.6	26.3	21.9	0.83	0.82	-3.14
1,600.0	2.66	40.68	1,599.5	13.8	29.5	26.3	0.37	0.10	-7.78
1,700.0	2.91	41.19	1,699.4	17.5	32.7	31.1	0.25	0.25	0.51
1,800.0	3.17	36.04	1,799.3	21.6	36.0	36.3	0.38	0.26	-5.15
1,900.0	3.40	52.51	1,899.1	25.7	40.0	41.7	0.97	0.23	16.47
2,000.0	3.28	42.69	1,998.9	29.6	44.3	47.2	0.58	-0.12	-9.82
2,100.0	3.80	19.16	2,098.7	34.8	47.3	53.3	1.53	0.52	-23.53
2,200.0	3.49	20.54	2,198.5	40.8	49.4	59.5	0.32	-0.31	1.38
2,300.0	3.56	25.29	2,298.4	46.5	51.8	65.7	0.30	0.07	4.75
2,400.0	3.66	42.81	2,398.2	51.6	55.3	71.9	1.10	0.10	17.52
2,500.0	3.46	69.34	2,498.0	55.0	60.3	77.2	1.64	-0.20	26.53
2,600.0	3.31	26.41	2,597.8	58.7	64.4	82.4	2.48	-0.15	-42.93
2,700.0	3.26	16.64	2,697.7	64.0	66.5	88.1	0.56	-0.05	-9.77
2,800.0	3.47	355.95	2,797.5	69.7	67.1	93.4	1.23	0.21	-20.69
2,900.0	2.94	12.62	2,897.3	75.2	67.5	98.4	1.07	-0.53	16.67
3,000.0	3.65	60.56	2,997.2	79.3	70.8	103.6	2.75	0.71	47.94
3,100.0	3.72	48.53	3,097.0	83.0	76.0	109.3	0.77	0.07	-12.03
3,200.0	4.11	46.88	3,196.7	87.6	81.1	115.8	0.41	0.39	-1.65
3,300.0	4.07	34.65	3,296.5	93.0	85.7	122.7	0.87	-0.04	-12.23
3,400.0	3.52	81.32	3,396.3	96.4	90.8	128.1	3.05	-0.55	46.67
3,500.0	3.50	250.13	3,496.2	95.8	90.9	127.7	6.99	-0.02	168.81
3,600.0	3.11	355.66	3,596.1	97.5	87.8	127.7	5.27	-0.39	105.53
3,700.0	3.16	25.43	3,696.0	102.7	88.8	132.7	1.61	0.05	29.77
3,800.0	3.57	16.32	3,795.8	108.1	90.9	138.5	0.67	0.41	-9.11
3,900.0	4.72	20.71	3,895.6	115.0	93.2	145.6	1.19	1.15	4.39
4,000.0	6.33	12.99	3,995.1	124.2	95.9	155.0	1.77	1.61	-7.72
4,100.0	3.76	21.98	4,094.7	132.6	98.4	163.6	2.68	-2.57	8.99
4,200.0	2.31	4.91	4,194.6	137.7	99.8	168.7	1.69	-1.45	-17.07
4,300.0	0.20	314.60	4,294.5	139.8	99.8	170.6	2.19	-2.11	-50.31
4,400.0	0.33	179.56	4,394.5	139.6	99.7	170.4	0.49	0.13	-135.04
4,500.0	0.63	167.41	4,494.5	138.8	99.8	169.7	0.32	0.30	-12.15
4,600.0	0.46	117.39	4,594.5	138.1	100.3	169.3	0.49	-0.17	-50.02
4,700.0	0.48	159.38	4,694.5	137.5	100.8	169.0	0.34	0.02	41.99
4,800.0	0.44	269.17	4,794.5	137.1	100.6	168.6	0.75	-0.04	109.79
4,900.0	0.59	275.42	4,894.5	137.1	99.7	168.2	0.16	0.15	6.25
5,000.0	0.70	287.56	4,994.5	137.4	98.6	167.8	0.17	0.11	12.14
5,100.0	0.97	294.11	5,094.5	137.9	97.2	167.7	0.29	0.27	6.55
5,200.0	1.11	289.01	5,194.5	138.6	95.5	167.4	0.17	0.14	-5.10



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	1.16	300.34	5,294.5	139.4	93.7	167.3	0.23	0.05	11.33
5,400.0	1.26	324.98	5,394.4	140.8	92.2	167.8	0.53	0.10	24.64
5,500.0	0.64	88.40	5,494.4	141.7	92.2	168.6	1.70	-0.62	123.42
5,600.0	1.67	344.49	5,594.4	143.1	92.3	169.9	1.93	1.03	-103.91
5,700.0	1.49	29.36	5,694.4	145.7	92.6	172.2	1.22	-0.18	44.87
5,800.0	1.05	35.91	5,794.4	147.6	93.7	174.5	0.46	-0.44	6.55
5,900.0	2.54	324.75	5,894.3	150.1	93.0	176.3	2.41	1.49	-71.16
6,000.0	2.31	350.06	5,994.2	153.9	91.4	178.9	1.09	-0.23	25.31
6,100.0	1.47	24.04	6,094.2	157.1	91.6	181.7	1.37	-0.84	33.98
6,200.0	1.39	350.61	6,194.1	159.4	91.9	184.0	0.83	-0.08	-33.43
6,300.0	2.31	349.43	6,294.1	162.6	91.3	186.5	0.92	0.92	-1.18
6,400.0	1.23	3.63	6,394.0	165.7	91.0	189.0	1.16	-1.08	14.20
6,425.0	1.27	8.63	6,419.0	166.2	91.1	189.5	0.46	0.16	20.00
6425' MD Phoenix Gyro									
6,505.0	0.60	282.40	6,499.0	167.2	90.8	190.2	1.71	-0.84	-107.79
6,600.0	0.20	310.70	6,594.0	167.4	90.2	190.1	0.46	-0.42	29.79
6,696.0	0.20	288.60	6,690.0	167.5	89.9	190.1	0.08	0.00	-23.02
6,791.0	0.30	63.50	6,785.0	167.7	90.0	190.3	0.49	0.11	142.00
6,886.0	0.40	102.70	6,880.0	167.7	90.5	190.6	0.27	0.11	41.26
6,980.0	0.20	358.00	6,974.0	167.8	90.8	190.8	0.52	-0.21	-111.38
7,075.0	0.60	30.80	7,069.0	168.4	91.1	191.5	0.47	0.42	34.53
7,170.0	3.10	268.80	7,164.0	168.8	88.8	190.7	3.64	2.63	-128.42
7,202.0	6.90	267.00	7,195.8	168.7	86.0	189.2	11.88	11.88	-5.63
7,234.0	9.10	273.70	7,227.5	168.7	81.5	187.2	7.46	6.88	20.94
7,265.0	10.90	277.30	7,258.1	169.3	76.2	185.1	6.14	5.81	11.61
7,297.0	14.00	278.30	7,289.3	170.2	69.3	182.6	9.71	9.69	3.13
7,329.0	16.40	268.60	7,320.2	170.7	61.0	179.0	10.90	7.50	-30.31
7,360.0	18.70	269.10	7,349.7	170.5	51.6	174.3	7.44	7.42	1.61
7,392.0	20.60	266.80	7,379.9	170.1	40.9	168.8	6.41	5.94	-7.19
7,423.0	23.30	265.20	7,408.6	169.3	29.3	162.5	8.92	8.71	-5.16
7,455.0	25.80	264.10	7,437.7	168.0	16.1	155.1	7.94	7.81	-3.44
7,486.0	25.80	266.00	7,465.6	166.9	2.7	147.6	2.67	0.00	6.13
7,518.0	28.70	265.00	7,494.1	165.7	-11.9	139.6	9.17	9.06	-3.13
7,550.0	29.00	266.00	7,522.1	164.5	-27.3	131.1	1.78	0.94	3.13
7,582.0	26.00	265.90	7,550.5	163.5	-42.1	123.1	9.38	-9.38	-0.31
7,613.0	25.60	261.00	7,578.4	161.9	-55.5	115.3	7.00	-1.29	-15.81
7,644.0	28.60	257.30	7,606.0	159.2	-69.3	106.3	11.10	9.68	-11.94
7,676.0	32.00	259.00	7,633.6	155.9	-85.1	95.9	10.96	10.63	5.31
7,708.0	33.90	262.70	7,660.5	153.2	-102.3	85.2	8.65	5.94	11.56
7,740.0	36.70	264.60	7,686.6	151.2	-120.7	74.6	9.40	8.75	5.94
7,771.0	40.70	266.70	7,710.8	149.7	-140.0	64.0	13.58	12.90	6.77
7,803.0	44.90	267.50	7,734.3	148.6	-161.7	52.6	13.23	13.13	2.50
7,834.0	48.70	268.50	7,755.5	147.8	-184.3	41.1	12.48	12.26	3.23



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Design:	Original Hole	Database:	Stryker_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,866.0	53.80	268.90	7,775.5	147.3	-209.2	28.6	15.97	15.94	1.25
7,898.0	60.00	268.50	7,793.0	146.6	-236.0	15.2	19.40	19.38	-1.25
7,930.0	66.50	268.20	7,807.4	145.8	-264.6	0.8	20.33	20.31	-0.94
7,962.0	74.10	267.80	7,818.1	144.8	-294.7	-14.6	23.78	23.75	-1.25
8,018.0	84.90	266.50	7,828.3	142.0	-349.6	-43.4	19.42	19.29	-2.32
8,114.0	88.40	266.70	7,833.9	136.3	-445.2	-94.4	3.65	3.65	0.21
8,209.0	91.20	268.10	7,834.3	132.0	-540.1	-143.7	3.30	2.95	1.47
8,304.0	92.70	267.80	7,831.0	128.6	-635.0	-192.3	1.61	1.58	-0.32
8,399.0	93.80	267.20	7,825.7	124.5	-729.7	-241.5	1.32	1.16	-0.63
8,494.0	92.10	267.90	7,820.8	120.4	-824.5	-290.6	1.93	-1.79	0.74
8,588.0	90.90	268.50	7,818.3	117.5	-918.4	-338.3	1.43	-1.28	0.64
8,683.0	91.10	267.20	7,816.7	113.9	-1,013.4	-387.0	1.38	0.21	-1.37
8,778.0	91.70	266.40	7,814.3	108.6	-1,108.2	-437.2	1.05	0.63	-0.84
8,874.0	91.70	268.90	7,811.5	104.7	-1,204.1	-486.8	2.60	0.00	2.60
8,968.0	89.90	269.60	7,810.2	103.5	-1,298.0	-533.0	2.05	-1.91	0.74
9,063.0	90.50	269.40	7,809.8	102.6	-1,393.0	-579.4	0.67	0.63	-0.21
9,159.0	91.30	269.10	7,808.3	101.4	-1,489.0	-626.6	0.89	0.83	-0.31
9,253.0	92.30	268.80	7,805.4	99.7	-1,582.9	-673.2	1.11	1.06	-0.32
9,348.0	91.30	268.80	7,802.4	97.7	-1,677.9	-720.6	1.05	-1.05	0.00
9,443.0	92.30	268.60	7,799.4	95.5	-1,772.8	-768.1	1.07	1.05	-0.21
9,538.0	90.10	268.80	7,797.4	93.4	-1,867.8	-815.6	2.33	-2.32	0.21
9,634.0	88.30	267.20	7,798.8	90.0	-1,963.7	-864.7	2.51	-1.88	-1.67
9,729.0	90.30	267.10	7,799.9	85.3	-2,058.5	-914.4	2.11	2.11	-0.11
9,824.0	91.00	267.10	7,798.8	80.5	-2,153.4	-964.2	0.74	0.74	0.00
9,919.0	91.30	267.60	7,796.9	76.1	-2,248.3	-1,013.6	0.61	0.32	0.53
10,015.0	91.90	268.10	7,794.3	72.5	-2,344.2	-1,062.9	0.81	0.63	0.52
10,110.0	92.00	267.60	7,791.0	68.9	-2,439.1	-1,111.6	0.54	0.11	-0.53
10,206.0	92.50	266.60	7,787.3	64.1	-2,534.9	-1,161.9	1.16	0.52	-1.04
10,301.0	92.40	267.50	7,783.2	59.2	-2,629.7	-1,211.7	0.95	-0.11	0.95
10,396.0	91.70	268.00	7,779.8	55.5	-2,724.5	-1,260.6	0.91	-0.74	0.53
10,491.0	92.70	267.50	7,776.1	51.7	-2,819.4	-1,309.4	1.18	1.05	-0.53
10,620.0	92.70	268.10	7,770.1	46.8	-2,948.1	-1,375.6	0.46	0.00	0.47
10,715.0	91.70	268.80	7,766.4	44.2	-3,043.0	-1,423.5	1.28	-1.05	0.74
10,810.0	92.60	268.90	7,762.9	42.3	-3,137.9	-1,470.7	0.95	0.95	0.11
10,905.0	91.90	269.20	7,759.1	40.7	-3,232.9	-1,517.7	0.80	-0.74	0.32
10,999.0	90.80	269.60	7,756.9	39.8	-3,326.8	-1,563.7	1.25	-1.17	0.43
11,095.0	90.10	269.70	7,756.2	39.2	-3,422.8	-1,610.4	0.74	-0.73	0.10
11,190.0	90.80	268.80	7,755.4	37.9	-3,517.8	-1,657.1	1.20	0.74	-0.95
11,285.0	91.90	267.00	7,753.2	34.5	-3,612.7	-1,705.8	2.22	1.16	-1.89
11,381.0	91.70	268.10	7,750.2	30.4	-3,708.6	-1,755.4	1.16	-0.21	1.15
11,476.0	90.30	268.90	7,748.5	27.9	-3,803.5	-1,803.2	1.70	-1.47	0.84
11,572.0	91.00	268.20	7,747.4	25.4	-3,899.5	-1,851.5	1.03	0.73	-0.73
11,666.0	91.50	269.50	7,745.4	23.5	-3,993.4	-1,898.3	1.48	0.53	1.38
11,762.0	91.30	269.20	7,743.0	22.5	-4,089.4	-1,945.4	0.38	-0.21	-0.31



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Gobbler 5 B2IL State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	3397 + 20 @ 3417.0usft (Patterson 231)
Site:	Section 5-19S-29E Gobbler 5 B2IL St Com 1H	MD Reference:	3397 + 20 @ 3417.0usft (Patterson 231)
Well:	Gobbler 5 B2IL State Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,858.0	91.00	269.30	7,741.1	21.2	-4,185.4	-1,992.6	0.33	-0.31	0.10
11,952.0	92.00	269.20	7,738.6	20.0	-4,279.3	-2,038.8	1.07	1.06	-0.11
12,047.0	90.70	269.40	7,736.4	18.8	-4,374.3	-2,085.5	1.38	-1.37	0.21
12,142.0	89.70	268.60	7,736.1	17.2	-4,469.3	-2,132.6	1.35	-1.05	-0.84
12,237.0	91.10	267.40	7,735.4	13.8	-4,564.2	-2,181.1	1.94	1.47	-1.26
12,264.0	91.40	267.40	7,734.8	12.6	-4,591.2	-2,195.1	1.11	1.11	0.00
12,320.0	91.40	267.40	7,733.4	10.1	-4,647.1	-2,224.2	0.00	0.00	0.00
12320' MD Projected to Bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,425.0	6,419.0	166.2	91.1	6425' MD Phoenix Gyro
12,320.0	7,733.4	10.1	-4,647.1	12320' MD Projected to Bit



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 3, 2016

Mewbourne Oil
Attention: Regulatory Department
701 S Cecil St
Hobbs, New Mexico 88240

Re: Mewbourne Oil
Gobbler 5 B2IL State Com 1H
Eddy County, NM
API #30-015-42954
Job No. 60251

Dear Regulatory Department;

Phoenix Technology Services, Inc. has filed the Survey Data Certification, Surveys, and Lease Plat for the above referenced well with the State of New Mexico Oil Conservation Division – District 2 via certified mail. A copy of the filing is attached for your records.

Name of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Andy Askew	1H	0	6425	07/27/16	07/27/16	Gyro

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

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 #: 60251

Well Name: Gobbler 5 B2IL State Com 1H

County/State: Eddy/ NM

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-42954

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 (°)
7-27-16	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
7-27-16	6425	1.27	8.63

Projected TD Survey

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

Grid Correction
-0.13

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

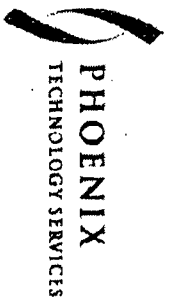
Date:

7/27/16

Print Name: Andy Askew

Signature:

Andy Askew



PHOENIX

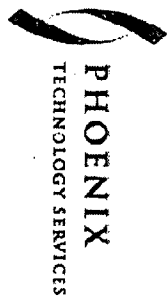
TECHNOLOGY SERVICES

Company: Mewbourne
Well: Gobbler 5 B2L State Com 1H
Location: Eddy Co., NM
Rig: Patterson 231

Job Number: 60251
Grid Corr.: -0.13
Lat: 32.68
Long: -104.08

Date: 07-27-16
Calculation Method: Minimum Curvature
Proposed Azimuth: 24
RKB - MSL in feet: Surface
Tie Into:

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)			
FIELD COPY, NON-DEFINITIVE													
Enter Tie-In Survey on Line 10													
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.25	324.88	100	100.00	0.18	0.18 N	0.13 W	0.22	324.88	0.25	0.25	324.88
	200.00	0.43	70.63	100	200.00	0.48	0.48 N	0.10 E	0.49	12.08	0.55	0.18	-254.25
	300.00	0.65	105.04	100	299.99	0.46	0.46 N	1.00 E	1.10	65.47	0.38	0.22	34.41
	400.00	0.75	79.77	100	399.99	0.43	0.43 N	2.20 E	2.24	78.98	0.32	0.10	-25.27
	500.00	0.78	89.88	100	499.98	0.55	0.55 N	3.52 E	3.56	81.20	0.14	0.03	10.11
	600.00	0.81	78.05	100	599.97	0.69	0.69 N	4.89 E	4.94	81.94	0.17	0.03	-11.83
	700.00	1.50	79.09	100	699.95	1.09	1.09 N	6.87 E	6.96	81.01	0.69	0.69	1.04
	800.00	1.63	85.34	100	799.91	1.45	1.45 N	9.57 E	9.68	81.38	0.21	0.13	6.25
	900.00	1.49	77.75	100	899.87	1.84	1.84 N	12.26 E	12.40	81.46	0.25	-0.14	-7.59
	1000.00	1.37	78.51	100	999.84	2.36	2.36 N	14.70 E	14.89	80.90	0.12	-0.12	0.76
	1100.00	1.25	58.76	100	1099.82	3.16	3.16 N	16.81 E	17.10	79.35	0.46	-0.12	-19.75
	1200.00	1.52	53.93	100	1199.79	4.51	4.51 N	18.81 E	19.34	76.53	0.29	0.27	-4.83
	1300.00	1.76	51.03	100	1299.75	6.25	6.25 N	21.08 E	21.99	73.48	0.25	0.24	-2.90
	1400.00	1.74	51.60	100	1399.70	8.16	8.16 N	23.46 E	24.84	70.82	0.03	-0.02	0.57
	1500.00	2.56	48.46	100	1499.63	10.59	10.59 N	26.32 E	28.37	68.09	0.83	0.82	-3.14
	1600.00	2.66	40.68	100	1599.52	13.83	13.83 N	29.51 E	32.59	64.89	0.37	0.10	-7.78
	1700.00	2.91	41.19	100	1699.41	17.50	17.50 N	32.69 E	37.08	61.84	0.25	0.25	0.51
	1800.00	3.17	36.04	100	1799.27	21.64	21.64 N	35.99 E	42.00	58.98	0.38	0.26	-5.15
	1900.00	3.40	52.51	100	1899.10	25.68	25.68 N	39.97 E	47.51	57.28	0.97	0.23	16.47
	2000.00	3.28	42.69	100	1998.93	29.59	29.59 N	44.26 E	53.24	56.24	0.58	-0.12	-9.82
	2100.00	3.80	19.16	100	2098.75	34.82	34.82 N	47.29 E	58.73	53.63	1.53	0.52	-23.53
	2200.00	3.49	20.54	100	2198.55	40.80	40.80 N	49.45 E	64.11	50.47	0.32	-0.31	1.38
	2300.00	3.56	25.29	100	2298.36	46.46	46.46 N	51.84 E	69.61	48.13	0.30	0.07	4.75
	2400.00	3.66	42.81	100	2398.16	51.61	51.61 N	55.33 E	75.67	46.99	1.10	0.10	17.52
	2500.00	3.46	69.34	100	2497.98	55.02	55.02 N	60.33 E	81.65	47.64	1.64	-0.20	26.53
	2600.00	3.31	26.41	100	2597.82	58.67	58.67 N	64.44 E	87.14	47.68	2.48	-0.15	-42.93
	2700.00	3.26	16.64	100	2697.65	63.98	63.98 N	66.53 E	92.30	46.12	0.56	-0.05	-9.77



PHOENIX
TECHNOLOGY SERVICES

Company:	Mewbourne	Job Number:	60251	Calculation Method:	Minimum Curvature
Well:	Gobbler 5 B2L State Com 1H	Grid Corr.:	-0.13	Proposed Azimuth:	
Location:	Eddy Co., NM	Lat:	32.68	RKB - MSL in feet:	24
Rig:	Patterson 231	Long:	-104.08	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)	E/W (ft)	Closure Distance (ft)	Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	2800.00	3.47	355.95	100	2797.48	69.72	69.72 N	67.13 E	96.79	43.92	1.23	0.21	339.31
	2900.00	2.94	12.62	100	2897.33	75.24	75.24 N	67.48 E	101.07	41.89	1.07	-0.53	-343.33
	3000.00	3.65	60.56	100	2997.18	79.31	79.31 N	70.81 E	106.32	41.76	2.75	0.71	47.94
	3100.00	3.72	48.53	100	3096.98	83.02	83.02 N	76.02 E	112.57	42.48	0.77	0.07	-12.03
	3200.00	4.11	46.88	100	3196.74	87.62	87.62 N	81.06 E	119.37	42.77	0.41	0.39	-1.65
	3300.00	4.07	34.65	100	3296.49	92.99	92.99 N	85.70 E	126.46	42.66	0.87	-0.04	-12.23
	3400.00	3.52	81.32	100	3396.29	96.37	96.37 N	90.75 E	132.38	43.28	3.05	-0.55	46.67
	3500.00	3.50	250.13	100	3496.23	95.80	95.80 N	90.91 E	132.07	43.50	6.99	-0.02	168.81
	3600.00	3.11	355.66	100	3596.13	97.47	97.47 N	87.84 E	131.21	42.03	5.27	-0.39	105.53
	3700.00	3.16	25.43	100	3695.99	102.66	102.66 N	88.82 E	135.75	40.86	1.61	0.05	-330.23
	3800.00	3.57	16.32	100	3795.82	108.14	108.14 N	90.87 E	141.25	40.04	0.67	0.41	-9.11
	3900.00	4.72	20.71	100	3895.56	114.98	114.98 N	93.20 E	148.01	39.03	1.19	1.15	4.39
	4000.00	6.33	12.99	100	3995.09	124.20	124.20 N	95.90 E	156.91	37.67	1.77	1.61	-7.72
	4100.00	3.76	21.98	100	4094.69	132.61	132.61 N	98.36 E	165.11	36.57	2.68	-2.57	8.99
	4200.00	2.31	4.91	100	4194.55	137.66	137.66 N	99.76 E	170.01	35.93	1.69	-1.45	-17.07
	4300.00	0.20	314.60	100	4294.52	139.79	139.79 N	99.81 E	171.77	35.53	2.19	-2.11	309.69
	4400.00	0.33	179.56	100	4394.52	139.62	139.62 N	99.69 E	171.56	35.53	0.49	0.13	-135.04
	4500.00	0.63	167.41	100	4494.52	138.80	138.80 N	99.81 E	170.96	35.72	0.32	0.30	-12.15
	4600.00	0.46	117.39	100	4594.52	138.08	138.08 N	100.29 E	170.66	35.99	0.49	-0.17	-50.02
	4700.00	0.48	159.38	100	4694.51	137.50	137.50 N	100.79 E	170.49	36.24	0.34	0.02	41.99
	4800.00	0.44	269.17	100	4794.51	137.10	137.10 N	100.56 E	170.03	36.26	0.75	-0.04	109.79
	4900.00	0.59	275.42	100	4894.51	137.15	137.15 N	99.66 E	169.53	36.00	0.16	0.15	6.25
	5000.00	0.70	287.56	100	4994.50	137.38	137.38 N	98.57 E	169.08	35.66	0.17	0.11	12.14
	5100.00	0.97	294.11	100	5094.49	137.91	137.91 N	97.21 E	168.73	35.18	0.29	0.27	6.55
	5200.00	1.11	289.01	100	5194.47	138.57	138.57 N	95.52 E	168.30	34.58	0.17	0.14	-5.10
	5300.00	1.16	300.34	100	5294.45	139.40	139.40 N	93.73 E	167.98	33.92	0.23	0.05	11.33
	5400.00	1.26	324.98	100	5394.43	140.81	140.81 N	92.23 E	168.32	33.22	0.53	0.10	24.64
	5500.00	0.64	88.40	100	5494.42	141.73	141.73 N	92.16 E	169.05	33.03	1.70	-0.62	-236.58
	5600.00	1.67	344.49	100	5594.41	143.15	143.15 N	92.32 E	170.34	32.82	1.93	1.03	256.09
	5700.00	1.49	29.36	100	5694.38	145.68	145.68 N	92.57 E	172.61	32.43	1.22	-0.18	-315.13



PHOENIX

TECHNOLOGY SERVICES

Company: Mewbourne
Well: Gobbler 5 B2IL State Com 1H
Location: Eddy Co, NM
Rig: Patterson 231

Job Number: 60251
Grid Corr.: -0.13
Lat: 32.68
Long: -104.08

Calculation Method: Minimum Curvature
Proposed Azimuth: 24
RKB - MSL in feet: Surface
Tie Into:

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')
	5800.00	1.05	35.91	100	5794.35	147.56	147.56 N	93.75 E	174.82	32.43	0.46	-0.44	6.55
	5900.00	2.54	324.75	100	5894.31	150.11	150.11 N	93.00 E	176.59	31.78	2.41	1.49	288.84
	6000.00	2.31	350.06	100	5994.22	153.90	153.90 N	91.38 E	178.99	30.70	1.09	-0.23	25.31
	6100.00	1.47	24.04	100	6094.17	157.06	157.06 N	91.55 E	181.80	30.24	1.37	-0.84	-326.02
	6200.00	1.39	350.61	100	6194.14	159.43	159.43 N	91.88 E	184.01	29.95	0.83	-0.08	326.57
	6300.00	2.31	349.43	100	6294.09	162.61	162.61 N	91.31 E	186.49	29.32	0.92	0.92	-1.18
	6400.00	1.23	3.63	100	6394.04	165.66	165.66 N	91.01 E	189.01	28.78	1.16	-1.08	-345.80
	6425.00	1.27	8.63	25	6419.03	166.20	166.20 N	91.07 E	189.52	28.72	0.46	0.16	20.00