

Results of Directional Survey

API number:	30-025-41985		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	MAD DOG 35 B3DM STATE # 1H

surface	ULSTR:	D	35	T	23S	R	34E
				185	FNL	450	FWL

BH Loc	ULSTR:	M	35	T	23S	R	34E
15980	MD	11328.8	TVD	345	FSL	484	FWL
4935 FNL							

Top Perf/OH	ULSTR:	D	35	T	23S	R	34E
11760	MD	11368.1	TVD	725	FNL	472	FWL

Bot Perf/OH	ULSTR:	M	35	T	23S	R	34E
15790	MD	11324.9	TVD	534	FSL	464	FWL
4746 FNL							

	MD	N/S	E/W	VD
	11730.00	-509.60	22.30	11369.00
TOP PERFS/OH	11760.00	-539.60	21.62	11368.13
	11761.00	-540.60	21.60	11368.10
	15770.00	-4540.80	12.40	11324.90
BOT PERFS/OH	15790.00	-4560.69	14.36	11324.90
	15865.00	-4635.30	21.70	11324.90

NEXT TO LAST	15932.00	-4701.90	28.60	11327.20
LAST READING	15980.00	-4749.60	33.70	11328.80
TD	15980.00	-4749.60	33.70	11328.80

Surface Location	185	FN	450	FW
Projected BHL	4935	FN	484	FW
Location of				
Top Perfs/OH	725	FN	472	FW
Bottom Perfs/OH	4746	FN	464	FW

SUMMARY of Subsurface Locations

Surface Location	D-35-23S-34E	185	FN	450	FW	Vert. Depth
Top Perfs/OH	D-35-23S-34E	725	FN	472	FW	11368.13
Bottom Perfs/OH	M-35-23S-34E	4746	FN	464	FW	11324.90
Projected TD	M-35-23S-34E	4935	FN	484	FW	11328.80

DEC 17 2010



COMPANY: Mewbourne Oil Company
 WELL: Mad Dog 35 B3DM State Com #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #80



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.67°

OFFICE: 936.582.7296

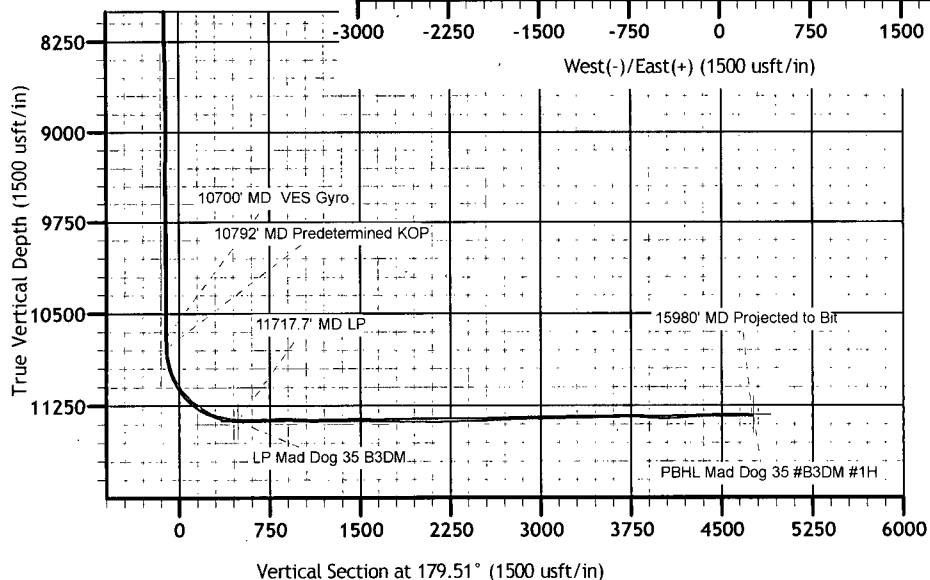
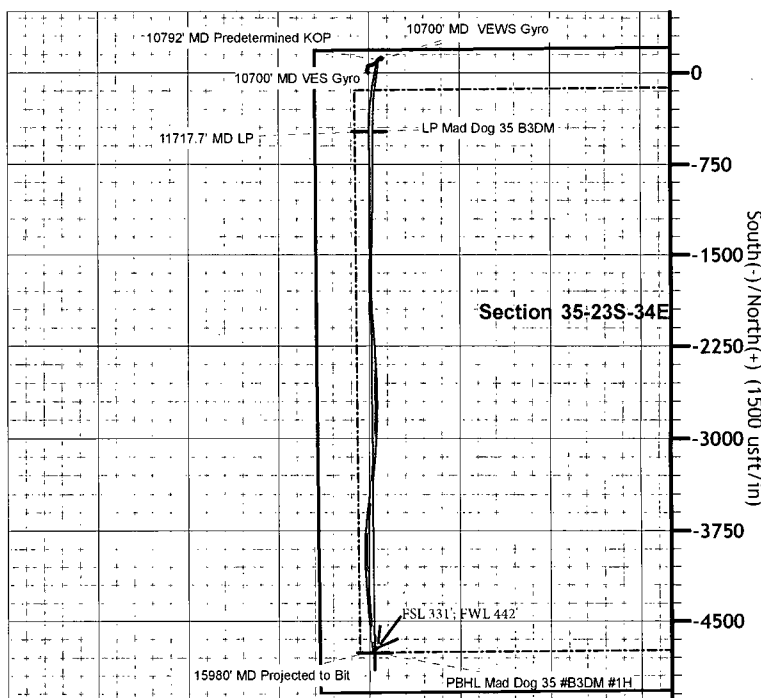
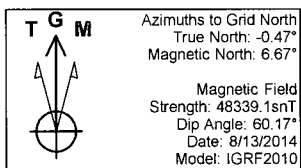
GEODETTIC ZONE: New Mexico East 3001
 3450 + 20 @ 3470.0usft (Patterson #80)

GROUND ELEVATION: 3450.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	462236.40	773827.00	32° 16' 3.712 N	103° 26' 50.773 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	10700.0	0.52	275.84	10695.6	105.0	78.4	0.00	0.00	-104.3	
2	10792.0	0.52	275.84	10787.6	105.1	77.6	0.00	0.00	-104.4	
3	11183.2	38.96	193.87	11149.3	-18.9	45.1	9.94	-82.61	19.3	
4	11717.7	90.67	179.51	11370.0	-483.0	4.1	9.94	-18.06	483.0	LP Mad Dog 35 B3DM
5	15994.8	90.67	179.51	11320.0	-4759.7	40.7	0.00	0.00	4759.9	PBHL Mad Dog 35 #B3DM #1H





HOBBS OCD

NOV 24 2014

RECEIVED

Mewbourne Oil Company .

Lea County N.M.

Section 35-23S-34E Mad Dog 35 #B3DM State #1H

Mad Dog 35 B3DM State Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

20 September, 2014





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 B3DM State Com #1H
Project:	Lea County N.M.	TVD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 #B3DM State #1H	MD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Well:	Mad Dog 35 B3DM 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 #B3DM State #1H		
Site Position:		Northing:	462,236.40 usft
From:	Map	Easting:	773,827.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 3.712 N
		Longitude:	103° 26' 50.773 W
		Grid Convergence:	0.47 °

Well	Mad Dog 35 B3DM State Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 462,236.40 usft
	+E/-W	0.0 usft	Easting: 773,827.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 16' 3.712 N
		Longitude:	103° 26' 50.773 W
		Ground Level:	3,450.0 usft

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

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/13/2014	7.14	60.17	48,339

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	179.51

Survey Program	Date 9/20/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	10,700.0	Ves Gyro Survey #1 (Original Hole)	GyroFlex
10,815.0	15,980.0	MWD Survey #2 (Original Hole)	MWD
			Description
			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	0.65	250.62	100.0	-0.2	-0.5	0.2	0.65	0.65	0.00
200.0	0.57	250.78	200.0	-0.5	-1.5	0.5	0.08	-0.08	0.16
300.0	0.74	236.53	300.0	-1.1	-2.5	1.0	0.23	0.17	-14.25
400.0	0.59	227.86	400.0	-1.8	-3.5	1.7	0.18	-0.15	-8.67
500.0	0.40	218.64	500.0	-2.4	-4.1	2.3	0.21	-0.19	-9.22
600.0	0.35	168.76	600.0	-3.0	-4.2	2.9	0.32	-0.05	-49.88
700.0	0.59	154.91	700.0	-3.7	-3.9	3.7	0.26	0.24	-13.85
800.0	0.37	151.57	800.0	-4.5	-3.6	4.4	0.22	-0.22	-3.34



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 B3DM State Com #1H
Project:	Lea County N.M.	TVD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 #B3DM State #1H	MD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Well:	Mad Dog 35 B3DM 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	0.16	172.81	900.0	-4.9	-3.4	4.9	0.23	-0.21	21.24
1,000.0	0.14	147.14	1,000.0	-5.1	-3.3	5.1	0.07	-0.02	-25.67
1,100.0	0.18	23.73	1,100.0	-5.1	-3.2	5.1	0.28	0.04	-123.41
1,200.0	0.32	14.79	1,200.0	-4.7	-3.1	4.7	0.14	0.14	-8.94
1,300.0	0.43	20.19	1,300.0	-4.1	-2.9	4.0	0.12	0.11	5.40
1,400.0	0.49	4.15	1,400.0	-3.3	-2.7	3.3	0.14	0.06	-16.04
1,500.0	0.19	321.18	1,500.0	-2.7	-2.8	2.7	0.37	-0.30	-42.97
1,600.0	0.28	302.23	1,600.0	-2.5	-3.1	2.4	0.12	0.09	-18.95
1,700.0	0.83	304.41	1,700.0	-1.9	-3.9	1.9	0.55	0.55	2.18
1,800.0	0.67	310.54	1,799.9	-1.1	-4.9	1.1	0.18	-0.16	6.13
1,900.0	0.44	303.46	1,899.9	-0.5	-5.7	0.5	0.24	-0.23	-7.08
2,000.0	1.05	305.08	1,999.9	0.2	-6.8	-0.3	0.61	0.61	1.62
2,100.0	1.12	308.11	2,099.9	1.3	-8.3	-1.4	0.09	0.07	3.03
2,200.0	1.32	311.77	2,199.9	2.7	-9.9	-2.8	0.21	0.20	3.66
2,300.0	1.17	318.41	2,299.9	4.2	-11.4	-4.3	0.21	-0.15	6.64
2,400.0	1.54	332.42	2,399.8	6.2	-12.7	-6.3	0.49	0.37	14.01
2,500.0	1.72	340.74	2,499.8	8.8	-13.9	-8.9	0.30	0.18	8.32
2,600.0	1.97	349.01	2,599.7	11.9	-14.7	-12.0	0.36	0.25	8.27
2,700.0	1.98	358.38	2,699.7	15.3	-15.1	-15.4	0.32	0.01	9.37
2,800.0	2.51	19.98	2,799.6	19.1	-14.4	-19.2	0.99	0.53	21.60
2,900.0	3.18	29.62	2,899.5	23.6	-12.2	-23.7	0.82	0.67	9.64
3,000.0	2.85	27.64	2,999.3	28.2	-9.7	-28.3	0.35	-0.33	-1.98
3,100.0	2.69	20.23	3,099.2	32.6	-7.8	-32.6	0.39	-0.16	-7.41
3,200.0	2.26	11.22	3,199.1	36.7	-6.6	-36.8	0.58	-0.43	-9.01
3,300.0	1.80	3.21	3,299.1	40.2	-6.1	-40.3	0.54	-0.46	-8.01
3,400.0	2.02	15.28	3,399.0	43.5	-5.5	-43.5	0.46	0.22	12.07
3,500.0	1.74	357.39	3,499.0	46.7	-5.1	-46.7	0.65	-0.28	-17.89
3,600.0	1.63	3.98	3,598.9	49.6	-5.1	-49.7	0.22	-0.11	6.59
3,700.0	1.70	7.47	3,698.9	52.5	-4.8	-52.6	0.12	0.07	3.49
3,800.0	1.63	41.85	3,798.8	55.1	-3.7	-55.1	0.99	-0.07	34.38
3,900.0	1.47	59.42	3,898.8	56.8	-1.6	-56.8	0.50	-0.16	17.57
4,000.0	1.39	67.36	3,998.8	57.9	0.6	-57.9	0.21	-0.08	7.94
4,100.0	1.49	73.03	4,098.7	58.7	3.0	-58.7	0.17	0.10	5.67
4,200.0	1.37	84.33	4,198.7	59.2	5.4	-59.2	0.31	-0.12	11.30
4,300.0	2.00	96.18	4,298.7	59.2	8.3	-59.1	0.72	0.63	11.85
4,400.0	3.19	94.44	4,398.6	58.8	12.8	-58.7	1.19	1.19	-1.74
4,500.0	3.73	82.44	4,498.4	59.0	18.8	-58.8	0.90	0.54	-12.00
4,600.0	3.51	73.22	4,598.2	60.3	25.0	-60.1	0.62	-0.22	-9.22
4,700.0	3.37	66.30	4,698.0	62.4	30.6	-62.1	0.44	-0.14	-6.92
4,800.0	3.60	60.96	4,797.8	65.1	36.0	-64.7	0.40	0.23	-5.34
4,900.0	3.26	61.53	4,897.6	67.9	41.3	-67.6	0.34	-0.34	0.57
5,000.0	2.33	57.31	4,997.5	70.4	45.5	-70.0	0.95	-0.93	-4.22



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 B3DM State Com #1H
Project:	Lea County N.M.	TVD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 #B3DM State #1H	MD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Well:	Mad Dog 35 B3DM 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	2.04	56.40	5,097.4	72.5	48.7	-72.1	0.29	-0.29	-0.91
5,200.0	1.86	52.09	5,197.4	74.5	51.5	-74.0	0.23	-0.18	-4.31
5,300.0	1.93	48.18	5,297.3	76.6	54.0	-76.1	0.15	0.07	-3.91
5,400.0	1.68	48.76	5,397.3	78.7	56.3	-78.2	0.25	-0.25	0.58
5,500.0	2.20	56.49	5,497.2	80.7	59.0	-80.2	0.58	0.52	7.73
5,600.0	1.98	47.95	5,597.2	82.9	61.9	-82.4	0.38	-0.22	-8.54
5,700.0	1.67	41.63	5,697.1	85.2	64.2	-84.6	0.37	-0.31	-6.32
5,800.0	1.77	48.81	5,797.1	87.3	66.3	-86.7	0.24	0.10	7.18
5,900.0	1.67	41.82	5,897.0	89.4	68.4	-88.8	0.23	-0.10	-6.99
6,000.0	1.52	44.72	5,997.0	91.4	70.4	-90.8	0.17	-0.15	2.90
6,100.0	1.82	39.56	6,096.9	93.6	72.3	-92.9	0.34	0.30	-5.16
6,200.0	1.91	40.11	6,196.9	96.1	74.4	-95.4	0.09	0.09	0.55
6,300.0	1.54	34.65	6,296.8	98.4	76.2	-97.8	0.40	-0.37	-5.46
6,400.0	1.59	36.77	6,396.8	100.7	77.8	-100.0	0.08	0.05	2.12
6,500.0	1.69	37.05	6,496.8	102.9	79.5	-102.3	0.10	0.10	0.28
6,600.0	1.46	40.07	6,596.7	105.1	81.2	-104.4	0.24	-0.23	3.02
6,700.0	1.43	44.36	6,696.7	107.0	82.9	-106.2	0.11	-0.03	4.29
6,800.0	1.47	45.12	6,796.7	108.8	84.7	-108.0	0.04	0.04	0.76
6,900.0	1.80	42.81	6,896.6	110.8	86.7	-110.1	0.34	0.33	-2.31
7,000.0	1.53	48.04	6,996.6	112.9	88.8	-112.1	0.31	-0.27	5.23
7,100.0	1.29	49.37	7,096.5	114.5	90.6	-113.7	0.24	-0.24	1.33
7,200.0	1.61	54.90	7,196.5	116.0	92.6	-115.2	0.35	0.32	5.53
7,300.0	1.38	49.63	7,296.5	117.6	94.7	-116.8	0.27	-0.23	-5.27
7,400.0	1.43	52.14	7,396.5	119.2	96.6	-118.3	0.08	0.05	2.51
7,500.0	1.66	65.93	7,496.4	120.5	98.9	-119.7	0.44	0.23	13.79
7,600.0	1.38	89.00	7,596.4	121.1	101.4	-120.3	0.67	-0.28	23.07
7,700.0	0.81	84.09	7,696.4	121.2	103.3	-120.3	0.58	-0.57	-4.91
7,800.0	0.54	87.03	7,796.4	121.3	104.5	-120.4	0.27	-0.27	2.94
7,900.0	0.75	103.25	7,896.3	121.2	105.6	-120.3	0.28	0.21	16.22
8,000.0	0.66	122.81	7,996.3	120.7	106.7	-119.8	0.26	-0.09	19.56
8,100.0	0.91	164.85	8,096.3	119.7	107.4	-118.7	0.61	0.25	42.04
8,200.0	1.21	151.03	8,196.3	118.0	108.1	-117.0	0.39	0.30	-13.82
8,300.0	1.37	168.14	8,296.3	115.9	108.9	-114.9	0.42	0.16	17.11
8,400.0	1.49	159.72	8,396.3	113.5	109.6	-112.5	0.24	0.12	-8.42
8,500.0	1.09	174.97	8,496.2	111.3	110.1	-110.4	0.52	-0.40	15.25
8,600.0	1.13	212.08	8,596.2	109.5	109.7	-108.6	0.71	0.04	37.11
8,700.0	0.84	248.55	8,696.2	108.4	108.5	-107.5	0.68	-0.29	36.47
8,800.0	1.15	238.21	8,796.2	107.6	106.9	-106.7	0.36	0.31	-10.34
8,900.0	2.03	262.55	8,896.2	106.9	104.3	-106.0	1.09	0.88	24.34
9,000.0	2.15	281.36	8,996.1	107.0	100.7	-106.1	0.69	0.12	18.81
9,100.0	3.00	285.89	9,096.0	108.1	96.4	-107.3	0.87	0.85	4.53
9,200.0	3.39	284.54	9,195.8	109.6	91.0	-108.8	0.40	0.39	-1.35
9,300.0	2.55	276.06	9,295.7	110.5	85.9	-109.8	0.95	-0.84	-8.48



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 B3DM State Com #1H
Project:	Lea County N.M.	TVD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 #B3DM State #1H	MD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Well:	Mad Dog 35 B3DM 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	1.43	258.64	9,395.6	110.5	82.5	-109.8	1.26	-1.12	-17.42
9,500.0	0.30	222.62	9,495.6	110.1	81.1	-109.4	1.20	-1.13	-36.02
9,600.0	0.60	216.14	9,595.6	109.5	80.6	-108.8	0.30	0.30	-6.48
9,700.0	0.32	259.62	9,695.6	109.0	80.0	-108.3	0.43	-0.28	43.48
9,800.0	0.22	147.87	9,795.6	108.8	79.8	-108.1	0.45	-0.10	-111.75
9,900.0	0.32	179.86	9,895.6	108.3	79.9	-107.7	0.18	0.10	31.99
10,000.0	0.13	214.63	9,995.6	108.0	79.9	-107.3	0.23	-0.19	34.77
10,100.0	0.40	194.94	10,095.6	107.5	79.7	-106.8	0.28	0.27	-19.69
10,200.0	0.25	274.71	10,195.6	107.2	79.4	-106.5	0.43	-0.15	79.77
10,300.0	0.32	126.30	10,295.6	107.1	79.4	-106.4	0.55	0.07	-148.41
10,400.0	0.35	188.93	10,395.6	106.6	79.6	-105.9	0.35	0.03	62.63
10,500.0	0.61	219.81	10,495.6	105.9	79.2	-105.2	0.36	0.26	30.88
10,600.0	0.30	182.25	10,595.6	105.2	78.9	-104.5	0.41	-0.31	-37.56
10,700.0	0.52	275.84	10,695.6	105.0	78.4	-104.3	0.62	0.22	93.59
10700' MD VES Gyro									
10,815.0	4.10	197.10	10,810.5	101.1	76.7	-100.5	3.51	3.11	-68.47
10,847.0	7.80	202.30	10,842.3	98.0	75.5	-97.4	11.67	11.56	16.25
10,879.0	10.40	199.30	10,873.9	93.3	73.7	-92.7	8.26	8.13	-9.38
10,910.0	13.80	195.50	10,904.2	87.1	71.8	-86.5	11.26	10.97	-12.26
10,942.0	15.90	195.80	10,935.1	79.2	69.6	-78.6	6.57	6.56	0.94
10,974.0	18.00	189.50	10,965.8	70.1	67.6	-69.5	8.71	6.56	-19.69
11,006.0	21.40	185.10	10,995.9	59.4	66.3	-58.8	11.58	10.63	-13.75
11,038.0	24.70	181.90	11,025.3	46.9	65.5	-46.3	11.03	10.31	-10.00
11,069.0	27.80	182.40	11,053.1	33.2	65.0	-32.6	10.03	10.00	1.61
11,101.0	31.20	184.70	11,081.0	17.5	64.0	-16.9	11.20	10.63	7.19
11,133.0	33.90	187.70	11,107.9	0.4	62.1	0.2	9.83	8.44	9.38
11,164.0	37.50	189.80	11,133.1	-17.5	59.4	18.0	12.27	11.61	6.77
11,196.0	42.20	190.00	11,157.7	-37.7	55.8	38.2	14.69	14.69	0.63
11,228.0	46.80	190.40	11,180.5	-59.8	51.9	60.2	14.40	14.38	1.25
11,260.0	49.60	190.40	11,201.8	-83.2	47.6	83.6	8.75	8.75	0.00
11,291.0	51.70	190.00	11,221.5	-106.8	43.3	107.2	6.85	6.77	-1.29
11,323.0	54.00	188.60	11,240.8	-132.0	39.2	132.3	7.99	7.19	-4.38
11,355.0	56.10	187.00	11,259.1	-158.0	35.6	158.3	7.74	6.56	-5.00
11,386.0	57.90	185.20	11,276.0	-183.8	32.9	184.1	7.58	5.81	-5.81
11,418.0	60.10	183.60	11,292.5	-211.2	30.8	211.4	8.10	6.88	-5.00
11,450.0	62.50	182.40	11,307.9	-239.2	29.3	239.4	8.19	7.50	-3.75
11,482.0	66.40	181.80	11,321.7	-268.0	28.3	268.3	12.30	12.19	-1.88
11,514.0	70.60	181.20	11,333.4	-297.8	27.5	298.0	13.24	13.13	-1.88
11,546.0	73.80	181.50	11,343.2	-328.3	26.8	328.5	10.04	10.00	0.94
11,578.0	76.40	181.00	11,351.4	-359.2	26.1	359.4	8.26	8.13	-1.56
11,610.0	78.90	181.70	11,358.2	-390.4	25.4	390.6	8.10	7.81	2.19
11,641.0	81.10	181.90	11,363.6	-420.9	24.4	421.1	7.13	7.10	0.65



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 B3DM State Com #1H
Project:	Lea County N.M.	TVD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 #B3DM State #1H	MD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Well:	Mad Dog 35 B3DM 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)
11,673.0	85.30	181.10	11,367.4	-452.7	23.6	452.9	13.36	13.13	-2.50
11,703.8	88.71	181.32	11,369.0	-483.5	22.9	483.6	11.07	11.05	0.70
LP Mad Dog 35 B3DM									
11,730.0	91.60	181.50	11,369.0	-509.6	22.3	509.8	11.07	11.05	0.70
11,761.0	91.60	181.00	11,368.1	-540.6	21.6	540.8	1.61	0.00	-1.61
11,856.0	90.70	179.70	11,366.2	-635.6	21.0	635.7	1.66	-0.95	-1.37
11,950.0	91.00	179.30	11,364.8	-729.6	21.8	729.7	0.53	0.32	-0.43
12,045.0	92.10	180.50	11,362.2	-824.5	22.0	824.7	1.71	1.16	1.26
12,140.0	89.00	180.90	11,361.3	-919.5	20.8	919.6	3.29	-3.26	0.42
12,235.0	86.80	179.60	11,364.8	-1,014.4	20.4	1,014.6	2.69	-2.32	-1.37
12,330.0	90.90	180.50	11,366.7	-1,109.4	20.4	1,109.5	4.42	4.32	0.95
12,425.0	90.10	180.80	11,365.9	-1,204.4	19.3	1,204.5	0.90	-0.84	0.32
12,520.0	90.30	181.70	11,365.5	-1,299.4	17.2	1,299.5	0.97	0.21	0.95
12,615.0	92.00	181.40	11,363.6	-1,394.3	14.6	1,394.4	1.82	1.79	-0.32
12,711.0	89.10	181.60	11,362.7	-1,490.2	12.1	1,490.3	3.03	-3.02	0.21
12,806.0	89.30	180.40	11,364.0	-1,585.2	10.5	1,585.3	1.28	0.21	-1.26
12,901.0	89.80	179.60	11,364.8	-1,680.2	10.5	1,680.2	0.99	0.53	-0.84
12,996.0	89.10	179.20	11,365.7	-1,775.2	11.5	1,775.2	0.85	-0.74	-0.42
13,090.0	90.50	178.80	11,366.0	-1,869.2	13.1	1,869.2	1.55	1.49	-0.43
13,186.0	87.80	176.00	11,367.4	-1,965.1	17.4	1,965.1	4.05	-2.81	-2.92
13,249.0	89.40	175.80	11,369.0	-2,027.9	22.0	2,028.0	2.56	2.54	-0.32
13,281.0	88.20	175.90	11,369.7	-2,059.8	24.3	2,059.9	3.76	-3.75	0.31
13,313.0	87.20	175.80	11,370.9	-2,091.7	26.6	2,091.8	3.14	-3.13	-0.31
13,344.0	88.70	175.90	11,372.0	-2,122.6	28.8	2,122.7	4.85	4.84	0.32
13,376.0	91.60	176.20	11,372.0	-2,154.5	31.0	2,154.7	9.11	9.06	0.94
13,471.0	92.70	176.40	11,368.4	-2,249.2	37.2	2,249.5	1.18	1.16	0.21
13,566.0	92.50	175.90	11,364.1	-2,343.9	43.5	2,344.2	0.57	-0.21	-0.53
13,661.0	89.00	176.50	11,362.8	-2,438.7	49.8	2,439.0	3.74	-3.68	0.63
13,755.0	93.90	177.80	11,360.5	-2,532.5	54.5	2,532.9	5.39	5.21	1.38
13,849.0	91.60	178.80	11,356.0	-2,626.4	57.3	2,626.7	2.67	-2.45	1.06
13,944.0	92.00	179.40	11,353.0	-2,721.3	58.8	2,721.7	0.76	0.42	0.63
14,039.0	90.90	182.10	11,350.6	-2,816.2	57.5	2,816.6	3.07	-1.16	2.84
14,133.0	91.20	182.60	11,348.8	-2,910.2	53.7	2,910.5	0.62	0.32	0.53
14,228.0	91.80	182.40	11,346.4	-3,005.0	49.5	3,005.3	0.67	0.63	-0.21
14,323.0	89.50	182.00	11,345.3	-3,099.9	45.9	3,100.2	2.46	-2.42	-0.42
14,417.0	92.00	186.00	11,344.0	-3,193.7	39.3	3,193.9	5.02	2.66	4.26
14,512.0	89.40	185.80	11,342.9	-3,288.2	29.6	3,288.3	2.74	-2.74	-0.21
14,606.0	91.90	186.00	11,341.8	-3,381.7	19.9	3,381.7	2.67	2.66	0.21
14,701.0	90.70	186.20	11,339.7	-3,476.1	9.8	3,476.0	1.28	-1.26	0.21
14,795.0	91.40	187.70	11,337.9	-3,569.4	-1.6	3,569.2	1.76	0.74	1.60
14,858.0	91.40	186.80	11,336.4	-3,631.9	-9.5	3,631.6	1.43	0.00	-1.43
14,890.0	90.90	185.40	11,335.8	-3,663.7	-12.9	3,663.4	4.64	-1.56	-4.38
14,922.0	91.70	184.60	11,335.0	-3,695.5	-15.7	3,695.3	3.54	2.50	-2.50



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 B3DM State Com #1H
Project:	Lea County N.M.	TVD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 #B3DM State #1H	MD Reference:	3450 + 20 @ 3470.0usft (Patterson #80)
Well:	Mad Dog 35 B3DM 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)
14,953.0	92.70	185.30	11,333.8	-3,726.4	-18.4	3,726.1	3.94	3.23	2.26
14,979.0	90.70	184.60	11,333.1	-3,752.3	-20.6	3,752.0	8.15	-7.69	-2.69
15,010.0	88.00	183.90	11,333.4	-3,783.2	-22.9	3,782.9	9.00	-8.71	-2.26
15,042.0	86.80	184.00	11,334.9	-3,815.1	-25.1	3,814.7	3.76	-3.75	0.31
15,074.0	85.50	183.10	11,337.0	-3,847.0	-27.1	3,846.6	4.94	-4.06	-2.81
15,106.0	86.50	181.00	11,339.3	-3,878.9	-28.2	3,878.5	7.25	3.13	-6.56
15,131.0	86.80	179.60	11,340.7	-3,903.8	-28.4	3,903.4	5.72	1.20	-5.60
15,169.0	86.60	179.30	11,342.9	-3,941.7	-28.0	3,941.4	0.95	-0.53	-0.79
15,201.0	89.40	179.30	11,344.0	-3,973.7	-27.6	3,973.3	8.75	8.75	0.00
15,232.0	89.70	178.60	11,344.3	-4,004.7	-27.0	4,004.3	2.46	0.97	-2.26
15,295.0	92.00	177.30	11,343.3	-4,067.7	-24.8	4,067.3	4.19	3.65	-2.06
15,390.0	92.30	175.70	11,339.8	-4,162.4	-19.0	4,162.1	1.71	0.32	-1.68
15,484.0	92.40	175.80	11,335.9	-4,256.1	-12.0	4,255.8	0.15	0.11	0.11
15,580.0	92.40	175.20	11,331.9	-4,351.7	-4.5	4,351.5	0.62	0.00	-0.63
15,675.0	92.00	175.10	11,328.2	-4,446.3	3.5	4,446.2	0.43	-0.42	-0.11
15,770.0	92.00	174.20	11,324.9	-4,540.8	12.4	4,540.8	0.95	0.00	-0.95
15,865.0	88.00	174.50	11,324.9	-4,635.3	21.7	4,635.3	4.22	-4.21	0.32
15,932.0	88.10	173.80	11,327.2	-4,701.9	28.6	4,702.0	1.05	0.15	-1.04
15,980.0	88.10	173.80	11,328.8	-4,749.6	33.7	4,749.8	0.00	0.00	0.00

15980' MD Projected to Bit - PBHL Mad Dog 35 #B3DM #1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,700.0	10,695.6	105.0	78.4	10700' MD VES Gyro
15,980.0	11,328.8	-4,749.6	33.7	15980' MD Projected to Bit