

Results of Directional Survey

API number:	30-025-40982		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	MAD DOG 35 CN STATE COM # 1H

surface	ULSTR:	C	35	T	23S	R	34E
				150	FNL	1980	FWL

BH Loc	ULSTR:	N	35	T	23S	R	34E
16100	MD	11363.7	TVD	342	FSL	2332	FWL
				4938	FNL		

Top Perf/OH	ULSTR:	C	35	T	23S	R	34E
11816	MD	11431.8	TVD	673	FNL	2011	FWL

Bot Perf/OH	ULSTR:	N	35	T	23S	R	34E
16069	MD	11364.6	TVD	373	FSL	2332	FWL
				4907	FNL		

	MD	N/S	E/W	VD
	11786	-492.50	31.40	11430.7
TOP PERFS/OH	11816	-522.50	31.12	11431.83
	11818	-524.50	31.10	11431.90
	16050	-4738.00	352.40	11365.20
BOT PERFS/OH	16069	-4757.00	352.13	11364.63
	16100	-4788.00	351.70	11363.70

NEXT TO LAST	16050	-4738.00	352.40	11365.20
LAST READING	16100	-4788.00	351.70	11363.70
TD	16100	-4788.00	351.70	11363.70

Surface Location	150	FN	1980	FW
Projected BHL	4938	FN	2332	FW
Location of				
Top Perfs/OH	673	FN	2011	FW
Bottom Perfs/OH	4907	FN	2332	FW

SUMMARY of Subsurface Locations

Surface Location	C-35-23S-34E	150	FN	1980	FW	Vert. Depth
Top Perfs/OH	C-35-23S-34E	673	FN	2011	FW	11431.83
Bottom Perfs/OH	N-35-23S-34E	4907	FN	2332	FW	11364.63
Projected TD	N-35-23S-34E	4938	FN	2332	FW	11363.70



MOBES OCD
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Company: Mewbourne Oil Company
Lease/Well: Mad Dog 35 CN State Com/No. 001H
Location: S35 T23s R34e
Rig Name: Trinidad 110
State/County: New Mexico/Lea
Latitude: 32.27, Longitude: -103.44
GRID North is 0.48 Degrees East of True North
VS-Azi: 0.00 Degrees



RKB : 17 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ... state com #1h gyro survey.ut

Minimum Curvature Method

Report Date/Time: 6/7/2013 / 13:34

Vaughn Energy Services

Gardendale, TX 79758

(432) 563-5444

Surveyor: Dustin Wedel

Mad Dog 35 CN State Com No. 001H / API 30-025-40982

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	0.22	158.29	100.00	-0.18	0.07	-0.18	0.19	158.29	0.22
200.00	0.47	285.99	200.00	-0.24	-0.26	-0.24	0.35	227.51	0.63
300.00	0.68	250.55	299.99	-0.32	-1.22	-0.32	1.26	255.23	0.40
400.00	1.13	287.26	399.98	-0.23	-2.72	-0.23	2.73	265.24	0.71
500.00	1.62	265.75	499.95	-0.04	-5.08	-0.04	5.08	269.57	0.71
600.00	1.68	274.32	599.91	-0.03	-7.96	-0.03	7.96	269.76	0.25
700.00	2.29	265.42	699.85	-0.08	-11.41	-0.08	11.41	269.59	0.68
800.00	2.28	267.04	799.77	-0.34	-15.39	-0.34	15.39	268.72	0.07
900.00	2.17	275.59	899.70	-0.26	-19.27	-0.26	19.27	269.22	0.35
1000.00	1.61	276.32	999.64	0.08	-22.55	0.08	22.55	270.20	0.57
1100.00	1.56	282.78	1099.60	0.53	-25.27	0.53	25.27	271.21	0.18
1200.00	1.30	281.76	1199.57	1.06	-27.70	1.06	27.72	272.20	0.26
1300.00	1.34	290.93	1299.55	1.71	-29.91	1.71	29.95	273.28	0.21
1400.00	1.09	304.65	1399.52	2.67	-31.78	2.67	31.89	274.81	0.38
1500.00	1.05	311.45	1499.51	3.82	-33.25	3.82	33.47	276.56	0.13
1600.00	1.34	302.72	1599.48	5.06	-34.92	5.06	35.29	278.25	0.34
1700.00	0.71	301.48	1699.47	6.02	-36.44	6.02	36.93	279.38	0.63
1800.00	1.40	303.68	1799.45	7.02	-37.98	7.02	38.63	280.47	0.69

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	1.56	322.73	1899.42	8.78	-39.82	8.78	40.78	282.43	0.51
2000.00	1.54	330.14	1999.38	11.03	-41.32	11.03	42.76	284.95	0.20
2100.00	1.63	335.25	2099.34	13.49	-42.58	13.49	44.67	287.58	0.16
2200.00	2.21	336.68	2199.29	16.55	-43.94	16.55	46.95	290.64	0.58
2300.00	2.52	347.83	2299.20	20.46	-45.17	20.46	49.59	294.38	0.55
2400.00	2.77	347.00	2399.10	24.97	-46.17	24.97	52.49	298.40	0.25
2500.00	2.87	352.90	2498.97	29.80	-47.02	29.80	55.67	302.36	0.31
2600.00	2.79	353.52	2598.85	34.70	-47.61	34.70	58.91	306.09	0.08
2700.00	2.87	2.25	2698.73	39.63	-47.78	39.63	62.08	309.67	0.44
2800.00	2.85	11.69	2798.61	44.57	-47.18	44.57	64.91	313.37	0.47
2900.00	2.81	5.98	2898.48	49.45	-46.42	49.45	67.82	316.81	0.29
3000.00	3.04	14.33	2998.35	54.45	-45.51	54.45	70.97	320.11	0.48
3100.00	3.06	24.54	3098.21	59.44	-43.75	59.44	73.81	323.65	0.54
3200.00	3.18	24.63	3198.07	64.39	-41.48	64.39	76.60	327.21	0.13
3300.00	3.44	21.22	3297.90	69.72	-39.24	69.72	80.00	330.63	0.33
3400.00	3.64	30.72	3397.71	75.25	-36.53	75.25	83.64	334.10	0.62
3500.00	2.97	20.50	3497.54	80.41	-34.00	80.41	87.30	337.08	0.89
3600.00	2.41	28.05	3597.43	84.69	-32.10	84.69	90.57	339.24	0.66
3700.00	2.04	27.84	3697.36	88.12	-30.28	88.12	93.18	341.04	0.37
3800.00	2.39	38.68	3797.28	91.33	-28.14	91.33	95.57	342.87	0.55
3900.00	3.67	44.28	3897.14	95.25	-24.60	95.25	98.38	345.52	1.31
4000.00	3.85	54.57	3996.93	99.49	-19.63	99.49	101.41	348.84	0.70
4100.00	4.14	54.59	4096.68	103.53	-13.96	103.53	104.46	352.32	0.29
4200.00	3.75	53.84	4196.45	107.55	-8.37	107.55	107.87	355.55	0.39
4300.00	3.88	59.98	4296.22	111.17	-2.81	111.17	111.20	358.55	0.43
4400.00	4.90	59.95	4395.93	115.00	3.82	115.00	115.06	1.90	1.02
4500.00	5.74	61.16	4495.50	119.55	11.90	119.55	120.14	5.68	0.85
4600.00	6.22	68.80	4594.96	123.92	21.33	123.92	125.74	9.76	0.93
4700.00	6.32	74.43	4694.36	127.36	31.68	127.36	131.24	13.97	0.62
4800.00	6.27	67.88	4793.76	130.89	42.04	130.89	137.48	17.81	0.72
4900.00	5.29	64.19	4893.25	134.96	51.25	134.96	144.36	20.80	1.05
5000.00	3.37	61.09	4992.96	138.39	57.98	138.39	150.04	22.73	1.93
5100.00	2.16	56.57	5092.84	140.85	62.12	140.85	153.94	23.80	1.23
5200.00	1.92	47.66	5192.78	143.01	64.93	143.01	157.06	24.42	0.40
5300.00	1.74	52.85	5292.72	145.06	67.38	145.06	159.94	24.92	0.24
5400.00	1.61	39.00	5392.68	147.07	69.48	147.07	162.65	25.29	0.43
5500.00	1.57	41.20	5492.64	149.19	71.26	149.19	165.34	25.53	0.07
5600.00	1.67	35.95	5592.60	151.40	73.02	151.40	168.09	25.75	0.18
5700.00	1.15	35.60	5692.57	153.39	74.46	153.39	170.51	25.89	0.52

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	0.50	10.06	5792.56	154.63	75.12	154.63	171.91	25.91	0.73
5900.00	0.51	316.37	5892.56	155.38	74.89	155.38	172.49	25.73	0.46
6000.00	0.93	335.69	5992.55	156.45	74.24	156.45	173.17	25.39	0.48
6100.00	0.90	342.75	6092.54	157.94	73.67	157.94	174.28	25.01	0.12
6200.00	1.05	322.82	6192.52	159.42	72.89	159.42	175.29	24.57	0.37
6300.00	0.80	348.07	6292.51	160.83	72.19	160.83	176.29	24.17	0.47
6400.00	0.73	348.80	6392.50	162.15	71.92	162.15	177.38	23.92	0.07
6500.00	0.74	338.51	6492.49	163.38	71.56	163.38	178.36	23.65	0.13
6600.00	0.80	359.46	6592.49	164.67	71.32	164.67	179.46	23.42	0.29
6700.00	0.66	345.79	6692.48	165.93	71.17	165.93	180.55	23.22	0.22
6800.00	0.75	335.52	6792.47	167.09	70.76	167.09	181.45	22.95	0.16
6900.00	0.64	299.15	6892.46	167.96	70.00	167.96	181.96	22.62	0.45
7000.00	0.54	306.84	6992.46	168.51	69.13	168.51	182.14	22.31	0.12
7100.00	0.95	286.21	7092.45	169.03	67.95	169.03	182.18	21.90	0.48
7200.00	0.77	318.86	7192.44	169.77	66.72	169.77	182.41	21.45	0.51
7300.00	0.88	280.04	7292.43	170.41	65.52	170.41	182.57	21.03	0.56
7400.00	0.52	231.54	7392.42	170.26	64.40	170.26	182.03	20.72	0.66
7500.00	0.77	268.51	7492.42	169.95	63.37	169.95	181.38	20.45	0.48
7600.00	1.26	233.62	7592.40	169.29	61.81	169.29	180.22	20.06	0.76
7700.00	1.27	228.70	7692.38	167.91	60.10	167.91	178.34	19.69	0.11
7800.00	1.34	230.45	7792.35	166.43	58.37	166.43	176.37	19.32	0.08
7900.00	0.72	229.92	7892.33	165.28	56.98	165.28	174.83	19.02	0.62
8000.00	1.27	274.77	7992.32	164.97	55.40	164.97	174.02	18.56	0.91
8100.00	1.38	270.97	8092.29	165.08	53.09	165.08	173.41	17.83	0.14
8200.00	1.31	277.93	8192.27	165.26	50.76	165.26	172.88	17.07	0.18
8300.00	1.22	275.59	8292.24	165.52	48.57	165.52	172.50	16.35	0.10
8400.00	1.61	272.58	8392.21	165.69	46.11	165.69	171.98	15.55	0.39
8500.00	1.14	259.37	8492.18	165.57	43.73	165.57	171.24	14.80	0.56
8600.00	1.16	248.83	8592.16	165.02	41.81	165.02	170.23	14.22	0.21
8700.00	1.50	247.08	8692.13	164.15	39.67	164.15	168.87	13.59	0.35
8800.00	1.30	245.73	8792.10	163.17	37.43	163.17	167.41	12.92	0.21
8900.00	1.16	212.63	8892.08	161.85	35.85	161.85	165.77	12.49	0.71
9000.00	1.02	203.53	8992.07	160.18	34.95	160.18	163.95	12.31	0.22
9100.00	1.00	178.42	9092.05	158.49	34.61	158.49	162.23	12.32	0.44
9200.00	0.67	189.88	9192.04	157.04	34.54	157.04	160.79	12.40	0.38
9300.00	1.66	193.22	9292.02	155.06	34.11	155.06	158.77	12.41	0.99
9400.00	2.07	212.85	9391.97	152.14	32.80	152.14	155.63	12.17	0.75
9500.00	1.94	226.44	9491.90	149.45	30.59	149.45	152.55	11.57	0.49
9600.00	1.11	242.65	9591.87	147.84	28.50	147.84	150.56	10.91	0.93

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	2.00	250.48	9691.83	146.81	26.00	146.81	149.09	10.04	0.92
9800.00	1.08	257.09	9791.79	146.02	23.43	146.02	147.88	9.12	0.94
9900.00	1.11	257.77	9891.78	145.60	21.57	145.60	147.19	8.43	0.03
10000.00	1.07	244.93	9991.76	145.00	19.78	145.00	146.34	7.77	0.25
10100.00	2.13	245.48	10091.72	143.83	17.24	143.83	144.86	6.83	1.06
10200.00	3.01	254.79	10191.62	142.37	13.01	142.37	142.97	5.22	0.97
10300.00	3.41	244.07	10291.46	140.38	7.81	140.38	140.60	3.18	0.72
10400.00	3.32	235.53	10391.29	137.44	2.74	137.44	137.47	1.14	0.51
10500.00	3.42	222.49	10491.12	133.60	-1.66	133.60	133.61	359.29	0.77
10600.00	2.26	211.09	10590.99	129.71	-4.70	129.71	129.80	357.93	1.28
10700.00	2.65	210.57	10690.90	126.03	-6.89	126.03	126.22	356.87	0.40
10793.00	3.03	227.39	10783.79	122.52	-9.79	122.52	122.91	355.43	0.98

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Mewbourne Oil Co

Lea County, NM

Sec 35, T23S, R34E

Mad Dog 35 CN State Com 1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

24 June, 2013



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Mad Dog 35 CN State Com 1H
Project:	Lea County, NM	TVD Reference:	WELL @ 3469.0usft (Trinidad #110)
Site:	Sec 35, T23S, R34E	MD Reference:	WELL @ 3469.0usft (Trinidad #110)
Well:	Mad Dog 35 CN State Com 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

HOEBS OGD

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

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Site	Sec 35, T23S, R34E
Site Position:	
From:	Map
Position Uncertainty:	0.0 usft
Northing:	462,286.45 usft
Easting:	775,358.83 usft
Slot Radius:	13-3/16 "
Latitude:	32° 16' 4.082 N
Longitude:	103° 26' 32.929 W
Grid Convergence:	0.48 °

Well	Mad Dog 35 CN State Com 1H
Well Position	
+N/-S	0.0 usft
+E/-W	0.0 usft
Position Uncertainty	0.0 usft
Northing:	462,286.45 usft
Easting:	775,358.83 usft
Wellhead Elevation:	usft
Latitude:	32° 16' 4.082 N
Longitude:	103° 26' 32.929 W
Ground Level:	3,449.0 usft

Wellbore	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/24/2013	7.29	60.20	48,462

Design	Wellbore #1
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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	175.57

Survey Program		Date	6/24/2013	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	10,793.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
10,873.0	16,100.0	MWD (Wellbore #1)	MWD default	MWD - Standard

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	0.22	158.29	100.0	-0.2	0.1	0.2	0.22	0.22	0.00
	200.0	0.47	285.99	200.0	-0.2	-0.3	0.2	0.63	0.25	127.70
	300.0	0.68	250.55	300.0	-0.3	-1.2	0.2	0.40	0.21	-35.44
	400.0	1.13	287.26	400.0	-0.2	-2.7	0.0	0.71	0.45	36.71
	500.0	1.62	265.75	500.0	0.0	-5.1	-0.3	0.70	0.49	-21.51
	600.0	1.68	274.32	599.9	0.0	-7.9	-0.6	0.25	0.06	8.57
	700.0	2.29	265.42	699.9	-0.1	-11.4	-0.8	0.68	0.61	-8.90
	800.0	2.28	267.04	799.8	-0.4	-15.4	-0.8	0.07	-0.01	1.62
	900.0	2.17	275.59	899.7	-0.3	-19.2	-1.2	0.35	-0.11	8.55

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Company: Mewbourne Oil Co
 Project: Lea County, NM
 Site: Sec 35, T23S, R34E
 Well: Mad Dog 35 CN State Com 1H
 Wellbore: Wellbore #1
 Design: Wellbore #1

Local Co-ordinate Reference: Well Mad Dog 35 CN State Com 1H
 TVD Reference: WELL @ 3469.0usft (Trinidad #110)
 MD Reference: WELL @ 3469.0usft (Trinidad #110)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

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	1.61	276.32	999.6	0.1	-22.5	-1.8	0.56	-0.56	0.73
1,100.0	1.56	282.78	1,099.6	0.5	-25.2	-2.5	0.19	-0.05	6.46
1,200.0	1.30	281.76	1,199.6	1.1	-27.7	-3.2	0.26	-0.26	-1.02
1,300.0	1.34	290.93	1,299.5	1.7	-29.9	-4.0	0.21	0.04	9.17
1,400.0	1.09	304.65	1,399.5	2.7	-31.8	-5.1	0.38	-0.25	13.72
1,500.0	1.05	311.45	1,499.5	3.8	-33.2	-6.4	0.13	-0.04	6.80
1,600.0	1.34	302.72	1,599.5	5.1	-34.9	-7.7	0.34	0.29	-8.73
1,700.0	0.71	301.48	1,699.5	6.0	-36.4	-8.8	0.63	-0.63	-1.24
1,800.0	1.40	303.68	1,799.5	7.0	-37.9	-9.9	0.69	0.69	2.20
1,900.0	1.56	322.73	1,899.4	8.8	-39.8	-11.8	0.51	0.16	19.05
2,000.0	1.54	330.14	1,999.4	11.0	-41.3	-14.2	0.20	-0.02	7.41
2,100.0	1.63	335.25	2,099.3	13.5	-42.5	-16.7	0.17	0.09	5.11
2,200.0	2.21	336.68	2,199.3	16.5	-43.9	-19.9	0.58	0.58	1.43
2,300.0	2.52	347.83	2,299.2	20.5	-45.1	-23.9	0.55	0.31	11.15
2,400.0	2.77	347.00	2,399.1	25.0	-46.1	-28.4	0.25	0.25	-0.83
2,500.0	2.87	352.90	2,499.0	29.8	-47.0	-33.3	0.31	0.10	5.90
2,600.0	2.79	353.52	2,598.9	34.7	-47.6	-38.3	0.09	-0.08	0.62
2,700.0	2.87	2.25	2,698.7	39.6	-47.8	-43.2	0.44	0.08	8.73
2,800.0	2.85	11.69	2,798.6	44.6	-47.2	-48.1	0.47	-0.02	9.44
2,900.0	2.81	5.98	2,898.5	49.4	-46.4	-52.9	0.28	-0.04	-5.71
3,000.0	3.04	14.33	2,998.4	54.4	-45.5	-57.8	0.48	0.23	8.35
3,100.0	3.06	24.54	3,098.2	59.4	-43.7	-62.6	0.54	0.02	10.21
3,200.0	3.18	24.63	3,198.1	64.4	-41.5	-67.4	0.12	0.12	0.09
3,300.0	3.44	21.22	3,297.9	69.7	-39.2	-72.5	0.33	0.26	-3.41
3,400.0	3.64	30.72	3,397.7	75.2	-36.5	-77.8	0.62	0.20	9.50
3,500.0	2.97	20.50	3,497.5	80.4	-34.0	-82.8	0.89	-0.67	-10.22
3,600.0	2.41	28.05	3,597.4	84.7	-32.1	-86.9	0.66	-0.56	7.55
3,700.0	2.04	27.84	3,697.4	88.1	-30.3	-90.2	0.37	-0.37	-0.21
3,800.0	2.39	38.68	3,797.3	91.3	-28.1	-93.2	0.54	0.35	10.84
3,900.0	3.67	44.28	3,897.1	95.2	-24.6	-96.8	1.31	1.28	5.60
4,000.0	3.85	54.57	3,996.9	99.5	-19.6	-100.7	0.70	0.18	10.29
4,100.0	4.14	54.59	4,096.7	103.5	-13.9	-104.3	0.29	0.29	0.02
4,200.0	3.75	53.84	4,196.4	107.5	-8.4	-107.8	0.39	-0.39	-0.75
4,300.0	3.88	59.98	4,296.2	111.1	-2.8	-111.0	0.43	0.13	6.14
4,400.0	4.90	59.95	4,395.9	115.0	3.8	-114.3	1.02	1.02	-0.03
4,500.0	5.74	61.16	4,495.5	119.5	11.9	-118.2	0.85	0.84	1.21
4,600.0	6.22	68.80	4,595.0	123.9	21.4	-121.9	0.93	0.48	7.64
4,700.0	6.32	74.43	4,694.4	127.3	31.7	-124.5	0.62	0.10	5.63
4,800.0	6.27	67.88	4,793.8	130.9	42.1	-127.2	0.72	-0.05	-6.55
4,900.0	5.29	64.19	4,893.2	134.9	51.3	-130.6	1.05	-0.98	-3.69
5,000.0	3.37	61.09	4,993.0	138.3	58.0	-133.5	1.93	-1.92	-3.10
5,100.0	2.16	56.57	5,092.8	140.8	62.1	-135.6	1.23	-1.21	-4.52
5,200.0	1.92	47.66	5,192.8	143.0	65.0	-137.5	0.40	-0.24	-8.91



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Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Mad Dog 35 CN State Com 1H
Project:	Lea County, NM	TVD Reference:	WELL @ 3469.0usft (Trinidad #110)
Site:	Sec 35, T23S, R34E	MD Reference:	WELL @ 3469.0usft (Trinidad #110)
Well:	Mad Dog 35 CN State Com 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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	1.74	52.85	5,292.7	145.0	67.4	-139.4	0.24	-0.18	5.19	
5,400.0	1.61	39.00	5,392.7	147.0	69.5	-141.2	0.42	-0.13	-13.85	
5,500.0	1.57	41.20	5,492.6	149.1	71.3	-143.2	0.07	-0.04	2.20	
5,600.0	1.67	35.95	5,592.6	151.4	73.0	-145.3	0.18	0.10	-5.25	
5,700.0	1.15	35.60	5,692.6	153.4	74.5	-147.1	0.52	-0.52	-0.35	
5,800.0	0.50	10.06	5,792.6	154.6	75.1	-148.3	0.73	-0.65	-25.54	
5,900.0	0.51	316.37	5,892.6	155.4	74.9	-149.1	0.46	0.01	-53.69	
6,000.0	0.93	335.69	5,992.6	156.4	74.3	-150.2	0.48	0.42	19.32	
6,100.0	0.90	342.75	6,092.5	157.9	73.7	-151.7	0.12	-0.03	7.06	
6,200.0	1.05	322.82	6,192.5	159.4	72.9	-153.3	0.37	0.15	-19.93	
6,300.0	0.80	348.07	6,292.5	160.8	72.2	-154.7	0.47	-0.25	25.25	
6,400.0	0.73	348.80	6,392.5	162.1	71.9	-156.1	0.07	-0.07	0.73	
6,500.0	0.74	338.51	6,492.5	163.3	71.6	-157.3	0.13	0.01	-10.29	
6,600.0	0.80	359.46	6,592.5	164.6	71.3	-158.6	0.29	0.06	20.95	
6,700.0	0.66	345.79	6,692.5	165.9	71.2	-159.9	0.22	-0.14	-13.67	
6,800.0	0.75	335.52	6,792.5	167.0	70.8	-161.1	0.15	0.09	-10.27	
6,900.0	0.64	299.15	6,892.5	167.9	70.0	-162.0	0.45	-0.11	-36.37	
7,000.0	0.54	306.84	6,992.5	168.5	69.2	-162.6	0.13	-0.10	7.69	
7,100.0	0.95	286.21	7,092.5	169.0	68.0	-163.2	0.48	0.41	-20.63	
7,200.0	0.77	318.86	7,192.4	169.7	66.7	-164.1	0.51	-0.18	32.65	
7,300.0	0.88	280.04	7,292.4	170.4	65.6	-164.8	0.56	0.11	-38.82	
7,400.0	0.52	231.54	7,392.4	170.2	64.4	-164.7	0.66	-0.36	-48.50	
7,500.0	0.77	268.51	7,492.4	169.9	63.4	-164.5	0.47	0.25	36.97	
7,600.0	1.26	233.62	7,592.4	169.2	61.9	-164.0	0.77	0.49	-34.89	
7,700.0	1.27	228.70	7,692.4	167.9	60.1	-162.7	0.11	0.01	-4.92	
7,800.0	1.34	230.45	7,792.4	166.4	58.4	-161.4	0.08	0.07	1.75	
7,900.0	0.72	229.92	7,892.3	165.2	57.0	-160.3	0.62	-0.62	-0.53	
8,000.0	1.27	274.77	7,992.3	164.9	55.4	-160.1	0.91	0.55	44.85	
8,100.0	1.38	270.97	8,092.3	165.0	53.1	-160.4	0.14	0.11	-3.80	
8,200.0	1.31	277.93	8,192.3	165.2	50.8	-160.8	0.18	-0.07	6.96	
8,300.0	1.22	275.59	8,292.2	165.5	48.6	-161.2	0.10	-0.09	-2.34	
8,400.0	1.61	272.58	8,392.2	165.6	46.1	-161.6	0.40	0.39	-3.01	
8,500.0	1.14	259.37	8,492.2	165.5	43.8	-161.6	0.56	-0.47	-13.21	
8,600.0	1.16	248.83	8,592.2	165.0	41.8	-161.2	0.21	0.02	-10.54	
8,700.0	1.50	247.08	8,692.1	164.1	39.7	-160.5	0.34	0.34	-1.75	
8,800.0	1.30	245.73	8,792.1	163.1	37.4	-159.7	0.20	-0.20	-1.35	
8,900.0	1.16	212.63	8,892.1	161.8	35.9	-158.5	0.71	-0.14	-33.10	
9,000.0	1.02	203.53	8,992.1	160.1	35.0	-156.9	0.22	-0.14	-9.10	
9,100.0	1.00	178.42	9,092.1	158.4	34.6	-155.3	0.44	-0.02	-25.11	
9,200.0	0.67	189.88	9,192.0	157.0	34.6	-153.9	0.37	-0.33	11.46	
9,300.0	1.66	193.22	9,292.0	155.0	34.1	-151.9	0.99	0.99	3.34	
9,400.0	2.07	212.85	9,392.0	152.1	32.8	-149.1	0.75	0.41	19.63	
9,500.0	1.94	226.44	9,491.9	149.4	30.6	-146.6	0.49	-0.13	13.59	

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Company: Mewbourne Oil Co
Project: Lea County, NM
Site: Sec 35, T23S, R34E
Well: Mad Dog 35 CN State Com 1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Mad Dog 35 CN State Com 1H
TVD Reference: WELL @ 3469.0usft (Trinidad #110)
MD Reference: WELL @ 3469.0usft (Trinidad #110)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
9,600.0	1.11	242.65	9,591.9	147.8	28.5	-145.1	0.93	-0.83	16.21
9,700.0	2.00	250.48	9,691.8	146.8	26.0	-144.3	0.91	0.89	7.83
9,800.0	1.08	257.09	9,791.8	146.0	23.5	-143.7	0.94	-0.92	6.61
9,900.0	1.11	257.77	9,891.8	145.5	21.6	-143.4	0.03	0.03	0.68
10,000.0	1.07	244.93	9,991.8	144.9	19.8	-143.0	0.25	-0.04	-12.84
10,100.0	2.13	245.48	10,091.7	143.8	17.3	-142.0	1.06	1.06	0.55
10,200.0	3.01	254.79	10,191.6	142.3	13.0	-140.9	0.97	0.88	9.31
10,300.0	3.41	244.07	10,291.5	140.3	7.8	-139.3	0.72	0.40	-10.72
10,400.0	3.32	235.53	10,391.3	137.4	2.8	-136.8	0.51	-0.09	-8.54
10,500.0	3.42	222.49	10,491.1	133.5	-1.6	-133.3	0.77	0.10	-13.04
10,600.0	2.26	211.09	10,591.0	129.7	-4.7	-129.6	1.28	-1.16	-11.40
10,700.0	2.65	210.57	10,690.9	126.0	-6.9	-126.1	0.39	0.39	-0.52
TIE ON @ 10793' MD / 10784' TVD									
10,793.0	3.03	227.39	10,783.8	122.5	-9.8	-122.9	0.98	0.41	18.09
10,873.0	5.40	181.20	10,863.6	117.3	-11.4	-117.8	4.95	2.96	-57.74
10,918.0	10.20	170.80	10,908.2	111.2	-10.8	-111.7	11.08	10.67	-23.11
10,963.0	14.90	164.70	10,952.1	101.7	-8.6	-102.1	10.84	10.44	-13.56
11,008.0	18.60	168.00	10,995.2	89.1	-5.6	-89.3	8.49	8.22	7.33
11,053.0	22.90	167.10	11,037.2	73.5	-2.2	-73.5	9.58	9.56	-2.00
11,099.0	26.80	168.00	11,079.0	54.7	2.0	-54.3	8.52	8.48	1.96
11,144.0	30.60	167.50	11,118.4	33.5	6.6	-32.9	8.46	8.44	-1.11
11,189.0	34.30	167.10	11,156.4	10.0	11.9	-9.0	8.24	8.22	-0.89
11,234.0	37.70	170.60	11,192.8	-16.0	17.0	17.2	8.83	7.56	7.78
11,279.0	41.40	172.20	11,227.5	-44.3	21.2	45.8	8.53	8.22	3.56
11,324.0	45.80	175.40	11,260.1	-75.1	24.5	76.8	10.94	9.78	7.11
11,368.0	50.40	177.90	11,289.5	-107.8	26.4	109.5	11.28	10.45	5.68
11,413.0	54.20	176.40	11,317.0	-143.4	28.2	145.1	8.85	8.44	-3.33
CROSSED HARDLINE @ 11458' MD / 11341.8' TVD									
11,458.0	58.70	176.60	11,341.8	-180.8	30.5	182.6	10.01	10.00	0.44
11,503.0	62.70	177.70	11,363.9	-220.0	32.4	221.8	9.14	8.89	2.44
11,548.0	67.00	180.10	11,383.0	-260.7	33.2	262.5	10.70	9.56	5.33
11,593.0	71.60	180.50	11,398.9	-302.8	33.0	304.4	10.26	10.22	0.89
11,639.0	76.20	180.50	11,411.6	-346.9	32.6	348.4	10.00	10.00	0.00
11,685.0	81.50	180.50	11,420.5	-392.1	32.2	393.4	11.52	11.52	0.00
11,754.0	85.20	180.30	11,428.5	-460.6	31.7	461.7	5.37	5.36	-0.29
11,786.0	86.90	181.00	11,430.7	-492.5	31.4	493.4	5.74	5.31	2.19
11,818.0	88.80	179.90	11,431.9	-524.5	31.1	525.3	6.86	5.94	-3.44
11,849.0	89.50	180.10	11,432.4	-555.5	31.1	556.2	2.35	2.26	0.65
11,881.0	89.30	179.40	11,432.7	-587.5	31.3	588.1	2.27	-0.63	-2.19
11,913.0	91.40	179.10	11,432.5	-619.5	31.7	620.1	6.63	6.56	-0.94
12,006.0	91.40	177.70	11,430.2	-712.4	34.3	712.9	1.50	0.00	-1.51
12,102.0	90.80	177.10	11,428.4	-808.3	38.6	808.8	0.88	-0.63	-0.63
12,198.0	93.10	177.50	11,425.1	-904.1	43.1	904.7	2.43	2.40	0.42
12,291.0	93.60	178.00	11,419.7	-996.9	46.8	997.5	0.76	0.54	0.54

HOBS CO

DDC
Survey Report

Company: Mewbourne Oil Co
 Project: Lea County, NM
 Site: Sec 35, T23S, R34E
 Well: Mad Dog 35 CN State Com 1H
 Wellbore: Wellbore #1
 Design: Wellbore #1

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Local Co-ordinate Reference: Well Mad Dog 35 CN State Com 1H
 TVD Reference: WELL @ 3469.0usft (Trinidad #110)
 MD Reference: WELL @ 3469.0usft (Trinidad #110)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

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)
12,386.0	93.10	177.10	11,414.1	-1,091.6	50.8	1,092.3	1.08	-0.53	-0.95
12,480.0	89.90	175.40	11,411.7	-1,185.4	57.0	1,186.2	3.85	-3.40	-1.81
12,575.0	90.00	175.90	11,411.8	-1,280.1	64.2	1,281.2	0.54	0.11	0.53
12,670.0	91.90	177.70	11,410.2	-1,374.9	69.5	1,376.2	2.75	2.00	1.89
12,764.0	89.80	176.40	11,408.8	-1,468.8	74.3	1,470.1	2.63	-2.23	-1.38
12,857.0	91.30	176.30	11,407.9	-1,561.6	80.3	1,563.1	1.62	1.61	-0.11
12,952.0	89.40	174.50	11,407.3	-1,656.3	87.9	1,658.1	2.75	-2.00	-1.89
13,046.0	89.30	175.00	11,408.4	-1,749.9	96.5	1,752.1	0.54	-0.11	0.53
13,141.0	90.30	174.70	11,408.7	-1,844.5	105.0	1,847.1	1.10	1.05	-0.32
13,235.0	92.50	174.50	11,406.4	-1,938.0	113.8	1,941.0	2.35	2.34	-0.21
13,329.0	90.00	173.80	11,404.4	-2,031.5	123.4	2,035.0	2.76	-2.66	-0.74
13,424.0	90.20	173.60	11,404.2	-2,125.9	133.8	2,129.9	0.30	0.21	-0.21
13,519.0	90.50	174.70	11,403.6	-2,220.5	143.5	2,224.9	1.20	0.32	1.16
13,613.0	90.80	172.60	11,402.6	-2,313.9	153.9	2,318.8	2.26	0.32	-2.23
13,708.0	91.00	171.30	11,401.1	-2,407.9	167.2	2,413.6	1.38	0.21	-1.37
13,803.0	89.70	170.10	11,400.5	-2,501.7	182.6	2,508.3	1.86	-1.37	-1.26
13,898.0	90.40	169.40	11,400.4	-2,595.1	199.5	2,602.8	1.04	0.74	-0.74
13,993.0	89.90	170.50	11,400.2	-2,688.7	216.1	2,697.3	1.27	-0.53	1.16
14,088.0	91.80	172.60	11,398.8	-2,782.6	230.0	2,792.1	2.98	2.00	2.21
14,183.0	92.20	171.90	11,395.4	-2,876.7	242.8	2,886.9	0.85	0.42	-0.74
14,278.0	93.70	175.00	11,390.5	-2,970.9	253.6	2,981.7	3.62	1.58	3.26
14,374.0	92.50	174.70	11,385.4	-3,066.4	262.2	3,077.5	1.29	-1.25	-0.31
14,468.0	92.80	174.30	11,381.0	-3,159.9	271.2	3,171.4	0.53	0.32	-0.43
14,564.0	90.30	175.40	11,378.4	-3,255.5	279.9	3,267.3	2.84	-2.60	1.15
14,659.0	88.90	175.70	11,379.1	-3,350.2	287.2	3,362.3	1.51	-1.47	0.32
14,754.0	88.60	175.70	11,381.1	-3,444.9	294.4	3,457.3	0.32	-0.32	0.00
14,849.0	89.90	176.40	11,382.4	-3,539.6	300.9	3,552.3	1.55	1.37	0.74
14,945.0	89.30	175.90	11,383.1	-3,635.4	307.3	3,648.3	0.81	-0.63	-0.52
15,040.0	91.40	175.90	11,382.5	-3,730.2	314.1	3,743.3	2.21	2.21	0.00
15,135.0	91.80	175.90	11,379.8	-3,824.9	320.9	3,838.2	0.42	0.42	0.00
15,230.0	90.70	175.60	11,377.8	-3,919.6	328.0	3,933.2	1.20	-1.16	-0.32
15,325.0	91.60	174.50	11,375.8	-4,014.2	336.2	4,028.2	1.50	0.95	-1.16
15,420.0	91.60	174.10	11,373.2	-4,108.7	345.6	4,123.1	0.42	0.00	-0.42
15,515.0	91.30	176.80	11,370.8	-4,203.4	353.1	4,218.1	2.86	-0.32	2.84
15,578.0	89.60	177.00	11,370.3	-4,266.3	356.5	4,281.1	2.72	-2.70	0.32
15,610.0	90.00	178.70	11,370.4	-4,298.3	357.7	4,313.0	5.46	1.25	5.31
15,641.0	90.80	179.60	11,370.2	-4,329.3	358.2	4,344.0	3.88	2.58	2.90
15,705.0	89.30	179.10	11,370.1	-4,393.2	358.9	4,407.8	2.47	-2.34	-0.78
15,736.0	89.20	179.30	11,370.5	-4,424.2	359.3	4,438.8	0.72	-0.32	0.65
15,768.0	89.60	179.90	11,370.9	-4,456.2	359.6	4,470.7	2.25	1.25	1.88
15,800.0	89.60	179.90	11,371.1	-4,488.2	359.6	4,502.6	0.00	0.00	0.00
15,831.0	90.40	180.80	11,371.1	-4,519.2	359.4	4,533.5	3.88	2.58	2.90
15,863.0	90.80	181.90	11,370.8	-4,551.2	358.7	4,565.3	3.66	1.25	3.44

HOBS OCD

DDC

Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Mad Dog 35 CN State Com 1H
Project:	Lea County, NM	TVD Reference:	WELL @ 3469.0usft (Trinidad #110)
Site:	Sec 35, T23S, R34E	MD Reference:	WELL @ 3469.0usft (Trinidad #110)
Well:	Mad Dog 35 CN State Com 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
15,895.0	91.30	181.90	11,370.2	-4,583.2	357.6	4,597.1	1.56	1.56	0.00
15,926.0	91.60	181.90	11,369.4	-4,614.2	356.6	4,627.9	0.97	0.97	0.00
15,958.0	92.10	182.40	11,368.4	-4,646.1	355.4	4,659.7	2.21	1.56	1.56
15,990.0	92.00	182.40	11,367.2	-4,678.1	354.1	4,691.5	0.31	-0.31	0.00
16,050.0	91.80	180.80	11,365.2	-4,738.0	352.4	4,751.1	2.69	-0.33	-2.67
TD @ 16100' MD / 11363.7' TVD									
16,100.0	91.80	180.80	11,363.7	-4,788.0	351.7	4,800.9	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,793.0	10,783.8	122.5	-9.8	TIE ON @ 10793' MD / 10784' TVD
11,458.0	11,341.8	-180.8	30.5	CROSSED HARDLINE @ 11458' MD / 11341.8' TVD
16,100.0	11,363.7	-4,788.0	351.7	TD @ 16100' MD / 11363.7' TVD

Checked By: _____ Approved By: _____ Date: _____

HOESS OOD

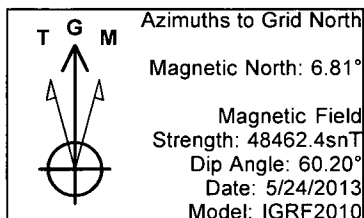
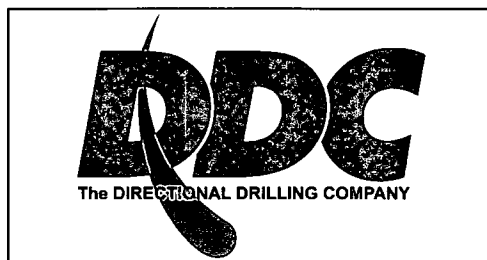
AUG 09 2013

RECEIVED

Company Name: Mewbourne Oil Co
Mad Dog 35 CN State Com 1H
Lea County, NM
Rig: Trinidad #110
Created By: TIFFANI MIZELL
Date: 6/25/2013

Mad Dog 35 CN State Com 1H
Lea County, NM
Q130104 & WT-13423
Design #2 (Tie-In)

Mewbourne Oil Company

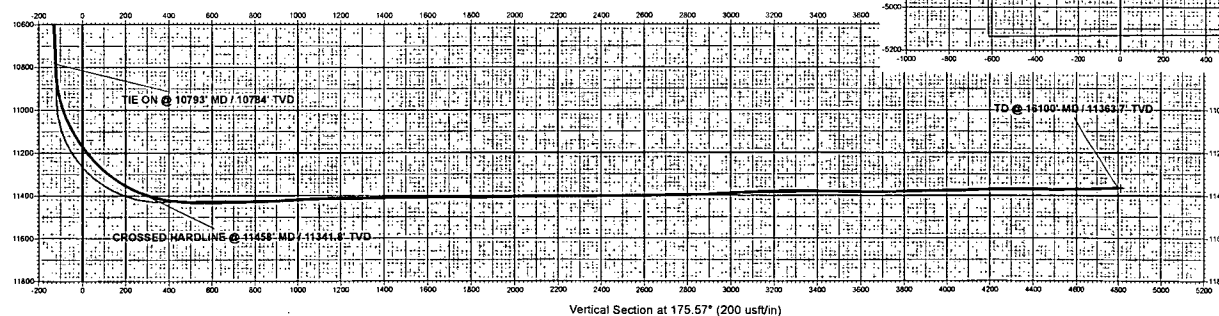


PROJECT DETAILS:	
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

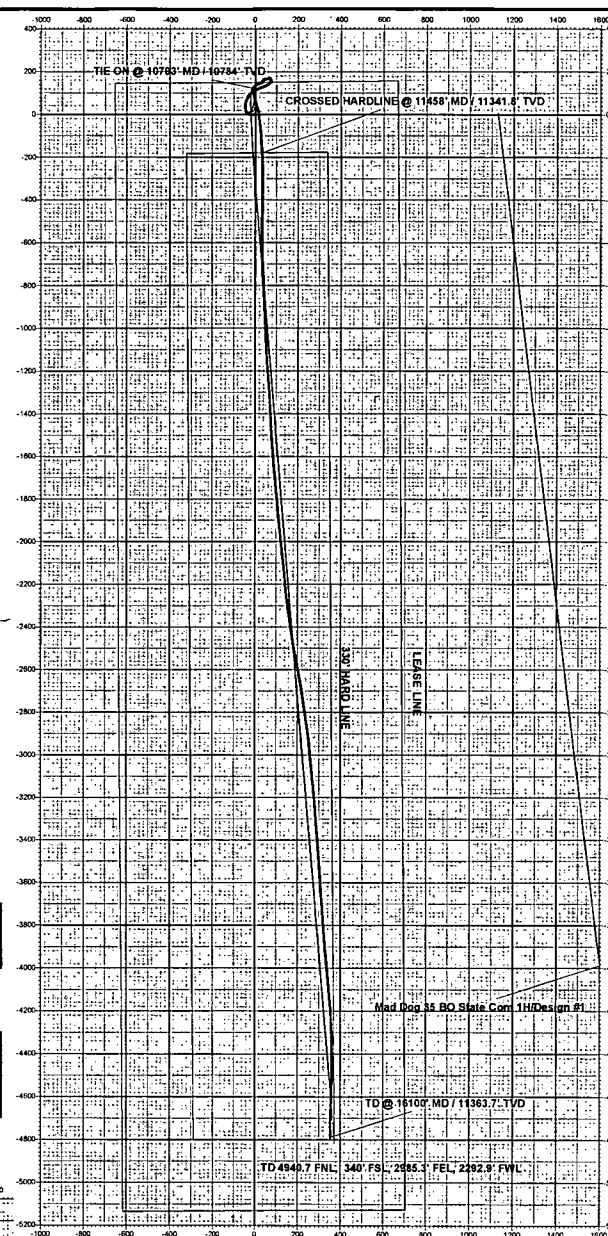
WELL DETAILS:	
Mad Dog 35 CN State Com 1H	
Ground Level:	3449.0
North	462286.45
East	775358.85
Latitude	32° 15' 16.575 N
Longitude	103° 26' 32.929 W

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	North	East	Latitude	Longitude
BHL Mad Dog 35 CN State Com 1H Design #1	11364.0	-4797.9	371.8	457488.55	775730.66	32° 15' 16.575 N	103° 26' 29.064 W
- plan hits target center							

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
10793.0	3.03	227.39	10793.0	122.5	-9.8	-122.9	371.7	TIE ON @ 10793' MD / 10784' TVD	
11458.0	68.79	176.80	11341.8	-180.8	30.5	182.6	675.4	CROSSED HARDLINE @ 11458' MD / 11341.8' TVD	
16100.0	91.80	180.80	11363.7	-4788.0	351.7	4800.9	5503.7	TD @ 16100' MD / 11363.7' TVD	



Vertical Section at 175.57° (200 usf/m)



AUG 02 2013

Operating Company Mewbourne
 Well Name & Number Mad Dog 35 CN State Com 1H
 Sales Ticket Number 0005597615-1
 Date 6/22/2013

Company Rep Larry Sutton
 Field RECEIVED
 BOT Service Rep John Davis
 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	LT&C	0.03826	11,738.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,583.56	4,525	10,680	
Bott Liner											
TVD		11,365.00		KOP		10,845.00		Open Hole	6.125	Casing Vol. (bbl)	439.9
Carry Fluid Weight (ppg)			9.1		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	JR Setting Sleeve_RH Profile	11496.44							

Zone Length										
		JR Sleeve_S3 Hyd Set Packer	11496.44	8.60	5.813	3.875				
		4-1/2-13.5 LTC pup joint	11505.04	6.01	5.000	3.920				
		8 Joints of 4-1/2-13.5 LTC Casing	11511.05	305.17	5.000	3.920				
20	20	3.625 EX Frac Sleeve	11816.22	2.40	5.750		3.525	2286	298	440
438.9		3 Joint of 4-1/2-13.5 LTC Casing	11818.62	112.80	5.000	3.920				
		Baker Open Hole Packer	11931.42	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11935.31	75.22	5.000	3.920				
19	19	3.500 EX Frac Sleeve	12010.53	2.40	5.750		3.400	2286	277	440
		3 Joint of 4-1/2-13.5 LTC Casing	12012.93	113.02	5.000	3.920				
198.4		Baker Open Hole Packer	12125.95	3.89	5.820	3.875		2154		
		4 Joints of 4-1/2-13.5 LTC Casing	12129.84	151.18	5.000	3.920				
18	18	3.375 EX Frac Sleeve	12281.02	2.40	5.750		3.275	2286	257	440
		3 Joint of 4-1/2-13.5 LTC Casing	12283.42	112.51	5.000	3.920				
273.9		Baker Open Hole Packer	12395.93	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	12399.82	112.61	5.000	3.920				
17	17	3.250 EX Frac Sleeve	12512.43	2.40	5.750		3.150	2286	238	440
		3 Joint of 4-1/2-13.5 LTC Casing	12514.83	112.64	5.000	3.920				
235.4		Baker Open Hole Packer	12627.47	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	12631.36	113.01	5.000	3.920				
16	16	3.125 EX Frac Sleeve	12744.37	2.40	5.750		3.025	2286	219	440
		3 Joints of 4-1/2-13.5 LTC Casing	12746.77	114.31	5.000	3.920				
237.5		Baker Open Hole Packer	12861.08	3.89	5.820	3.875		2154		

AUG 09 2013

Operating Company Mewbourne
 Well Name & Number Mad Dog 35 CN State Com 1H
 Sales Ticket Number 0005597615-1
 Date 6/22/2013

Company Rep Larry Sutton
RECEIVED Field
 BOT Service Rep John Davis
 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	LT&C	0.03826	11,738.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,583.56	4,525	10,680
Bott Liner										
TVD		11,365.00	KOP		10,845.00	Open Hole		6.125	Casing Vol. (bbl)	439.9
Carry Fluid Weight (ppg)		9.1	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)
15		3 Joints of 4-1/2-13.5 LTC Casing	12864.97	115.63	5.000	3.920				
	15	3.000 EX Frac sleeve	12980.60	2.40	5.750		2.900	2286	202	440
241.5		3 Joint of 4-1/2-13.5 LTC Casing	12983.00	115.68	5.000	3.920				
		Baker Open Hole Packer	13098.68	3.89	5.820	3.875		2154		
14		2 Joints of 4-1/2-13.5 LTC Casing	13102.57	76.90	5.000	3.920				
	14	2.875 EX Frac Sleeve	13179.47	2.40	5.750		2.775	2286	185	440
201.6		3 Joints of 4-1/2-13.5 LTC Casing	13181.87	114.49	5.000	3.920				
		Baker Open Hole Packer	13296.36	3.89	5.820	3.875		2154		
13		3 Joints of 4-1/2-13.5 LTC Casing	13300.25	115.69	5.000	3.920				
	13	2.750 EX Frac Sleeve	13415.94	2.40	5.750		2.650	2286	168	440
241.4		3 Joint of 4-1/2-13.5 LTC Casing	13418.34	115.56	5.000	3.920				
		Baker Open Hole Packer	13533.90	3.89	5.820	3.875		2154		
12		2 Joints of 4-1/2-13.5 LTC Casing	13537.79	77.10	5.000	3.920				
	12	2.625 EX Frac Sleeve	13614.89	2.40	5.750		2.525	2286	153	440
202.9		3 Joints of 4-1/2-13.5 LTC Casing	13617.29	115.63	5.000	3.920				
		Baker Open Hole Packer	13732.92	3.89	5.820	3.875		2154		
11		2 Joints of 4-1/2-13.5 LTC Casing	13736.81	76.86	5.000	3.920				
	11	2.500 EX Frac Sleeve	13813.67	2.40	5.750		2.400	2286	138	440
202.5		3 Joint of 4-1/2-13.5 LTC Casing	13816.07	115.44	5.000	3.920				
		Baker Open Hole Packer	13931.51	3.89	5.820	3.875		2154		
10		2 Joints of 4-1/2-13.5 LTC Casing	13935.40	77.05	5.000	3.920				
	10	2.375 EX Frac Sleeve	14012.45	2.40	5.750		2.275	2286	124	440
202.5		3 Joints of 4-1/2-13.5 LTC Casing	14014.85	115.25	5.000	3.920				
		Baker Open Hole Packer	14130.10	3.89	5.820	3.875		2154		
9		2 Joint of 4-1/2-13.5 LTC Casing	14133.99	76.93	5.000	3.920				
	9	2.250 EX Frac Sleeve	14210.92	2.40	5.750		2.150	2286	111	440

AUG 09 2013

Operating Company Mewbourne Company Rep Larry Sutton
 Well Name & Number Vad Dog 35 CN State Com 11 Field
 Sales Ticket Number 0005597615-1 BOT Service Rep John Davis
 Date 6/22/2013 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	LT&C	0.03826	11,738.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,583.56	4,525	10,680
Bott Liner										
TVD		11,365.00	KOP		10,845.00	Open Hole		6.125	Casing Vol. (bbl)	439.9
Carry Fluid Weight (ppg)		9.1	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)
202.8		3 Joints of 4-1/2-13.5 LTC Casing	14213.32	115.71	5.000	3.920				
		Baker Open Hole Packer	14329.03	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	14332.92	115.70	5.000	3.920				
8	8	2.125 EX Frac Sleeve	14448.62	2.40	5.750		2.025	2286	98	440
		3 Joints of 4-1/2-13.5 LTC Casing	14451.02	115.26	5.000	3.920				
241.1		Baker Open Hole Packer	14566.28	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	14570.17	115.38	5.000	3.920				
7	7	2.000 EX Frac Sleeve	14685.55	2.40	5.750		1.900	2286	87	440
		3 Joints of 4-1/2-13.5 LTC Casing	14687.95	115.27	5.000	3.920				
240.8		Baker Open Hole Packer	14803.22	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	14807.11	76.65	5.000	3.920				
6	6	1.875 EX Frac Sleeve	14883.76	2.40	5.750		1.775	2286	76	440
		3 Joints of 4-1/2-13.5 LTC Casing	14886.16	115.76	5.000	3.920				
202.6		Baker Open Hole Packer	15001.92	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	15005.81	115.46	5.000	3.920				
5	5	1.750 EX Frac Sleeve	15121.27	2.40	5.750		1.650	2286	65	440
		4 Joint of 4-1/2-13.5 LTC Casing	15123.67	154.00	5.000	3.920				
279.6		Baker Open Hole Packer	15277.67	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	15281.56	115.47	5.000	3.920				
4	4	1.625 EX Frac Sleeve	15397.03	2.40	5.750		1.525	2286	56	440
		3 Joints of 4-1/2-13.5 LTC Casing	15399.43	115.49	5.000	3.920				
241.1		Baker Open Hole Packer	15514.92	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	15518.81	76.92	5.000	3.920				
3	3	1.500 DBL Ball Frac Sleeve	15595.73	2.40	5.750		1.400	2286	47	440
		3 Joint of 4-1/2-13.5 LTC Casing	15598.13	115.62	5.000	3.920				
202.7		Baker Open Hole Packer	15713.75	3.89	5.820	3.875		2154		

[illegible]