

Results of Directional Survey

API number:	30-025-40884		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	MERIT 6 EH STATE COM # 1H

surface	ULSTR:	E	06	T 19S	R 35E
				1325 FNL	115 FWL

BH Loc	ULSTR:	H	06	T 19S	R 35E
15350	MD	10647.0	TVD	2274 FNL	358 FEL
					4922 FWL

Top Perf/OH	ULSTR:	E	06	T 19S	R 35E
11103	MD	10708.1	TVD	1449 FNL	762 FWL

Bot Perf/OH	ULSTR:	H	06	T 19S	R 35E
15319	MD	10645.6	TVD	2267 FNL	388 FSL
					4892 FWL

	MD	N/S	E/W	VD
	11128	-131.52	670.43	10707.72
TOP PERFS/OH	11103	-123.84	646.64	10708.13
	11191	-150.88	730.37	10706.68
	15289	-936.14	4747.53	10644.22
BOT PERFS/OH	15319	-942.37	4776.85	10645.58
	15350	-948.81	4807.14	10646.98

NEXT TO LAST	15289	-936.14	4747.53	10644.22
LAST READING	15350	-948.81	4807.14	10646.98
TD	15350	-948.81	4807.14	10646.98

Surface Location	1325	FN	115	FW
Projected BHL	2274	FN	4922	FW
Location of				
Top Perfs/OH	1449	FN	762	FW
Bottom Perfs/OH	2267	FN	4892	FW

SUMMARY of Subsurface Locations

Surface Location	E-06-19S-35E	1325 FN	115 FW	Vert. Depth
Top Perfs/OH	E-06-19S-35E	1449 FN	762 FW	10708.13
Bottom Perfs/OH	H-06-19S-35E	2267 FN	4892 FW	10645.58
Projected TD	H-06-19S-35E	2274 FN	4922 FW	10646.98

SEP 19 2013

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE MERIT 6 EH STATE COM 001H
COUNTY LEA

047-0105

STATE OF NEW MEXICO
DEVIATION REPORT

257	0.50
1,132	0.75
1,618	0.70
1,865	0.55
2,271	1.50
2,715	1.40
3,097	3.40
3,350	3.70
3,461	2.80
3,957	0.80
4,243	0.90
4,688	1.20
5,017	1.50
5,507	1.90
5,766	1.40
6,243	0.30
6,561	1.80
6,942	2.00
7,227	1.40
7,575	2.10
7,797	2.00
8,051	1.10
8,303	1.40
8,843	2.50
9,033	2.30
9,327	2.00
9,571	1.20
9,856	1.40

HOBBS OCD

JUL 12 2013

RECEIVED

BY: Steve Moore

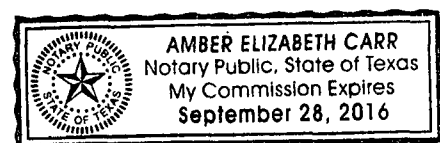
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

5/31/13, by

Amber Elizabeth Carr
Notary Public for Midland County, Texas
My Commission Expires:



Company: MEWBOURNE OIL COMPANY
Lease/Well: Merit 6 EH State Com/No. 001H



Rig Name: PATTERSON 47
State/County: NEW MEXICO/EDDY
Latitude: 32.69, Longitude: -103.50
GRID North is 0.45 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB= 19'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: e-line gyro-de_01.ut

Minimum Curvature Method

Report Date/Time: 5/29/2013 / 10:37

Vaughn Energy Services

Conway, Arkansas

501-730-0602

Survey Engineer: Chris Ford

Merit 6 EH State No. 001H / API 30-025-40884

RECEIVED

JUL 12 2013

HOBBS OCD

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.50	140.13	100.00	-0.34	0.28	-0.34	0.44	140.13	0.50
200.00	0.38	125.69	200.00	-0.87	0.84	-0.87	1.21	136.17	0.16
300.00	0.42	121.93	299.99	-1.26	1.42	-1.26	1.90	131.59	0.05
400.00	0.35	102.84	399.99	-1.52	2.03	-1.52	2.54	126.85	0.15
500.00	0.31	91.01	499.99	-1.60	2.60	-1.60	3.05	121.51	0.08
600.00	0.27	75.53	599.99	-1.54	3.10	-1.54	3.46	116.44	0.09
700.00	0.34	84.76	699.99	-1.46	3.62	-1.46	3.91	111.91	0.09
800.00	0.25	109.23	799.99	-1.50	4.12	-1.50	4.39	110.01	0.15
900.00	0.15	107.84	899.98	-1.61	4.45	-1.61	4.73	109.91	0.10
1000.00	0.17	107.28	999.98	-1.70	4.72	-1.70	5.01	109.78	0.03
1100.00	0.13	107.10	1099.98	-1.78	4.98	-1.78	5.28	109.65	0.04
1200.00	0.11	118.42	1199.98	-1.86	5.17	-1.86	5.50	109.75	0.03
1300.00	0.19	103.44	1299.98	-1.94	5.42	-1.94	5.76	109.72	0.09
1400.00	0.15	107.82	1399.98	-2.02	5.71	-2.02	6.06	109.50	0.04
1500.00	0.27	110.68	1499.98	-2.15	6.06	-2.15	6.42	109.51	0.12
1600.00	0.23	117.17	1599.98	-2.32	6.45	-2.32	6.86	109.77	0.05
1700.00	0.38	139.16	1699.98	-2.66	6.85	-2.66	7.34	111.24	0.19
1800.00	0.35	151.09	1799.98	-3.18	7.21	-3.18	7.88	113.80	0.08

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.64	153.73	1899.97	-3.95	7.61	-3.95	8.57	117.44	0.28
2000.00	0.76	145.71	1999.97	-4.99	8.22	-4.99	9.62	121.26	0.16
2100.00	1.19	120.07	2099.95	-6.06	9.50	-6.06	11.27	122.54	0.61
2200.00	0.94	99.13	2199.94	-6.71	11.21	-6.71	13.07	120.92	0.46
2300.00	1.00	99.11	2299.92	-6.98	12.88	-6.98	14.65	118.47	0.06
2400.00	1.25	94.34	2399.90	-7.20	14.82	-7.20	16.48	115.91	0.27
2500.00	1.35	99.30	2499.88	-7.47	17.07	-7.47	18.64	113.64	0.15
2600.00	1.25	100.66	2599.85	-7.87	19.31	-7.87	20.85	112.16	0.10
2700.00	1.21	116.73	2699.83	-8.54	21.33	-8.54	22.98	111.83	0.35
2800.00	1.59	105.72	2799.80	-9.39	23.61	-9.39	25.41	111.70	0.47
2900.00	2.65	97.92	2899.73	-10.09	27.23	-10.09	29.04	110.33	1.09
3000.00	2.71	81.18	2999.62	-10.05	31.85	-10.05	33.40	107.50	0.78
3100.00	3.04	78.36	3099.49	-9.15	36.79	-9.15	37.91	103.96	0.36
3200.00	3.15	70.75	3199.35	-7.71	41.98	-7.71	42.69	100.40	0.43
3300.00	3.19	68.10	3299.20	-5.76	47.16	-5.76	47.51	96.96	0.15
3400.00	3.08	68.77	3399.05	-3.75	52.25	-3.75	52.39	94.10	0.12
3500.00	2.71	74.80	3498.92	-2.15	57.05	-2.15	57.09	92.16	0.48
3600.00	1.85	79.37	3598.84	-1.23	60.92	-1.23	60.93	91.16	0.88
3700.00	1.20	93.21	3698.80	-1.00	63.55	-1.00	63.55	90.90	0.74
3800.00	0.95	91.98	3798.78	-1.08	65.42	-1.08	65.43	90.95	0.25
3900.00	0.51	80.27	3898.78	-1.04	66.69	-1.04	66.70	90.89	0.46
4000.00	0.71	82.66	3998.77	-0.88	67.74	-0.88	67.75	90.75	0.19
4100.00	0.59	85.42	4098.76	-0.76	68.87	-0.76	68.87	90.63	0.12
4200.00	0.70	78.72	4198.76	-0.60	69.98	-0.60	69.98	90.49	0.13
4300.00	0.61	76.07	4298.75	-0.35	71.09	-0.35	71.09	90.29	0.09
4400.00	0.80	85.71	4398.74	-0.17	72.31	-0.17	72.31	90.14	0.22
4500.00	0.62	109.10	4498.74	-0.30	73.52	-0.30	73.52	90.23	0.34
4600.00	0.90	111.26	4598.73	-0.76	74.76	-0.76	74.77	90.58	0.28
4700.00	1.18	109.10	4698.71	-1.38	76.47	-1.38	76.48	91.04	0.28
4800.00	1.24	119.97	4798.69	-2.26	78.38	-2.26	78.41	91.65	0.24
4900.00	1.56	129.75	4898.66	-3.67	80.36	-3.67	80.45	92.62	0.40
5000.00	1.56	125.79	4998.62	-5.34	82.52	-5.34	82.69	93.70	0.11
5100.00	1.31	121.02	5098.59	-6.73	84.60	-6.73	84.87	94.55	0.27
5200.00	1.45	122.54	5198.56	-8.00	86.65	-8.00	87.02	95.27	0.14
5300.00	1.34	128.33	5298.53	-9.40	88.63	-9.40	89.13	96.06	0.18
5400.00	1.33	127.14	5398.50	-10.83	90.48	-10.83	91.12	96.83	0.03
5500.00	1.55	131.19	5498.47	-12.43	92.42	-12.43	93.26	97.66	0.24
5600.00	1.63	134.95	5598.43	-14.33	94.45	-14.33	95.53	98.62	0.13
5700.00	1.40	137.30	5698.40	-16.23	96.29	-16.23	97.65	99.57	0.24

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	1.25	139.55	5798.37	-17.96	97.83	-17.96	99.47	100.41	0.16
5900.00	0.93	133.82	5898.35	-19.36	99.13	-19.36	101.00	101.05	0.33
6000.00	0.77	126.91	5998.34	-20.32	100.25	-20.32	102.29	101.46	0.20
6100.00	0.28	145.02	6098.34	-20.93	100.93	-20.93	103.07	101.72	0.50
6200.00	0.02	36.91	6198.34	-21.12	101.08	-21.12	103.26	101.80	0.29
6300.00	0.16	125.64	6298.34	-21.18	101.21	-21.18	103.40	101.82	0.16
6400.00	0.07	346.03	6398.34	-21.20	101.30	-21.20	103.50	101.82	0.22
6500.00	0.83	307.48	6498.33	-20.70	100.72	-20.70	102.82	101.61	0.77
6600.00	1.32	299.44	6598.32	-19.70	99.14	-19.70	101.08	101.24	0.51
6700.00	1.50	309.66	6698.29	-18.29	97.13	-18.29	98.84	100.67	0.31
6800.00	1.64	314.01	6798.25	-16.46	95.09	-16.46	96.51	99.82	0.19
6900.00	1.60	309.14	6898.21	-14.59	92.98	-14.59	94.12	98.92	0.14
7000.00	1.60	305.63	6998.17	-12.89	90.76	-12.89	91.67	98.08	0.10
7100.00	1.61	304.64	7098.13	-11.28	88.48	-11.28	89.19	97.27	0.03
7200.00	1.13	303.54	7198.10	-9.94	86.50	-9.94	87.07	96.56	0.48
7300.00	1.04	315.64	7298.08	-8.75	85.05	-8.75	85.50	95.87	0.24
7400.00	1.12	304.07	7398.07	-7.55	83.60	-7.55	83.95	95.16	0.23
7500.00	1.00	312.77	7498.05	-6.41	82.15	-6.41	82.40	94.46	0.20
7600.00	1.93	309.59	7598.01	-4.74	80.21	-4.74	80.35	93.38	0.93
7700.00	1.99	337.42	7697.96	-2.07	78.25	-2.07	78.28	91.51	0.94
7800.00	1.94	333.99	7797.90	1.06	76.84	1.06	76.85	89.21	0.13
7900.00	1.56	335.24	7897.85	3.82	75.52	3.82	75.62	87.10	0.38
8000.00	0.99	321.55	7997.83	5.74	74.42	5.74	74.64	85.59	0.65
8100.00	0.98	317.91	8097.81	7.05	73.31	7.05	73.64	84.51	0.06
8200.00	1.05	325.41	8197.80	8.44	72.21	8.44	72.70	83.34	0.15
8300.00	1.15	325.00	8297.78	10.01	71.12	10.01	71.82	81.99	0.09
8400.00	1.19	327.24	8397.76	11.71	69.98	11.71	70.95	80.50	0.07
8500.00	1.34	358.30	8497.73	13.76	69.38	13.76	70.73	78.79	0.69
8600.00	1.40	349.97	8597.71	16.13	69.13	16.13	70.99	76.86	0.21
8700.00	1.45	342.50	8697.67	18.54	68.54	18.54	71.00	74.86	0.19
8800.00	2.20	328.55	8797.62	21.39	67.16	21.39	70.48	72.33	0.87
8900.00	2.31	313.13	8897.55	24.41	64.68	24.41	69.14	69.33	0.61
9000.00	2.08	307.88	8997.47	26.90	61.79	26.90	67.39	66.48	0.31
9100.00	2.06	302.09	9097.41	28.96	58.83	28.96	65.58	63.79	0.21
9200.00	2.17	296.99	9197.34	30.78	55.62	30.78	63.57	61.04	0.22
9300.00	1.78	298.52	9297.28	32.38	52.57	32.38	61.74	58.37	0.40
9400.00	1.83	299.47	9397.23	33.91	49.82	33.91	60.26	55.76	0.06
9500.00	1.65	305.64	9497.19	35.53	47.26	35.53	59.12	53.06	0.26
9600.00	1.77	308.48	9597.14	37.33	44.88	37.33	58.37	50.24	0.14

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
9700.00	2.04	310.50	9697.09	39.45	42.31	39.45	57.85	47.01	0.28
9800.00	1.84	312.74	9797.03	41.69	39.78	41.69	57.63	43.66	0.21
9900.00	1.30	325.34	9896.99	43.72	37.96	43.72	57.90	40.96	0.63
10000.00	1.15	300.31	9996.97	45.16	36.44	45.16	58.03	38.90	0.55
10100.00	0.86	301.73	10096.95	46.06	34.94	46.06	57.81	37.18	0.29
10121.00	0.66	301.77	10117.95	46.21	34.70	46.21	57.79	36.91	0.95



Mewbourne Oil Company

Lea County, New Mexico

Merit 6 EH State Com

Merit 6 EH State Com # 1H

OH

Design: OH

Standard Survey Report

10 June, 2013



Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Merit 6 EH State Com # 1H
Project:	Lea County, New Mexico	TVD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Site:	Merit 6 EH State Com	MD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Well:	Merit 6 EH State Com # 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Project	Lea 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		Merit 6 EH State Com				
Site Position:		Northing:	616,901.02 usft	Latitude:	32° 41' 35.592 N	
From:	Map	Easting:	755,028.94 usft	Longitude:	103° 30' 15.696 W	
Position Uncertainty:		0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.45 °

Well	Merit 6 EH State Com # 1H					
Well Position	+N/-S	0.00 usft	Northing:	616,901.02 usft	Latitude:	32° 41' 35.592 N
	+E/-W	0.00 usft	Easting:	755,028.94 usft	Longitude:	103° 30' 15.696 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,949.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/10/2013	7.34	60.61	48,745

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	101.37	

Survey Program	Date 6/10/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	10,121.00	Survey #1 (OH)	GyroFlex	
10,172.00	15,350.00	Survey #2 (OH)	MWD	MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.50	140.13	100.00	-0.33	0.28	0.34	0.50	0.50	0.00
200.00	0.38	125.69	200.00	-0.86	0.83	0.98	0.16	-0.12	-14.44
300.00	0.42	121.93	299.99	-1.25	1.41	1.63	0.05	0.04	-3.76
400.00	0.35	102.84	399.99	-1.51	2.02	2.28	0.15	-0.07	-19.09
500.00	0.31	91.01	499.99	-1.58	2.59	2.85	0.08	-0.04	-11.83
600.00	0.27	75.53	599.99	-1.53	3.08	3.33	0.09	-0.04	-15.48
700.00	0.34	84.76	699.99	-1.44	3.61	3.82	0.09	0.07	9.23
800.00	0.25	109.23	799.99	-1.49	4.11	4.32	0.15	-0.09	24.47
900.00	0.15	107.84	899.98	-1.60	4.44	4.67	0.10	-0.10	-1.39



Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Merit 6 EH State Com # 1H
Project:	Lea County, New Mexico	TVD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Site:	Merit 6 EH State Com	MD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Well:	Merit 6 EH State Com # 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,000.00	0.17	107.28	999.98	-1.69	4.71	4.95	0.02	0.02	-0.56
1,100.00	0.13	107.10	1,099.98	-1.76	4.96	5.21	0.04	-0.04	-0.18
1,200.00	0.11	118.42	1,199.98	-1.84	5.15	5.41	0.03	-0.02	11.32
1,300.00	0.19	103.44	1,299.98	-1.93	5.40	5.67	0.09	0.08	-14.98
1,400.00	0.15	107.82	1,399.98	-2.00	5.68	5.97	0.04	-0.04	4.38
1,500.00	0.27	110.68	1,499.98	-2.13	6.03	6.33	0.12	0.12	2.86
1,600.00	0.23	117.17	1,599.98	-2.30	6.43	6.75	0.05	-0.04	6.49
1,700.00	0.38	139.16	1,699.98	-2.65	6.82	7.21	0.19	0.15	21.99
1,800.00	0.35	151.09	1,799.98	-3.16	7.19	7.67	0.08	-0.03	11.93
1,900.00	0.64	153.73	1,899.97	-3.93	7.58	8.21	0.29	0.29	2.64
2,000.00	0.76	145.71	1,999.97	-4.98	8.20	9.02	0.15	0.12	-8.02
2,100.00	1.19	120.07	2,099.95	-6.05	9.47	10.48	0.60	0.43	-25.64
2,200.00	0.94	99.13	2,199.94	-6.70	11.18	12.28	0.46	-0.25	-20.94
2,300.00	1.00	99.11	2,299.92	-6.97	12.85	13.97	0.06	0.06	-0.02
2,400.00	1.25	94.34	2,399.90	-7.19	14.80	15.93	0.27	0.25	-4.77
2,500.00	1.35	99.30	2,499.88	-7.46	17.05	18.19	0.15	0.10	4.96
2,600.00	1.25	100.66	2,599.85	-7.85	19.29	20.46	0.10	-0.10	1.36
2,700.00	1.21	116.73	2,699.83	-8.53	21.30	22.57	0.35	-0.04	16.07
2,800.00	1.59	105.72	2,799.80	-9.38	23.58	24.97	0.46	0.38	-11.01
2,900.00	2.65	97.92	2,899.73	-10.08	27.21	28.66	1.10	1.06	-7.80
3,000.00	2.71	81.18	2,999.62	-10.03	31.83	33.18	0.78	0.06	-16.74
3,100.00	3.04	78.36	3,099.49	-9.13	36.76	37.84	0.36	0.33	-2.82
3,200.00	3.15	70.75	3,199.35	-7.69	41.96	42.65	0.42	0.11	-7.61
3,300.00	3.19	68.10	3,299.20	-5.75	47.13	47.34	0.15	0.04	-2.65
3,400.00	3.08	68.77	3,399.05	-3.74	52.22	51.93	0.12	-0.11	0.67
3,500.00	2.71	74.80	3,498.92	-2.15	57.00	56.31	0.48	-0.37	6.03
3,600.00	1.85	79.37	3,598.84	-1.23	60.87	59.92	0.88	-0.86	4.57
3,700.00	1.20	93.21	3,698.80	-0.99	63.50	62.45	0.74	-0.65	13.84
3,800.00	0.95	91.98	3,798.79	-1.08	65.38	64.31	0.25	-0.25	-1.23
3,900.00	0.51	80.27	3,898.78	-1.03	66.64	65.54	0.46	-0.44	-11.71
4,000.00	0.71	82.66	3,998.77	-0.88	67.70	66.54	0.20	0.20	2.39
4,100.00	0.59	85.42	4,098.76	-0.76	68.82	67.62	0.12	-0.12	2.76
4,200.00	0.70	78.72	4,198.76	-0.60	69.94	68.68	0.13	0.11	-6.70
4,300.00	0.61	76.07	4,298.75	-0.35	71.05	69.73	0.09	-0.09	-2.65
4,400.00	0.80	85.71	4,398.74	-0.17	72.27	70.88	0.22	0.19	9.64
4,500.00	0.62	109.10	4,498.74	-0.29	73.47	72.09	0.34	-0.18	23.39
4,600.00	0.90	111.26	4,598.73	-0.75	74.72	73.40	0.28	0.28	2.16
4,700.00	1.18	109.10	4,698.71	-1.38	76.42	75.19	0.28	0.28	-2.16
4,800.00	1.24	119.97	4,798.69	-2.25	78.33	77.24	0.24	0.06	10.87
4,900.00	1.56	129.75	4,898.66	-3.66	80.32	79.46	0.40	0.32	9.78
5,000.00	1.56	125.79	4,998.62	-5.33	82.47	81.90	0.11	0.00	-3.96
5,100.00	1.31	121.02	5,098.59	-6.72	84.55	84.21	0.28	-0.25	-4.77
5,200.00	1.45	122.54	5,198.56	-7.98	86.60	86.47	0.14	0.14	1.52



Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Merit 6 EH State Com # 1H
Project:	Lea County, New Mexico	TVD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Site:	Merit 6 EH State Com	MD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Well:	Merit 6 EH State Com # 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	1.34	128.33	5,298.53	-9.39	88.58	88.69	0.18	-0.11	5.79
5,400.00	1.33	127.14	5,398.51	-10.82	90.42	90.78	0.03	-0.01	-1.19
5,500.00	1.55	131.19	5,498.47	-12.41	92.36	93.00	0.24	0.22	4.05
5,600.00	1.63	134.95	5,598.44	-14.30	94.39	95.36	0.13	0.08	3.76
5,700.00	1.40	137.30	5,698.40	-16.21	96.22	97.53	0.24	-0.23	2.35
5,800.00	1.25	139.55	5,798.37	-17.93	97.76	99.38	0.16	-0.15	2.25
5,900.00	0.93	133.82	5,898.36	-19.33	99.05	100.92	0.34	-0.32	-5.73
6,000.00	0.77	126.91	5,998.34	-20.29	100.18	102.21	0.19	-0.16	-6.91
6,100.00	0.28	145.02	6,098.34	-20.89	100.85	102.99	0.51	-0.49	18.11
6,200.00	0.02	36.91	6,198.34	-21.08	101.00	103.18	0.29	-0.26	-108.11
6,300.00	0.16	125.64	6,298.34	-21.15	101.13	103.31	0.16	0.14	88.73
6,400.00	0.07	346.03	6,398.34	-21.17	101.23	103.41	0.22	-0.09	-139.61
6,500.00	0.83	307.48	6,498.34	-20.67	100.64	102.74	0.78	0.76	-38.55
6,600.00	1.32	299.44	6,598.32	-19.66	99.06	100.99	0.51	0.49	-8.04
6,700.00	1.50	309.66	6,698.29	-18.26	97.05	98.74	0.31	0.18	10.22
6,800.00	1.64	314.01	6,798.25	-16.43	95.01	96.39	0.18	0.14	4.35
6,900.00	1.60	309.14	6,898.21	-14.56	92.90	93.95	0.14	-0.04	-4.87
7,000.00	1.60	305.63	6,998.17	-12.86	90.68	91.44	0.10	0.00	-3.51
7,100.00	1.61	304.64	7,098.13	-11.25	88.39	88.88	0.03	0.01	-0.99
7,200.00	1.13	303.54	7,198.10	-9.91	86.41	86.67	0.48	-0.48	-1.10
7,300.00	1.04	315.64	7,298.09	-8.71	84.96	85.01	0.25	-0.09	12.10
7,400.00	1.12	304.07	7,398.07	-7.52	83.51	83.36	0.23	0.08	-11.57
7,500.00	1.00	312.77	7,498.05	-6.38	82.06	81.71	0.20	-0.12	8.70
7,600.00	1.93	309.59	7,598.02	-4.71	80.13	79.48	0.93	0.93	-3.18
7,700.00	1.99	337.42	7,697.96	-2.04	78.16	77.03	0.94	0.06	27.83
7,800.00	1.94	333.99	7,797.90	1.09	76.75	75.03	0.13	-0.05	-3.43
7,900.00	1.56	335.24	7,897.85	3.85	75.44	73.20	0.38	-0.38	1.25
8,000.00	0.99	321.55	7,997.83	5.76	74.33	71.74	0.64	-0.57	-13.69
8,100.00	0.98	317.91	8,097.82	7.07	73.22	70.39	0.06	-0.01	-3.64
8,200.00	1.05	325.41	8,197.80	8.46	72.13	69.05	0.15	0.07	7.50
8,300.00	1.15	325.00	8,297.78	10.04	71.03	67.66	0.10	0.10	-0.41
8,400.00	1.19	327.24	8,397.76	11.73	69.90	66.21	0.06	0.04	2.24
8,500.00	1.34	358.30	8,497.74	13.77	69.30	65.22	0.69	0.15	31.06
8,600.00	1.40	349.97	8,597.71	16.14	69.05	64.51	0.21	0.06	-8.33
8,700.00	1.45	342.50	8,697.68	18.55	68.46	63.46	0.19	0.05	-7.47
8,800.00	2.20	328.55	8,797.63	21.40	67.08	61.54	0.87	0.75	-13.95
8,900.00	2.31	313.13	8,897.55	24.41	64.60	58.52	0.61	0.11	-15.42
9,000.00	2.08	307.88	8,997.48	26.91	61.70	55.19	0.31	-0.23	-5.25
9,100.00	2.06	302.09	9,097.41	28.97	58.75	51.88	0.21	-0.02	-5.79
9,200.00	2.17	296.99	9,197.34	30.79	55.54	48.38	0.22	0.11	-5.10
9,300.00	1.78	298.52	9,297.28	32.39	52.48	45.07	0.39	-0.39	1.53
9,400.00	1.83	299.47	9,397.23	33.92	49.73	42.07	0.06	0.05	0.95
9,500.00	1.65	305.64	9,497.19	35.54	47.17	39.24	0.26	-0.18	6.17



Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Merit 6 EH State Com # 1H
Project:	Lea County, New Mexico	TVD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Site:	Merit 6 EH State Com	MD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Well:	Merit 6 EH State Com # 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,600.00	1.77	308.48	9,597.14	37.34	44.79	36.55	0.15	0.12	2.84
9,700.00	2.04	310.50	9,697.09	39.46	42.23	33.62	0.28	0.27	2.02
9,800.00	1.84	312.74	9,797.03	41.70	39.70	30.69	0.21	-0.20	2.24
9,900.00	1.30	325.34	9,896.99	43.73	37.87	28.51	0.64	-0.54	12.60
10,000.00	1.15	300.31	9,996.97	45.16	36.36	26.74	0.55	-0.15	-25.03
10,100.00	0.86	301.73	10,096.96	46.07	34.86	25.09	0.29	-0.29	1.42
10,121.00	0.66	301.77	10,117.95	46.21	34.62	24.83	0.95	-0.95	0.19
Gyro Tie In: 10121.00' MD / 10117.95' TVD									
10,172.00	3.50	136.80	10,168.93	45.23	35.43	25.82	8.12	5.57	-323.47
First Stryker MWD: 10172.00' MD / 10168.93' TVD									
10,204.00	7.90	122.60	10,200.76	43.33	37.96	28.67	14.34	13.75	-44.37
10,236.00	12.70	110.30	10,232.24	40.93	43.11	34.20	16.42	15.00	-38.44
10,268.00	17.00	109.40	10,263.16	38.15	50.83	42.31	13.46	13.44	-2.81
10,299.00	20.00	109.40	10,292.56	34.88	60.10	52.05	9.68	9.68	0.00
10,331.00	22.80	109.20	10,322.35	31.03	71.12	63.61	8.75	8.75	-0.62
10,363.00	24.60	110.60	10,351.65	26.64	83.21	76.33	5.89	5.62	4.37
10,394.00	25.00	110.30	10,379.79	22.10	95.40	89.17	1.35	1.29	-0.97
10,426.00	26.60	108.20	10,408.60	17.52	108.55	102.96	5.76	5.00	-6.56
10,458.00	29.20	102.90	10,436.88	13.54	122.97	117.88	11.22	8.12	-16.56
10,490.00	33.10	101.10	10,464.27	10.11	139.16	134.43	12.53	12.19	-5.62
10,521.00	35.90	100.40	10,489.81	6.84	156.41	151.99	9.12	9.03	-2.26
10,553.00	38.40	101.00	10,515.31	3.25	175.39	171.31	7.89	7.81	1.87
10,585.00	41.90	102.40	10,539.77	-0.94	195.59	191.94	11.29	10.94	4.37
10,617.00	46.00	102.40	10,562.80	-5.71	217.28	214.14	12.81	12.81	0.00
10,648.00	49.60	103.10	10,583.62	-10.78	239.67	237.09	11.73	11.61	2.26
10,680.00	52.10	102.70	10,603.83	-16.32	263.86	261.90	7.87	7.81	-1.25
10,712.00	54.80	101.30	10,622.88	-21.66	289.00	287.60	9.14	8.44	-4.37
10,743.00	58.60	102.20	10,639.90	-26.94	314.36	313.50	12.50	12.26	2.90
10,773.00	62.10	102.00	10,654.74	-32.40	339.85	339.57	11.68	11.67	-0.67
10,804.00	65.20	103.40	10,668.50	-38.51	366.95	367.34	10.79	10.00	4.52
10,836.00	69.20	105.90	10,680.90	-45.98	395.47	396.78	14.43	12.50	7.81
10,868.00	73.40	107.80	10,691.15	-54.77	424.47	426.94	14.28	13.12	5.94
10,899.00	76.20	109.20	10,699.28	-64.26	452.84	456.62	10.03	9.03	4.52
10,929.00	79.90	110.30	10,705.49	-74.18	480.46	485.65	12.84	12.33	3.67
10,958.00	84.20	109.40	10,709.50	-83.93	507.47	514.05	15.14	14.83	-3.10
11,033.00	92.70	104.00	10,711.53	-105.44	579.19	588.61	13.42	11.33	-7.20
11,064.00	92.50	104.80	10,710.12	-113.14	609.18	619.53	2.66	-0.65	2.58
11,096.00	92.30	106.90	10,708.78	-121.87	639.93	651.40	6.59	-0.62	6.56
11,128.00	91.50	108.20	10,707.72	-131.52	670.43	683.20	4.77	-2.50	4.06
11,191.00	90.40	107.60	10,706.68	-150.88	730.37	745.78	1.99	-1.75	-0.95
11,254.00	89.60	107.10	10,706.68	-169.67	790.50	808.44	1.50	-1.27	-0.79
11,317.00	89.00	105.50	10,707.45	-187.35	850.96	871.20	2.71	-0.95	-2.54
11,381.00	90.00	104.50	10,708.01	-203.91	912.78	935.06	2.21	1.56	-1.56
11,444.00	89.70	103.40	10,708.17	-219.10	973.92	998.00	1.81	-0.48	-1.75



Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Merit 6 EH State Com # 1H
Project:	Lea County, New Mexico	TVD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Site:	Merit 6 EH State Com	MD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Well:	Merit 6 EH State Com # 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,507.00	89.30	102.70	10,708.72	-233.32	1,035.29	1,060.97	1.28	-0.63	-1.11
11,570.00	89.10	102.50	10,709.60	-247.06	1,096.77	1,123.95	0.45	-0.32	-0.32
11,633.00	88.50	102.50	10,710.92	-260.69	1,158.26	1,186.92	0.95	-0.95	0.00
11,697.00	89.30	100.60	10,712.15	-273.51	1,220.95	1,250.91	3.22	1.25	-2.97
11,760.00	88.70	100.10	10,713.25	-284.82	1,282.91	1,313.89	1.24	-0.95	-0.79
11,823.00	89.40	99.50	10,714.29	-295.54	1,344.98	1,376.85	1.46	1.11	-0.95
11,887.00	91.70	98.80	10,713.68	-305.72	1,408.16	1,440.80	3.76	3.59	-1.09
11,950.00	92.00	98.70	10,711.64	-315.30	1,470.40	1,503.70	0.50	0.48	-0.16
12,013.00	91.50	98.00	10,709.72	-324.44	1,532.70	1,566.58	1.37	-0.79	-1.11
12,077.00	92.40	98.30	10,707.54	-333.51	1,596.01	1,630.44	1.48	1.41	0.47
12,140.00	93.20	98.70	10,704.47	-342.81	1,658.25	1,693.29	1.42	1.27	0.63
12,203.00	93.30	98.50	10,700.89	-352.22	1,720.44	1,756.11	0.35	0.16	-0.32
12,266.00	93.40	97.80	10,697.21	-361.13	1,782.70	1,818.91	1.12	0.16	-1.11
12,330.00	93.20	97.80	10,693.53	-369.80	1,846.00	1,882.68	0.31	-0.31	0.00
12,393.00	92.60	98.30	10,690.34	-378.62	1,908.30	1,945.49	1.24	-0.95	0.79
12,456.00	92.30	98.30	10,687.65	-387.70	1,970.58	2,008.34	0.48	-0.48	0.00
12,519.00	92.10	98.50	10,685.23	-396.90	2,032.86	2,071.21	0.45	-0.32	0.32
12,582.00	90.60	99.90	10,683.75	-406.97	2,095.03	2,134.14	3.26	-2.38	2.22
12,645.00	89.90	99.50	10,683.47	-417.58	2,157.13	2,197.12	1.28	-1.11	-0.63
12,708.00	89.30	99.00	10,683.91	-427.71	2,219.30	2,260.07	1.24	-0.95	-0.79
12,772.00	90.00	99.00	10,684.30	-437.72	2,282.52	2,324.01	1.09	1.09	0.00
12,835.00	90.70	99.50	10,683.92	-447.85	2,344.69	2,386.97	1.37	1.11	0.79
12,898.00	90.40	98.80	10,683.31	-457.86	2,406.89	2,449.92	1.21	-0.48	-1.11
12,961.00	89.70	99.20	10,683.26	-467.72	2,469.11	2,512.86	1.28	-1.11	0.63
13,025.00	89.80	100.40	10,683.54	-478.61	2,532.18	2,576.84	1.88	0.16	1.87
13,088.00	91.30	101.50	10,682.93	-490.58	2,594.02	2,639.83	2.95	2.38	1.75
13,151.00	92.10	101.50	10,681.06	-503.13	2,655.73	2,702.80	1.27	1.27	0.00
13,215.00	90.90	100.60	10,679.39	-515.40	2,718.52	2,766.78	2.34	-1.87	-1.41
13,278.00	88.90	102.00	10,679.50	-527.74	2,780.30	2,829.77	3.88	-3.17	2.22
13,341.00	87.90	101.80	10,681.26	-540.72	2,841.92	2,892.74	1.62	-1.59	-0.32
13,404.00	87.10	101.50	10,684.00	-553.43	2,903.56	2,955.68	1.36	-1.27	-0.48
13,468.00	87.50	102.50	10,687.02	-566.73	2,966.09	3,019.61	1.68	0.62	1.56
13,531.00	90.30	103.90	10,688.23	-581.11	3,027.41	3,082.56	4.97	4.44	2.22
13,594.00	91.00	103.80	10,687.51	-596.19	3,088.57	3,145.49	1.12	1.11	-0.16
13,657.00	91.80	103.20	10,685.97	-610.89	3,149.81	3,208.43	1.59	1.27	-0.95
13,720.00	91.90	102.90	10,683.94	-625.11	3,211.15	3,271.37	0.50	0.16	-0.48
13,784.00	92.20	102.90	10,681.65	-639.39	3,273.50	3,335.31	0.47	0.47	0.00
13,847.00	91.80	101.80	10,679.45	-652.85	3,335.00	3,398.26	1.86	-0.63	-1.75
13,911.00	91.30	101.00	10,677.72	-665.50	3,397.72	3,462.23	1.47	-0.78	-1.25
13,974.00	91.20	100.80	10,676.35	-677.41	3,459.56	3,525.22	0.35	-0.16	-0.32
14,037.00	91.60	99.90	10,674.81	-688.72	3,521.52	3,588.19	1.56	0.63	-1.43
14,101.00	92.20	100.40	10,672.69	-700.00	3,584.48	3,652.14	1.22	0.94	0.78
14,164.00	91.80	101.00	10,670.49	-711.69	3,646.35	3,715.09	1.14	-0.63	0.95



Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Merit 6 EH State Com # 1H
Project:	Lea County, New Mexico	TVD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Site:	Merit 6 EH State Com	MD Reference:	20' RKB @ 3969.00usft (Patterson #47)
Well:	Merit 6 EH State Com # 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Stryker

Survey

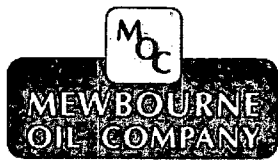
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,227.00	92.90	101.50	10,667.90	-723.97	3,708.09	3,778.04	1.92	1.75	0.79
14,290.00	92.90	101.30	10,664.72	-736.40	3,769.76	3,840.96	0.32	0.00	-0.32
14,354.00	91.70	102.00	10,662.15	-749.32	3,832.39	3,904.90	2.17	-1.87	1.09
14,416.00	90.00	102.00	10,661.23	-762.20	3,893.03	3,966.89	2.74	-2.74	0.00
14,479.00	89.00	102.00	10,661.78	-775.30	3,954.65	4,029.88	1.59	-1.59	0.00
14,542.00	88.30	101.80	10,663.26	-788.29	4,016.28	4,092.86	1.16	-1.11	-0.32
14,605.00	90.10	101.50	10,664.14	-801.01	4,077.97	4,155.85	2.90	2.86	-0.48
14,669.00	91.50	100.20	10,663.25	-813.05	4,140.82	4,219.84	2.98	2.19	-2.03
14,732.00	93.50	99.50	10,660.50	-823.82	4,202.83	4,282.76	3.36	3.17	-1.11
14,796.00	93.90	99.20	10,656.37	-834.20	4,265.85	4,346.58	0.78	0.62	-0.47
14,859.00	93.60	102.20	10,652.25	-845.87	4,327.61	4,409.44	4.78	-0.48	4.76
14,922.00	93.40	102.20	10,648.40	-859.16	4,389.07	4,472.31	0.32	-0.32	0.00
14,985.00	93.70	102.40	10,644.50	-872.55	4,450.51	4,535.18	0.57	0.48	0.32
15,048.00	93.50	101.30	10,640.55	-885.46	4,512.04	4,598.06	1.77	-0.32	-1.75
15,111.00	89.30	102.50	10,639.01	-898.45	4,573.66	4,661.02	6.93	-6.67	1.90
15,174.00	88.50	102.40	10,640.22	-912.03	4,635.16	4,724.00	1.28	-1.27	-0.16
15,238.00	88.00	102.00	10,642.17	-925.55	4,697.69	4,787.96	1.00	-0.78	-0.62
15,289.00	87.40	102.00	10,644.22	-936.14	4,747.53	4,838.91	1.18	-1.18	0.00
15,350.00	87.40	102.00	10,646.98	-948.81	4,807.14	4,899.85	0.00	0.00	0.00

Final Station Closure Distance= 4899.88' / Direction = 101.17° - TD Lat.=32° 41' 25.829 N / Long.=103° 29' 19.537 W - Bit Projection: 1535'

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
10,121.00	10,117.95	46.21	34.62	Gyro Tie In: 10121.00' MD / 10117.95' TVD
10,172.00	10,168.93	45.23	35.43	First Stryker MWD: 10172.00' MD / 10168.93' TVD
15,350.00	10,646.98	-948.81	4,807.14	Final Station Closure Distance= 4899.88' / Direction = 101.17°
15,350.00	10,646.98	-948.81	4,807.14	TD Lat.=32° 41' 25.829 N / Long.=103° 29' 19.537 W
15,350.00	10,646.98	-948.81	4,807.14	Bit Projection: 15350.00' MD / 10646.98' TVD
15,350.00	10,646.98	-948.81	4,807.14	TD X= 759836.08 / Y=615952.21
15,350.00	10,646.98	-948.81	4,807.14	TD: 342' FEL / 4905' FWL

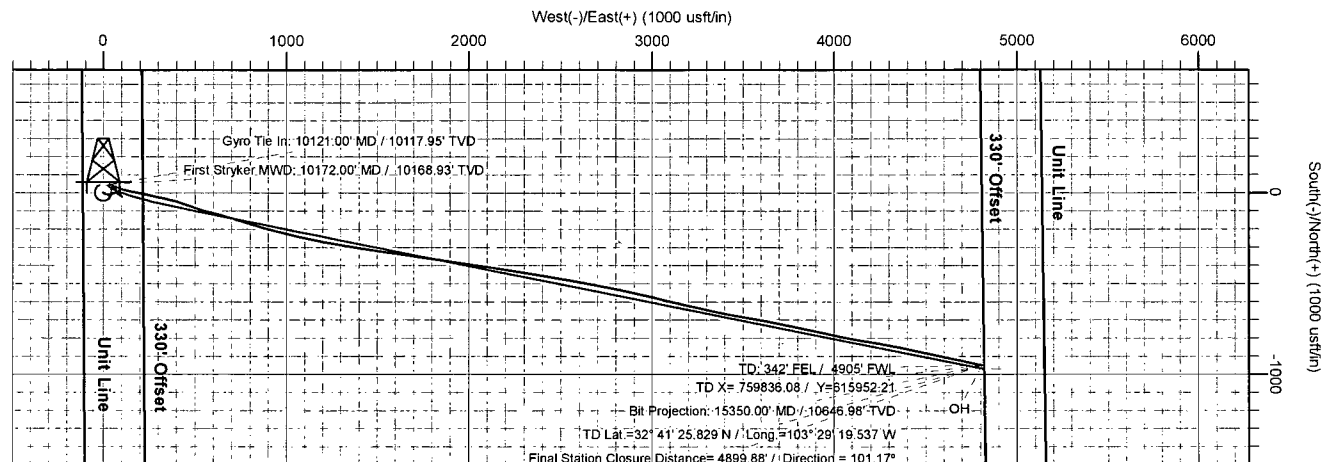
Checked By: _____ Approved By: _____ Date: _____



Mewbourne Oil Company
Lea County, New Mexico
Merit 6 EH State Com
Merit 6 EH State Com # 1H
Plan #3
Patterson #47



Hardlines:
330' FNL/FSL & 330' FEL/FWL



RKB Elevation: 20' RKB @ 3969.00usft (Patterson #47)
Ground Elevation: 3949.00

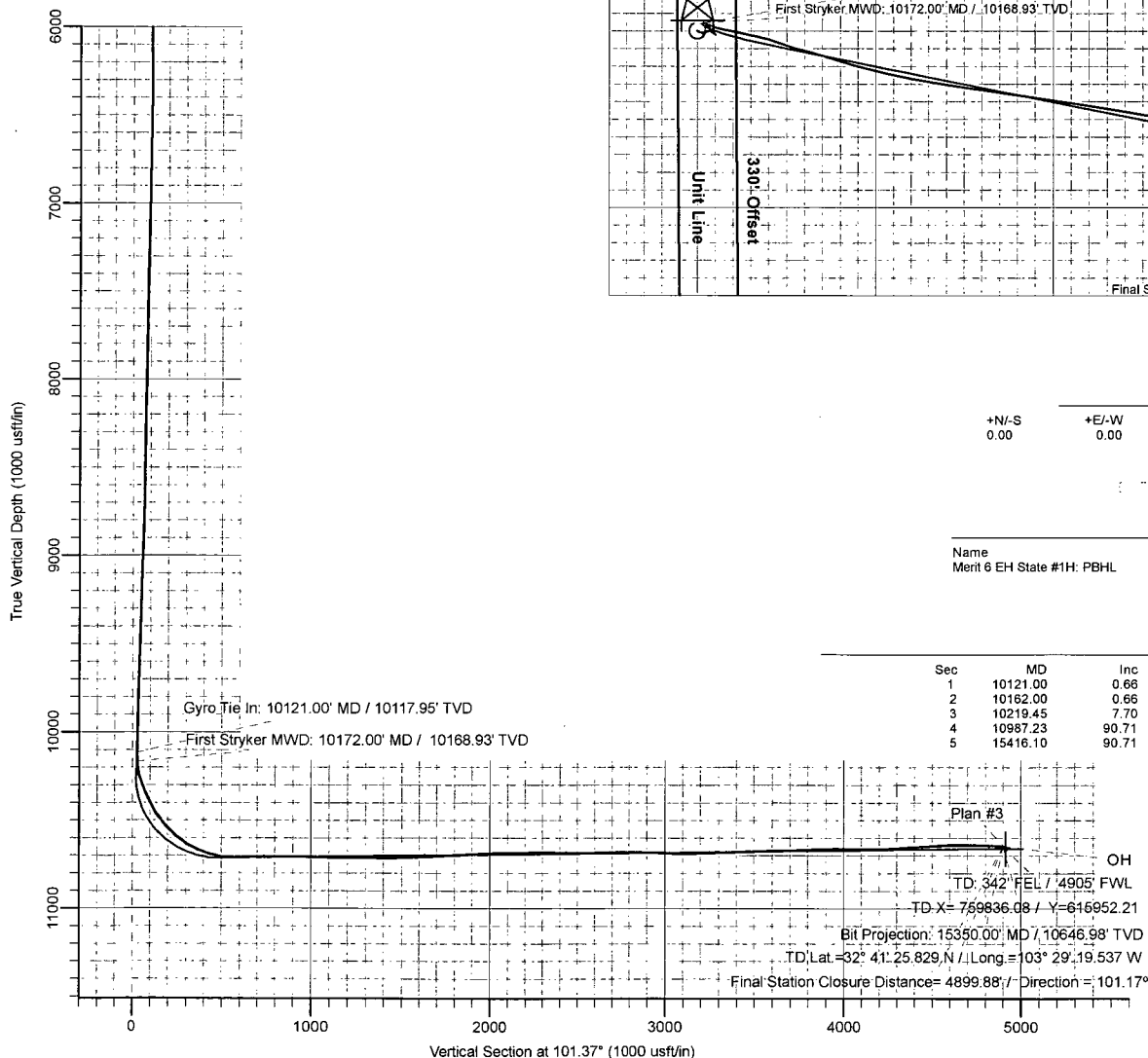
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	616901.02	755028.94	32° 41' 35.592 N	103° 30' 15.696 W

Design Target Details

Name	TVD	+N/-S	+E/-W	Northing	Easting
Merit 6 EH State #1H: PBHL	10659.20	-968.20	4815.80	615932.82	759844.74

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
1	10121.00	0.66	301.77	10117.95	46.21	34.62	0.00	24.83
2	10162.00	0.66	301.77	10158.95	46.46	34.22	0.00	24.38
3	10219.45	7.70	234.60	10216.22	44.40	30.79	13.00	21.43
4	10987.23	90.71	101.37	10714.15	-95.39	474.02	12.50	483.52
5	15416.10	90.71	101.37	10659.27	-968.45	4815.64	0.00	4912.05



Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.89°

Magnetic Field
Strength: 48745.4nT
Dip Angle: 60.61°
Date: 6/10/2013
Model: IGRF200510

US State Plane 1927 (Exact solution)
NAD 1927 (NADCON CONUS)
Clarke 1866
New Mexico East 3001
Mean Sea Level

Note: All lease lines and hard lines are estimates only and are subject to customer approval.

Created By: Matthew May Date: 16:38, June 10 2013

Operating Company Mewbourne
Well Name & Number Merit 6 EH #1H
Sales Ticket Number 5453725
Date 5/28/2013

Company Rep Butch Ray
Field
BOT Service Rep Hector R Magallanes
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	11,022.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,543.47	12,410	10,680
Bott Liner										
TVD		10,714.00		KOP		Open Hole		6.125	Casing Vol. (bbl)	412.7
Carry Fluid Weight (ppg)			8.5		Propant Content (ppa)				Max Drill Out Size	0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
Liner Top	1	10292414	JR Setting Sleeve_RH Profile	10786.53						

Zone Length 20 436.5	JR Sleeve_S3 Hyd Set Packer	10786.53	8.64	5.813	3.875				
	4-1/2-13.5 LTC Nipple	10795.17	5.83	5.000	4.000				
	8 Joints of 4-1/2-13.5 LTC Casing	10801.00	301.87	5.000	3.920				
	3.625 EX Frac Sleeve	11102.87	2.40	5.750		3.525	2286		417
19 200.9	3 Joint of 4-1/2-13.5 LTC Casing	11105.27	113.90	5.000	4.000				
	Baker Open Hole Packer	11219.17	3.89	5.820	3.875		2154		
	3 Joints of 4-1/2-13.5 LTC Casing	11223.06	115.49	5.000	4.000				
	3.500 EX Frac Sleeve	11338.55	2.40	5.750		3.400	2286		421
18 162.6	2 Joint of 4-1/2-13.5 LTC Casing	11340.95	75.25	5.000	4.000				
	Baker Open Hole Packer	11416.20	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13.5 LTC Casing	11420.09	75.29	5.000	4.000				
	3.375 EX Frac Sleeve	11495.38	2.40	5.750		3.275	2286		423
17 315.5	2 Joint of 4-1/2-13.5 LTC Casing	11497.78	77.09	5.000	4.000				
	Baker Open Hole Packer	11574.87	3.89	5.820	3.875		2154		
	3 Joints of 4-1/2-13.5 LTC Casing	11578.76	114.59	5.000	4.000				
	3.250 EX Frac Sleeve	11693.35	2.40	5.750		3.150	2286		426
16 236.8	5 Joint of 4-1/2-13.5 LTC Casing	11695.75	190.77	5.000	4.000				
	Baker Open Hole Packer	11886.52	3.89	5.820	3.875		2154		
	4 Joints of 4-1/2-13.5 LTC Casing	11890.41	151.05	5.000	4.000				
	3.125 EX Frac Sleeve	12041.46	2.40	5.750		3.025	2286		431
15	3 Joints of 4-1/2-13.5 LTC Casing	12043.86	75.55	5.000	4.000				
	Baker Open Hole Packer	12119.41	3.89	5.820	3.875		2154		
	3 Joints of 4-1/2-13.5 LTC Casing	12123.30	112.84	5.000	4.000				

Operating Company Mewbourne
 Well Name & Number Merit 6 EH #1H
 Sales Ticket Number 5453725
 Date 5/28/2013

Company Rep Butch Ray
 Field
 BOT Service Rep Hector R Magallanes
 District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	11,022.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,543.47	12,410	10,680	
Bott Liner											
TVD		10,714.00		KOP			Open Hole		6.125	Casing Vol. (bbl)	412.7
Carry Fluid Weight (ppg)			8.5		Propan Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
198.2		3.000 EX Frac sleeve	12236.14	2.40	5.750		2.900	2286		434
		3 Joint of 4-1/2-13.5 LTC Casing	12238.54	75.20	5.000	4.000				
		Baker Open Hole Packer	12313.74	3.89	5.820	3.875		2154		
14		2 Joints of 4-1/2-13.5 LTC Casing	12317.63	76.76	5.000	4.000				
198.9		2.875 EX Frac Sleeve	12394.39	2.40	5.750		2.775	2286		437
		3 Joints of 4-1/2-13.5 LTC Casing	12396.79	111.96	5.000	4.000				
		Baker Open Hole Packer	12508.75	3.89	5.820	3.875		2154		
13		3 Joints of 4-1/2-13.5 LTC Casing	12512.64	113.92	5.000	4.000				
201.1		2.750 EX Frac Sleeve	12626.56	2.40	5.750		2.650	2286		440
		2 Joint of 4-1/2-13.5 LTC Casing	12628.96	77.02	5.000	4.000				
		Baker Open Hole Packer	12705.98	3.89	5.820	3.875		2154		
12		3 Joints of 4-1/2-13.5 LTC Casing	12709.87	116.17	5.000	4.000				
203		2.625 EX Frac Sleeve	12826.04	2.40	5.750		2.525	2286		443
		2 Joints of 4-1/2-13.5 LTC Casing	12828.44	76.60	5.000	4.000				
		Baker Open Hole Packer	12905.04	3.89	5.820	3.875		2154		
11		3 Joints of 4-1/2-13.5 LTC Casing	12908.93	115.70	5.000	4.000				
242		2.500 EX Frac Sleeve	13024.63	2.40	5.750		2.400	2286		446
		3 Joint of 4-1/2-13.5 LTC Casing	13027.03	116.15	5.000	4.000				
		Baker Open Hole Packer	13143.18	3.89	5.820	3.875		2154		
10		3 Joints of 4-1/2-13.5 LTC Casing	13147.07	114.98	5.000	4.000				
202.5		2.375 EX Frac Sleeve	13262.05	2.40	5.750		2.275	2286		450
		3 Joints of 4-1/2-13.5 LTC Casing	13264.45	77.34	5.000	4.000				
		Baker Open Hole Packer	13341.79	3.89	5.820	3.875		2154		
9		3 Joint of 4-1/2-13.5 LTC Casing	13345.68	115.97	5.000	4.000				
242.4		2.250 EX Frac Sleeve	13461.65	2.40	5.750		2.150	2286		453
		3 Joints of 4-1/2-13.5 LTC Casing	13464.05	116.21	5.000	4.000				
		Baker Open Hole Packer	13580.26	3.89	5.820	3.875		2154		
8		3 Joint of 4-1/2-13.5 LTC Casing	13584.15	115.04	5.000	4.000				

Operating Company Mewbourne
 Well Name & Number Merit 6 EH #1H
 Sales Ticket Number 5453725
 Date 5/28/2013

Company Rep Butch Ray
 Field Hector R Magallanes
 BOT Service Rep Hector R Magallanes
 District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	11,022.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,543.47	12,410	10,680
Bott Liner										
TVD		10,714.00	KOP		Open Hole		6.125	Casing Vol. (bbl)		412.7
Cary Fluid Weight (ppg)		8.5	Propan Content (ppa)				Max Drill Out Size		0	

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
240		2.125 EX Frac Sleeve	13699.19	2.40	5.750		2.025	2286		456
		3 Joints of 4-1/2-13.5 LTC Casing	13701.59	114.80	5.000	4.000				
		Baker Open Hole Packer	13816.39	3.89	5.820	3.875		2154		
7		3 Joint of 4-1/2-13.5 LTC Casing	13820.28	115.60	5.000	4.000				
241.8		2.000 EX Frac Sleeve	13935.88	2.40	5.750		1.900	2286		460
		3 Joints of 4-1/2-13.5 LTC Casing	13938.28	116.02	5.000	4.000				
		Baker Open Hole Packer	14054.30	3.89	5.820	3.875		2154		
6		3 Joint of 4-1/2-13.5 LTC Casing	14058.19	115.64	5.000	4.000				
242		1.875 EX Frac Sleeve	14173.83	2.40	5.750		1.775	2286		463
		3 Joints of 4-1/2-13.5 LTC Casing	14176.23	116.17	5.000	4.000				
		Baker Open Hole Packer	14292.40	3.89	5.820	3.875		2154		
5		3 Joints of 4-1/2-13.5 LTC Casing	14296.29	115.13	5.000	4.000				
279.8		1.750 EX Frac Sleeve	14411.42	2.40	5.750		1.650	2286		467
		4 Joint of 4-1/2-13.5 LTC Casing	14413.82	154.49	5.000	4.000				
		Baker Open Hole Packer	14568.31	3.89	5.820	3.875		2154		
4		3 Joints of 4-1/2-13.5 LTC Casing	14572.20	114.93	5.000	4.000				
201.8		1.625 EX Frac Sleeve	14687.13	2.40	5.750		1.525	2286		471
		2 Joints of 4-1/2-13.5 LTC Casing	14689.53	76.66	5.000	4.000				
		Baker Open Hole Packer	14766.19	3.89	5.820	3.875		2154		
3		3 Joints of 4-1/2-13.5 LTC Casing	14770.08	114.90	5.000	4.000				
240.4		1.50 DB EX Frac Sleeve	14884.98	2.40	5.750		1.400	2286		474
		3 Joints of 4-1/2-13.5 LTC Casing	14887.38	115.30	5.000	4.000				
		Baker Open Hole Packer	15002.68	3.89	5.820			2154		
2		3 Joints of 4-1/2-13.5 LTC Casing	15006.57	114.78	5.000	4.000				
240.3		1.375 DB EX Frac Sleeve	15121.35	2.40	5.750		1.275	2286		477
		3 Joints of 4-1/2-13.5 LTC Casing	15123.75	115.29	5.000	4.000				
		Baker Open, Hole Packer	15239.04	3.89	5.820			2154		
1		2 Joints of 4-1/2-13.5 LTC Casing	15242.93	76.47	5.000	4.000				

Company Rep	Butch Ray
Field	
BOT Service Rep	Hector R Magallanes
District Location	Odessa, Texas, USA



Carry Fluid Weight (ppg)	8.5	Propant Content (ppa)		Max Drill Out Size	0
--------------------------	-----	-----------------------	--	--------------------	---

[illegible]