

OPERATOR
WELL/LEASE
COUNTY

Mewbourne Oil Company
Mad Dog 35 B3AP State Com 001H
Lea

RIG 250-0012

STATE OF NEW MEXICO
DEVIATION REPORT

497	1.00
1,132	3.50
1,324	1.20
1,451	1.20
1,705	1.80
1,933	2.10
2,366	1.50
3,850	0.70
5,629	4.13
5,780	4.50
6,108	4.40
6,580	3.17
7,043	2.90
7,523	3.08
7,993	1.83
8,467	1.46
8,943	1.06
9,214	2.02
10,068	0.90
10,162	0.80
10,256	1.50
10,351	1.30
10,446	1.20
10,541	1.70

HOBBS OCD
AUG 01 2016
RECEIVED

STATE OF TEXAS

COUNTY OF MIDLAND

BY: _____

Dora Garcia

The foregoing instrument was acknowledged before me on
Dora Garcia on behalf of Patterson-UTi Drilling Company LLC.

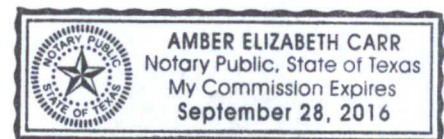
2/3/16

, by

Amber Elizabeth Carr

Notary Public for Midland County, Texas

My Commission Expires:





COMPANY: Mewbourne Oil Company
 WELL: Mad Dog 35 B3AP State Com #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson Patterson #250



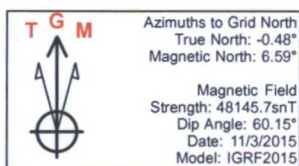
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.59°

OFFICE: 936.582.7296

HOBBS OGD
 AUG 01 2016
 RECEIVED

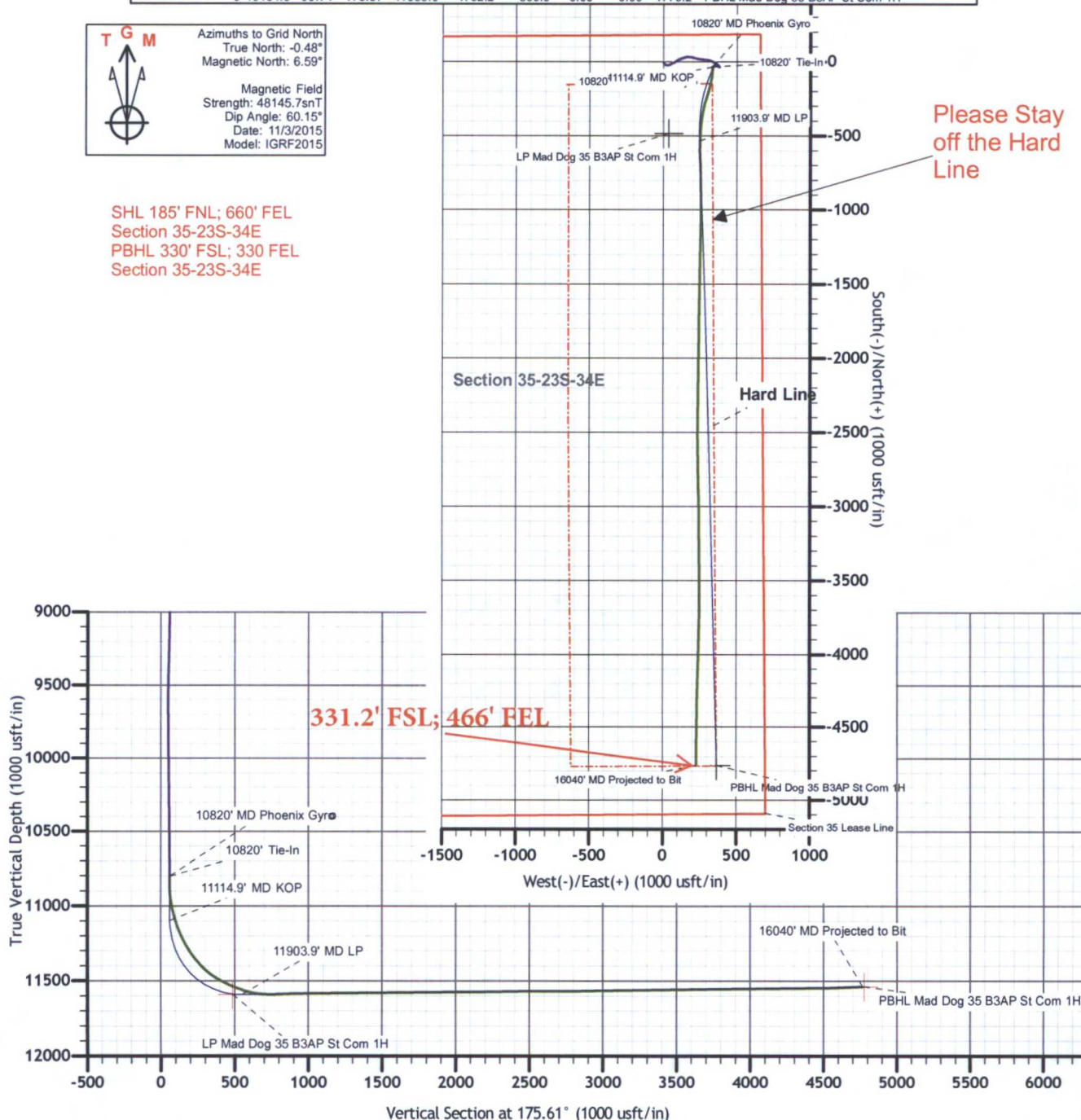
GEODETTIC ZONE: New Mexico East 3001 3411 + 27 @ 3438.0usft (Patterson #250) GROUND ELEVATION: 3411.0							Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude		
0.0	0.0	462274.40	778002.10	32° 16' 3.74 N	103° 26' 2.148 W		

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	10820.0	0.50	117.50	10802.3	-33.9	332.6	0.00	0.00	59.3	
2	11114.9	0.50	117.50	11097.2	-35.1	334.9	0.00	0.00	60.7	
3	11447.8	40.00	201.91	11403.7	-139.3	294.6	12.00	85.00	161.5	
4	11903.9	90.69	177.81	11590.0	-533.6	244.8	12.00	-30.00	550.7	
5	14259.1	90.71	178.57	11561.2	-2887.4	319.1	0.03	88.51	2903.3	
6	16134.6	90.71	178.57	11538.0	-4762.2	366.0	0.00	0.00	4776.2	PBHL Mad Dog 35 B3AP St Com 1H



SHL 185' FNL; 660' FEL
 Section 35-23S-34E
 PBHL 330' FSL; 330 FEL
 Section 35-23S-34E

Please Stay
 off the Hard
 Line





HOBBS OCD

AUG 01 2016

RECEIVED

Mewbourne Oil Company .

Lea County N.M.

Section 35-23S-34E Mad Dog 35 B3AP State Com #1H

Mad Dog 35 B3AP State Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

15 December, 2015





Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Mad Dog 35 B3AP State Com #1H
Project:	Lea County N.M.	TVD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Site:	Section 35-23S-34E Mad Dog 35 B3AP State Com #1H	MD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Well:	Mad Dog 35 B3AP State Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Lea County N.M.		
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 35-23S-34E Mad Dog 35 B3AP State Com #1H		
Site Position:		Northing:	462,274.40 usft
From:	Map	Easting:	778,002.10 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 3.744 N
		Longitude:	103° 26' 2.148 W
		Grid Convergence:	0.48 °

Well	Mad Dog 35 B3AP State Com #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 16' 3.744 N
		Longitude:	103° 26' 2.148 W
		Ground Level:	3,411.0 usft

Wellbore	Original Hole		
----------	---------------	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/3/2015	7.07	60.15	48,146

Design	Original Hole		
--------	---------------	--	--

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	175.61

Survey Program	Date 12/15/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	10,820.0	Phoenix Tech . Gyro Survey (Original Hole)	SRG-GYRO-MS
10,911.0	16,040.0	MWD Survey (Original Hole)	MWD
			Description
			surface readout gyro multishot
			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	0.16	156.99	100.0	-0.1	0.1	0.1	0.16	0.16	0.00
200.0	0.16	338.08	200.0	-0.1	0.1	0.1	0.32	0.00	-178.91
300.0	0.18	16.26	300.0	0.2	0.0	-0.1	0.11	0.02	38.18
400.0	0.29	330.69	400.0	0.5	0.0	-0.5	0.21	0.11	-45.57
500.0	0.27	109.02	500.0	0.7	0.1	-0.7	0.52	-0.02	138.33
600.0	0.29	150.95	600.0	0.4	0.4	-0.3	0.20	0.02	41.93
700.0	0.20	105.51	700.0	0.1	0.7	0.0	0.21	-0.09	-45.44
800.0	0.29	322.78	800.0	0.3	0.7	-0.2	0.47	0.09	-142.73



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Mad Dog 35 B3AP State Com #1H
Project:	Lea County N.M.	TVD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Site:	Section 35-23S-34E Mad Dog 35 B3AP State Com #1H	MD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Well:	Mad Dog 35 B3AP 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)
900.0	1.27	163.76	900.0	-0.6	0.9	0.7	1.54	0.98	-159.02
1,000.0	1.31	154.36	1,000.0	-2.7	1.7	2.8	0.22	0.04	-9.40
1,100.0	0.85	150.59	1,099.9	-4.4	2.5	4.6	0.47	-0.46	-3.77
1,200.0	1.13	145.48	1,199.9	-5.8	3.5	6.1	0.29	0.28	-5.11
1,300.0	1.32	154.86	1,299.9	-7.7	4.5	8.0	0.28	0.19	9.38
1,400.0	1.40	142.84	1,399.9	-9.7	5.7	10.1	0.30	0.08	-12.02
1,500.0	1.29	146.33	1,499.9	-11.6	7.1	12.1	0.14	-0.11	3.49
1,600.0	1.60	132.19	1,599.8	-13.5	8.8	14.1	0.47	0.31	-14.14
1,700.0	2.04	125.05	1,699.8	-15.5	11.3	16.3	0.49	0.44	-7.14
1,800.0	1.97	124.85	1,799.7	-17.5	14.1	18.5	0.07	-0.07	-0.20
1,900.0	2.26	111.31	1,899.6	-19.2	17.4	20.4	0.58	0.29	-13.54
2,000.0	1.99	96.10	1,999.6	-20.1	20.9	21.6	0.62	-0.27	-15.21
2,100.0	1.87	110.62	2,099.5	-20.8	24.2	22.6	0.50	-0.12	14.52
2,200.0	1.73	91.42	2,199.5	-21.4	27.2	23.4	0.62	-0.14	-19.20
2,300.0	1.65	78.88	2,299.4	-21.2	30.1	23.4	0.38	-0.08	-12.54
2,400.0	1.25	68.18	2,399.4	-20.5	32.6	22.9	0.48	-0.40	-10.70
2,500.0	1.24	65.68	2,499.4	-19.7	34.6	22.2	0.06	-0.01	-2.50
2,600.0	1.13	81.26	2,599.3	-19.1	36.5	21.8	0.34	-0.11	15.58
2,700.0	1.14	78.93	2,699.3	-18.7	38.5	21.6	0.05	0.01	-2.33
2,800.0	1.27	56.61	2,799.3	-17.9	40.4	21.0	0.48	0.13	-22.32
2,900.0	1.04	60.23	2,899.3	-16.9	42.1	20.0	0.24	-0.23	3.62
3,000.0	1.37	66.05	2,999.3	-15.9	44.0	19.2	0.35	0.33	5.82
3,100.0	1.97	73.85	3,099.2	-15.0	46.7	18.5	0.64	0.60	7.80
3,200.0	2.18	51.20	3,199.2	-13.3	49.8	17.1	0.84	0.21	-22.65
3,300.0	2.17	60.55	3,299.1	-11.2	53.0	15.2	0.35	-0.01	9.35
3,400.0	2.08	55.82	3,399.0	-9.2	56.1	13.5	0.20	-0.09	-4.73
3,500.0	1.95	56.85	3,499.0	-7.3	59.1	11.8	0.13	-0.13	1.03
3,600.0	0.96	70.08	3,598.9	-6.0	61.3	10.7	1.04	-0.99	13.23
3,700.0	0.57	65.26	3,698.9	-5.6	62.5	10.3	0.39	-0.39	-4.82
3,800.0	0.90	69.91	3,798.9	-5.1	63.7	9.9	0.34	0.33	4.65
3,900.0	2.56	79.77	3,898.9	-4.4	66.6	9.5	1.68	1.66	9.86
4,000.0	3.78	63.06	3,998.7	-2.5	71.8	8.0	1.52	1.22	-16.71
4,100.0	4.69	55.49	4,098.4	1.3	78.1	4.7	1.07	0.91	-7.57
4,200.0	6.42	56.63	4,198.0	6.7	86.1	-0.1	1.73	1.73	1.14
4,300.0	7.69	61.87	4,297.2	12.9	96.7	-5.5	1.42	1.27	5.24
4,400.0	8.42	64.54	4,396.2	19.2	109.2	-10.8	0.82	0.73	2.67
4,500.0	9.45	71.19	4,495.0	25.0	123.6	-15.5	1.46	1.03	6.65
4,600.0	9.81	73.02	4,593.6	30.1	139.5	-19.4	0.47	0.36	1.83
4,700.0	10.62	80.66	4,692.0	34.1	156.7	-22.0	1.58	0.81	7.64
4,800.0	7.47	94.10	4,790.8	35.2	172.3	-21.9	3.77	-3.15	13.44
4,900.0	7.11	96.95	4,890.0	33.9	184.9	-19.7	0.51	-0.36	2.85
5,000.0	5.54	99.34	4,989.3	32.4	195.9	-17.3	1.59	-1.57	2.39



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Mad Dog 35 B3AP State Com #1H
Project:	Lea County N.M.	TVD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Site:	Section 35-23S-34E Mad Dog 35 B3AP State Com #1H	MD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Well:	Mad Dog 35 B3AP 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)
5,100.0	4.53	107.89	5,089.0	30.4	204.4	-14.7	1.26	-1.01	8.55
5,200.0	3.62	100.52	5,188.7	28.6	211.2	-12.4	1.05	-0.91	-7.37
5,300.0	3.56	109.14	5,288.5	27.0	217.3	-10.3	0.54	-0.06	8.62
5,400.0	3.66	107.58	5,388.3	25.1	223.2	-7.9	0.14	0.10	-1.56
5,500.0	3.98	109.42	5,488.1	22.9	229.6	-5.3	0.34	0.32	1.84
5,600.0	4.33	96.03	5,587.8	21.4	236.6	-3.2	1.03	0.35	-13.39
5,700.0	4.55	95.47	5,687.5	20.6	244.3	-1.8	0.22	0.22	-0.56
5,800.0	4.69	96.40	5,787.2	19.8	252.3	-0.4	0.16	0.14	0.93
5,900.0	4.57	96.58	5,886.9	18.9	260.3	1.1	0.12	-0.12	0.18
6,000.0	4.30	93.94	5,986.6	18.1	268.0	2.4	0.34	-0.27	-2.64
6,100.0	4.15	98.21	6,086.3	17.4	275.3	3.8	0.35	-0.15	4.27
6,200.0	3.99	92.19	6,186.1	16.7	282.4	4.9	0.46	-0.16	-6.02
6,300.0	3.75	99.04	6,285.8	16.1	289.1	6.1	0.52	-0.24	6.85
6,400.0	3.58	102.21	6,385.6	14.9	295.4	7.8	0.26	-0.17	3.17
6,500.0	3.42	98.92	6,485.4	13.8	301.4	9.3	0.26	-0.16	-3.29
6,600.0	3.35	101.91	6,585.3	12.7	307.2	10.8	0.19	-0.07	2.99
6,700.0	3.14	111.25	6,685.1	11.1	312.6	12.8	0.57	-0.21	9.34
6,800.0	3.07	106.65	6,785.0	9.4	317.7	15.0	0.26	-0.07	-4.60
6,900.0	2.97	107.63	6,884.8	7.8	322.8	16.9	0.11	-0.10	0.98
7,000.0	3.04	113.57	6,984.7	6.0	327.7	19.1	0.32	0.07	5.94
7,100.0	2.96	118.53	7,084.5	3.7	332.4	21.8	0.27	-0.08	4.96
7,200.0	2.87	115.92	7,184.4	1.3	336.9	24.4	0.16	-0.09	-2.61
7,300.0	2.73	120.62	7,284.3	-1.0	341.2	27.1	0.27	-0.14	4.70
7,400.0	2.72	115.39	7,384.2	-3.2	345.4	29.6	0.25	-0.01	-5.23
7,500.0	2.95	120.43	7,484.1	-5.5	349.7	32.3	0.34	0.23	5.04
7,600.0	2.55	125.60	7,583.9	-8.1	353.8	35.2	0.47	-0.40	5.17
7,700.0	2.31	126.95	7,683.9	-10.6	357.2	37.9	0.25	-0.24	1.35
7,800.0	2.27	125.37	7,783.8	-13.0	360.4	40.5	0.07	-0.04	-1.58
7,900.0	2.09	125.64	7,883.7	-15.2	363.5	43.0	0.18	-0.18	0.27
8,000.0	1.86	131.99	7,983.6	-17.3	366.2	45.3	0.32	-0.23	6.35
8,100.0	1.80	127.91	8,083.6	-19.4	368.6	47.5	0.14	-0.06	-4.08
8,200.0	1.66	131.64	8,183.5	-21.3	371.0	49.6	0.18	-0.14	3.73
8,300.0	1.54	139.75	8,283.5	-23.3	372.9	51.8	0.26	-0.12	8.11
8,400.0	1.54	137.57	8,383.5	-25.3	374.7	53.9	0.06	0.00	-2.18
8,500.0	1.56	132.69	8,483.4	-27.2	376.6	56.0	0.13	0.02	-4.88
8,600.0	1.39	147.62	8,583.4	-29.2	378.2	58.0	0.42	-0.17	14.93
8,700.0	1.13	155.72	8,683.4	-31.1	379.3	60.0	0.31	-0.26	8.10
8,800.0	0.75	199.05	8,783.4	-32.6	379.5	61.6	0.78	-0.38	43.33
8,900.0	0.71	294.32	8,883.4	-33.0	378.7	61.9	1.08	-0.04	95.27
9,000.0	1.50	332.32	8,983.3	-31.6	377.5	60.4	1.04	0.79	38.00
9,100.0	1.49	314.24	9,083.3	-29.5	376.0	58.2	0.47	-0.01	-18.08
9,200.0	1.52	303.95	9,183.3	-27.9	374.0	56.4	0.27	0.03	-10.29
9,300.0	1.60	304.59	9,283.2	-26.3	371.7	54.7	0.08	0.08	0.64



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Mad Dog 35 B3AP State Com #1H
Project:	Lea County N.M.	TVD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Site:	Section 35-23S-34E Mad Dog 35 B3AP State Com #1H	MD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Well:	Mad Dog 35 B3AP 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)
9,400.0	2.03	305.45	9,383.2	-24.5	369.1	52.7	0.43	0.43	0.86
9,500.0	2.83	294.51	9,483.1	-22.5	365.4	50.4	0.92	0.80	-10.94
9,600.0	3.46	279.39	9,582.9	-20.9	360.2	48.4	1.04	0.63	-15.12
9,700.0	4.31	256.50	9,682.7	-21.3	353.6	48.3	1.75	0.85	-22.89
9,800.0	3.00	234.45	9,782.5	-23.7	347.8	50.3	1.90	-1.31	-22.05
9,900.0	1.33	258.67	9,882.4	-25.5	344.5	51.8	1.87	-1.67	24.22
10,000.0	0.64	260.77	9,982.4	-25.8	342.8	52.0	0.69	-0.69	2.10
10,100.0	0.80	217.64	10,082.4	-26.4	341.9	52.5	0.55	0.16	-43.13
10,200.0	0.99	216.04	10,182.4	-27.7	340.9	53.7	0.19	0.19	-1.60
10,300.0	1.68	221.23	10,282.4	-29.5	339.5	55.4	0.70	0.69	5.19
10,400.0	1.05	259.70	10,382.4	-30.7	337.6	56.5	1.08	-0.63	38.47
10,500.0	1.44	262.09	10,482.3	-31.1	335.4	56.7	0.39	0.39	2.39
10,600.0	1.55	252.64	10,582.3	-31.7	332.9	57.1	0.27	0.11	-9.45
10,700.0	0.86	151.39	10,682.3	-32.7	332.0	58.0	1.91	-0.69	-101.25
10,800.0	0.50	156.96	10,782.3	-33.8	332.5	59.1	0.37	-0.36	5.57
10,820.0	0.50	117.50	10,802.3	-33.9	332.6	59.3	1.69	0.00	-197.30
10820' MD Phoenix Gyro									
10,911.0	1.00	161.10	10,893.3	-34.8	333.2	60.2	0.80	0.55	47.91
10,943.0	4.20	172.90	10,925.2	-36.3	333.5	61.7	10.09	10.00	36.88
10,974.0	7.50	178.70	10,956.1	-39.4	333.6	64.8	10.80	10.65	18.71
11,006.0	9.70	182.60	10,987.7	-44.2	333.6	69.6	7.11	6.88	12.19
11,037.0	12.60	184.00	11,018.1	-50.2	333.2	75.5	9.39	9.35	4.52
11,069.0	15.10	181.70	11,049.2	-57.8	332.8	83.1	8.00	7.81	-7.19
11,101.0	17.90	182.60	11,079.9	-66.9	332.5	92.2	8.79	8.75	2.81
11,132.0	19.70	184.50	11,109.2	-76.9	331.9	102.1	6.13	5.81	6.13
11,163.0	21.10	187.10	11,138.3	-87.6	330.8	112.7	5.38	4.52	8.39
11,195.0	22.50	190.60	11,168.0	-99.4	328.9	124.3	5.97	4.38	10.94
11,226.0	24.40	192.90	11,196.4	-111.4	326.4	136.1	6.80	6.13	7.42
11,258.0	27.10	193.90	11,225.2	-125.0	323.2	149.3	8.55	8.44	3.13
11,289.0	30.20	193.40	11,252.4	-139.4	319.7	163.5	10.03	10.00	-1.61
11,321.0	33.50	192.90	11,279.6	-155.8	315.8	179.6	10.35	10.31	-1.56
11,352.0	36.70	194.50	11,305.0	-173.2	311.6	196.5	10.74	10.32	5.16
11,384.0	39.00	196.40	11,330.2	-192.1	306.4	215.0	8.06	7.19	5.94
11,415.0	41.20	197.80	11,354.0	-211.2	300.5	233.5	7.67	7.10	4.52
11,447.0	43.20	198.40	11,377.7	-231.6	293.8	253.4	6.38	6.25	1.88
11,479.0	45.90	197.60	11,400.5	-252.9	286.9	274.2	8.62	8.44	-2.50
11,510.0	48.90	196.20	11,421.4	-274.8	280.3	295.4	10.23	9.68	-4.52
11,541.0	52.60	194.20	11,441.1	-297.9	274.0	318.0	12.94	11.94	-6.45
11,573.0	56.40	192.00	11,459.6	-323.3	268.1	342.9	13.13	11.88	-6.88
11,604.0	59.00	189.70	11,476.2	-349.0	263.2	368.1	10.47	8.39	-7.42
11,636.0	60.50	186.90	11,492.3	-376.4	259.2	395.1	8.89	4.69	-8.75
11,667.0	63.10	186.10	11,507.0	-403.5	256.1	421.9	8.69	8.39	-2.58



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Mad Dog 35 B3AP State Com #1H
Project:	Lea County N.M.	TVD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Site:	Section 35-23S-34E Mad Dog 35 B3AP State Com #1H	MD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Well:	Mad Dog 35 B3AP 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)
11,699.0	65.60	185.00	11,520.8	-432.2	253.3	450.4	8.40	7.81	-3.44
11,731.0	68.10	183.30	11,533.4	-461.6	251.2	479.4	9.21	7.81	-5.31
11,762.0	70.00	181.10	11,544.5	-490.5	250.1	508.2	9.03	6.13	-7.10
11,775.5	70.38	181.48	11,549.1	-503.2	249.8	520.8	3.86	2.81	2.82
LP Mad Dog 35 B3AP St Com 1H									
11,794.0	70.90	182.00	11,555.2	-520.6	249.3	538.2	3.86	2.82	2.81
11,825.0	73.10	182.20	11,564.8	-550.1	248.2	567.5	7.12	7.10	0.65
11,857.0	75.80	180.30	11,573.4	-580.9	247.5	598.2	10.19	8.44	-5.94
11,888.0	78.10	178.20	11,580.4	-611.1	247.9	628.3	9.93	7.42	-6.77
11,919.0	82.70	177.20	11,585.5	-641.6	249.1	658.8	15.18	14.84	-3.23
11,934.0	86.50	177.20	11,586.9	-656.6	249.9	673.8	25.33	25.33	0.00
12,007.0	91.50	178.50	11,588.2	-729.5	252.6	746.7	7.08	6.85	1.78
12,038.0	91.60	178.70	11,587.4	-760.5	253.4	777.6	0.72	0.32	0.65
12,132.0	91.90	179.50	11,584.5	-854.4	254.8	871.4	0.91	0.32	0.85
12,227.0	90.10	179.90	11,582.8	-949.4	255.3	966.1	1.94	-1.89	0.42
12,321.0	90.90	180.20	11,582.0	-1,043.4	255.2	1,059.8	0.91	0.85	0.32
12,416.0	89.80	181.10	11,581.4	-1,138.4	254.2	1,154.5	1.50	-1.16	0.95
12,510.0	90.50	181.20	11,581.2	-1,232.3	252.3	1,248.0	0.75	0.74	0.11
12,605.0	91.30	181.70	11,579.7	-1,327.3	249.9	1,342.5	0.99	0.84	0.53
12,700.0	89.90	181.50	11,578.7	-1,422.3	247.2	1,437.0	1.49	-1.47	-0.21
12,794.0	90.70	181.20	11,578.2	-1,516.2	245.0	1,530.5	0.91	0.85	-0.32
12,889.0	90.90	180.50	11,576.9	-1,611.2	243.6	1,625.1	0.77	0.21	-0.74
12,984.0	90.50	180.30	11,575.7	-1,706.2	242.9	1,719.8	0.47	-0.42	-0.21
13,078.0	91.10	180.40	11,574.4	-1,800.2	242.4	1,813.5	0.65	0.64	0.11
13,173.0	89.30	181.00	11,574.1	-1,895.2	241.2	1,908.1	2.00	-1.89	0.63
13,267.0	90.30	180.90	11,574.4	-1,989.2	239.6	2,001.7	1.07	1.06	-0.11
13,362.0	90.50	181.10	11,573.7	-2,084.1	238.0	2,096.2	0.30	0.21	0.21
13,456.0	91.30	181.00	11,572.3	-2,178.1	236.3	2,189.8	0.86	0.85	-0.11
13,550.0	90.20	180.30	11,571.0	-2,272.1	235.2	2,283.4	1.39	-1.17	-0.74
13,645.0	91.00	180.30	11,570.0	-2,367.1	234.7	2,378.1	0.84	0.84	0.00
13,739.0	91.60	179.70	11,567.9	-2,461.1	234.7	2,471.8	0.90	0.64	-0.64
13,834.0	89.80	179.20	11,566.8	-2,556.0	235.6	2,566.6	1.97	-1.89	-0.53
13,929.0	89.80	179.20	11,567.1	-2,651.0	236.9	2,661.4	0.00	0.00	0.00
14,023.0	90.20	179.10	11,567.1	-2,745.0	238.3	2,755.2	0.44	0.43	-0.11
14,118.0	90.90	178.80	11,566.2	-2,840.0	240.1	2,850.0	0.80	0.74	-0.32
14,212.0	91.50	178.70	11,564.2	-2,934.0	242.1	2,943.9	0.65	0.64	-0.11
14,307.0	90.70	179.30	11,562.4	-3,028.9	243.8	3,038.7	1.05	-0.84	0.63
14,402.0	90.90	179.60	11,561.1	-3,123.9	244.7	3,133.5	0.38	0.21	0.32
14,497.0	89.80	178.90	11,560.5	-3,218.9	245.9	3,228.3	1.37	-1.16	-0.74
14,591.0	90.70	179.60	11,560.1	-3,312.9	247.2	3,322.1	1.21	0.96	0.74
14,686.0	91.40	179.00	11,558.3	-3,407.9	248.3	3,416.9	0.97	0.74	-0.63
14,780.0	90.50	180.20	11,556.8	-3,501.8	249.0	3,510.6	1.60	-0.96	1.28
14,875.0	90.90	179.90	11,555.6	-3,596.8	248.9	3,605.3	0.53	0.42	-0.32



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Mad Dog 35 B3AP State Com #1H
Project:	Lea County N.M.	TVD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Site:	Section 35-23S-34E Mad Dog 35 B3AP State Com #1H	MD Reference:	3411 + 27 @ 3438.0usft (Patterson #250)
Well:	Mad Dog 35 B3AP 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)
14,969.0	91.50	180.10	11,553.6	-3,690.8	248.9	3,699.0	0.67	0.64	0.21
15,064.0	89.90	181.00	11,552.5	-3,785.8	248.0	3,793.7	1.93	-1.68	0.95
15,158.0	90.90	181.70	11,551.8	-3,879.8	245.8	3,887.2	1.30	1.06	0.74
15,253.0	90.00	181.90	11,551.1	-3,974.7	242.8	3,981.6	0.97	-0.95	0.21
15,348.0	90.60	182.00	11,550.6	-4,069.7	239.6	4,076.1	0.64	0.63	0.11
15,442.0	90.60	182.60	11,549.6	-4,163.6	235.8	4,169.4	0.64	0.00	0.64
15,537.0	90.40	181.30	11,548.8	-4,258.5	232.6	4,263.8	1.38	-0.21	-1.37
15,632.0	90.70	181.50	11,547.8	-4,353.5	230.2	4,358.3	0.38	0.32	0.21
15,726.0	90.30	180.80	11,547.0	-4,447.5	228.3	4,451.9	0.86	-0.43	-0.74
15,821.0	91.60	179.20	11,545.5	-4,542.5	228.3	4,546.6	2.17	1.37	-1.68
15,915.0	92.40	179.60	11,542.2	-4,636.4	229.3	4,640.3	0.95	0.85	0.43
16,010.0	92.50	180.00	11,538.1	-4,731.3	229.7	4,735.0	0.43	0.11	0.42
16,040.0	92.50	180.00	11,536.8	-4,761.3	229.7	4,764.9	0.00	0.00	0.00

16040' MD Projected to Bit - PBHL Mad Dog 35 B3AP St Com 1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
10,820.0	10,802.3	-33.9	332.6	10820' MD Phoenix Gyro
16,040.0	11,536.8	-4,761.3	229.7	16040' MD Projected to Bit