

Results of Directional Survey

API number:	30-025-40981		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	MAD DOG 35 BO STATE COM # 1H

surface	ULSTR:	B	35	T	23S	R	34E
				150	FNL	2180	FEL

BH Loc	ULSTR:	O	35	T	23S	R	34E
16150	MD	11350.1	TVD	345	FSL	1582	FEL
				4935	FNL		

Top Perf/OH	ULSTR:	B	35	T	23S	R	34E
11790	MD	11419.6	TVD	612	FNL	2094	FEL

Bot Perf/OH	ULSTR:	O	35	T	23S	R	34E
16095	MD	11352.6	TVD	400	FSL	1588	FEL
				4880	FNL		

	MD	N/S	E/W	VD
	11715	-387.10	87.70	11415.1
TOP PERFS/OH	11790	-462.00	86.40	11419.60
	11790	-462.00	86.40	11419.60
	16031	-4666.50	584.80	11355.40
BOT PERFS/OH	16095	-4730.02	591.87	11352.63
	16098	-4733.00	592.20	11352.50

NEXT TO LAST	16098	-4733.00	592.20	11352.50
LAST READING	16150	-4784.60	598.40	11350.10
TD	16150	-4784.60	598.40	11350.10

Surface Location	150	FN	2180	FE
Projected BHL	4935	FN	1582	FE
Location of				
Top Perfs/OH	612	FN	2094	FE
Bottom Perfs/OH	4880	FN	1588	FE

SUMMARY of Subsurface Locations

Surface Location	B-35-23S-34E	150	FN	2180	FE	Vert. Depth
Top Perfs/OH	B-35-23S-34E	612	FN	2094	FE	11419.60
Bottom Perfs/OH	O-35-23S-34E	4880	FN	1588	FE	11352.63
Projected TD	O-35-23S-34E	4935	FN	1582	FE	11350.10

MAY 27 2014



COMPANY: Mewbourne Oil Company
 WELL: Mad Dog 35 BO 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 6.71°

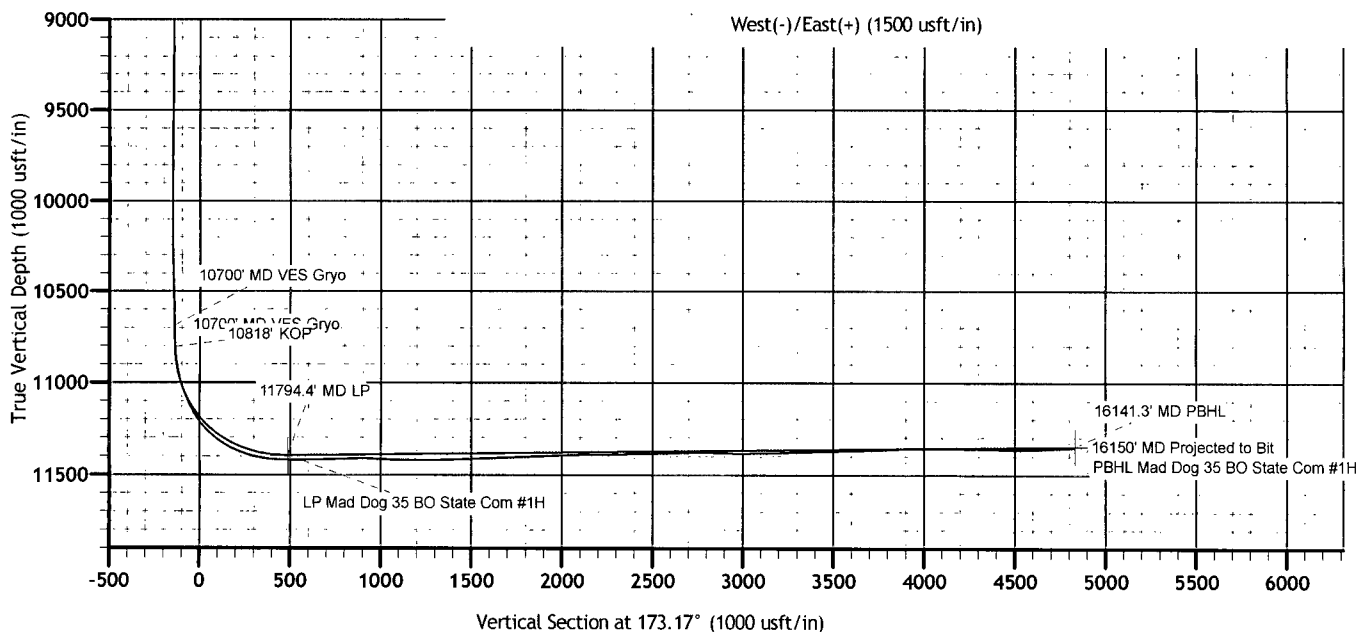
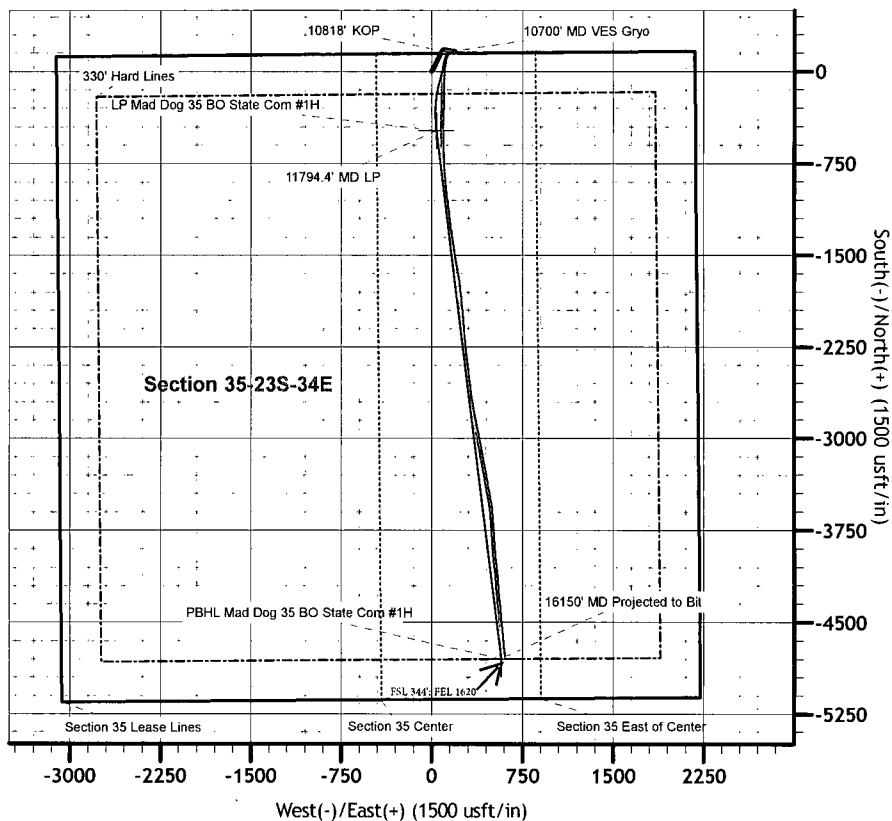
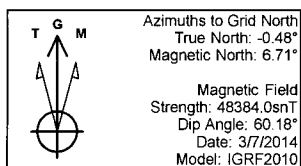
OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001					
GL 3426 + 20 @ 3446.0usft (Patterson #80)					
GROUND ELEVATION: 3426.0					
+N/-S	+E/-W	Northng	Eastng	Latitude	Longitude
0.0	0.0	462296.24	776484.64	32° 16' 4.086 N	103° 26' 19.818 W

Slot

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	10700.0	2.14	240.52	10688.9	156.6	136.5	0.00	0.00	-139.2	
2	10818.0	2.14	240.52	10806.9	154.4	132.6	0.00	0.00	-137.5	
3	11420.6	60.16	193.76	11302.0	-130.3	53.7	9.74	-47.69	135.8	
4	11794.4	90.66	172.90	11396.0	-485.2	37.7	9.74	-36.85	486.3	LP Mad Dog 35 BO State Com #1H
5	16141.3	90.66	172.90	11346.0	-4798.6	575.0	0.00	0.00	4832.9	PBHL Mad Dog 35 BO State Com #1H





HOBBS OCD

MAY 20 2014

RECEIVED

Mewbourne Oil Company .

Lea County N.M.

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

Mad Dog 35 BO State Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

05 May, 2014





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	TVD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	MD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO 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 BO State Com #1H		
Site Position:		Northing:	462,296.24 usft
From:	Map	Easting:	776,484.64 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 4.086 N
		Longitude:	103° 26' 19.818 W
		Grid Convergence:	0.48 °

Well	Mad Dog 35 BO State Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 462,296.24 usft
	+E/-W	0.0 usft	Easting: 776,484.64 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 16' 4.086 N
		Longitude:	103° 26' 19.818 W
		Ground Level:	3,426.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/7/2014	7.19	60.18	48,384

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	173.17

Survey Program	Date	5/5/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	10,700.0	VES Gryo Survey #1 (Original Hole)	GyroFlex	
10,818.0	16,150.0	MWD Survey #2 (Original Hole)	MWD	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	0.38	317.85	100.0	0.2	-0.2	-0.3	0.38	0.38	0.00
200.0	0.29	346.20	200.0	0.7	-0.5	-0.8	0.19	-0.09	28.35
300.0	0.44	5.46	300.0	1.4	-0.5	-1.4	0.19	0.15	19.26
400.0	1.03	33.75	400.0	2.5	0.0	-2.5	0.68	0.59	28.29
500.0	1.14	27.63	500.0	4.1	1.0	-4.0	0.16	0.11	-6.12
600.0	1.58	42.63	599.9	6.0	2.4	-5.7	0.56	0.44	15.00
700.0	1.70	21.52	699.9	8.4	3.8	-7.9	0.61	0.12	-21.11
800.0	1.75	32.32	799.9	11.1	5.2	-10.4	0.33	0.05	10.80



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Well:	Mad Dog 35 BO 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	1.89	38.20	899.8	13.7	7.0	-12.7	0.23	0.14	5.88
1,000.0	1.89	47.76	999.8	16.1	9.3	-14.9	0.31	0.00	9.56
1,100.0	2.11	45.34	1,099.7	18.5	11.8	-16.9	0.24	0.22	-2.42
1,200.0	2.51	23.07	1,199.6	21.8	14.0	-20.0	0.97	0.40	-22.27
1,300.0	2.78	21.07	1,299.5	26.1	15.7	-24.0	0.29	0.27	-2.00
1,400.0	2.97	38.32	1,399.4	30.4	18.2	-28.0	0.88	0.19	17.25
1,500.0	2.96	34.48	1,499.2	34.5	21.3	-31.7	0.20	-0.01	-3.84
1,600.0	3.20	29.92	1,599.1	39.1	24.1	-35.9	0.34	0.24	-4.56
1,700.0	3.43	24.25	1,698.9	44.2	26.7	-40.7	0.40	0.23	-5.67
1,800.0	3.76	23.62	1,798.7	49.9	29.3	-46.1	0.33	0.33	-0.63
1,900.0	3.98	17.88	1,898.5	56.3	31.6	-52.1	0.45	0.22	-5.74
2,000.0	4.15	20.72	1,998.3	62.9	34.0	-58.5	0.26	0.17	2.84
2,100.0	4.74	20.98	2,098.0	70.2	36.8	-65.3	0.59	0.59	0.26
2,200.0	5.07	26.63	2,197.6	78.0	40.2	-72.7	0.58	0.33	5.65
2,300.0	5.42	25.54	2,297.2	86.2	44.2	-80.3	0.36	0.35	-1.09
2,400.0	5.67	34.95	2,396.7	94.5	49.1	-88.0	0.94	0.25	9.41
2,500.0	5.89	28.45	2,496.2	103.1	54.4	-95.9	0.69	0.22	-6.50
2,600.0	5.99	27.70	2,595.7	112.2	59.2	-104.4	0.13	0.10	-0.75
2,700.0	5.92	26.93	2,695.1	121.4	64.0	-112.9	0.11	-0.07	-0.77
2,800.0	5.86	22.12	2,794.6	130.7	68.3	-121.7	0.50	-0.06	-4.81
2,900.0	5.64	24.74	2,894.1	139.9	72.2	-130.4	0.34	-0.22	2.62
3,000.0	5.32	22.97	2,993.6	148.7	76.1	-138.6	0.36	-0.32	-1.77
3,100.0	5.24	32.82	3,093.2	156.8	80.4	-146.1	0.91	-0.08	9.85
3,200.0	4.43	34.36	3,192.9	163.8	85.0	-152.5	0.82	-0.81	1.54
3,300.0	3.46	33.44	3,292.6	169.5	88.9	-157.7	0.97	-0.97	-0.92
3,400.0	2.91	43.50	3,392.5	173.9	92.3	-161.7	0.78	-0.55	10.06
3,500.0	1.96	50.21	3,492.4	176.8	95.4	-164.2	0.99	-0.95	6.71
3,600.0	1.03	64.89	3,592.3	178.3	97.5	-165.4	1.00	-0.93	14.68
3,700.0	1.56	90.96	3,692.3	178.6	99.7	-165.5	0.78	0.53	26.07
3,800.0	2.33	93.35	3,792.3	178.5	103.0	-165.0	0.77	0.77	2.39
3,900.0	2.62	94.89	3,892.2	178.2	107.4	-164.2	0.30	0.29	1.54
4,000.0	2.62	92.92	3,992.1	177.9	111.9	-163.3	0.09	0.00	-1.97
4,100.0	2.53	92.99	4,092.0	177.6	116.4	-162.5	0.09	-0.09	0.07
4,200.0	2.40	109.42	4,191.9	176.8	120.6	-161.2	0.72	-0.13	16.43
4,300.0	3.21	105.92	4,291.7	175.4	125.2	-159.2	0.83	0.81	-3.50
4,400.0	4.19	104.06	4,391.5	173.7	131.5	-156.8	0.99	0.98	-1.86
4,500.0	4.06	102.03	4,491.3	172.1	138.5	-154.4	0.20	-0.13	-2.03
4,600.0	3.98	101.28	4,591.0	170.7	145.4	-152.2	0.10	-0.08	-0.75
4,700.0	3.75	105.95	4,690.8	169.1	151.9	-149.8	0.39	-0.23	4.67
4,800.0	3.31	107.88	4,790.6	167.3	157.8	-147.4	0.46	-0.44	1.93
4,900.0	2.55	101.03	4,890.5	166.0	162.7	-145.5	0.84	-0.76	-6.85
5,000.0	2.20	102.29	4,990.4	165.2	166.8	-144.2	0.35	-0.35	1.26



Stryker Directional Survey Report



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Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	MD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO 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	1.49	116.50	5,090.3	164.2	169.8	-142.8	0.84	-0.71	14.21
5,200.0	1.04	129.97	5,190.3	163.0	171.7	-141.4	0.54	-0.45	13.47
5,300.0	1.04	134.39	5,290.3	161.8	173.0	-140.1	0.08	0.00	4.42
5,400.0	0.92	134.65	5,390.3	160.6	174.2	-138.7	0.12	-0.12	0.26
5,500.0	0.96	132.12	5,490.3	159.5	175.4	-137.5	0.06	0.04	-2.53
5,600.0	0.81	129.43	5,590.3	158.5	176.6	-136.3	0.16	-0.15	-2.69
5,700.0	0.59	133.88	5,690.3	157.6	177.5	-135.4	0.23	-0.22	4.45
5,800.0	0.39	111.23	5,790.3	157.2	178.2	-134.9	0.27	-0.20	-22.65
5,900.0	0.26	125.69	5,890.2	156.9	178.7	-134.5	0.15	-0.13	14.46
6,000.0	0.62	124.31	5,990.2	156.5	179.3	-134.0	0.36	0.36	-1.38
6,100.0	0.15	104.75	6,090.2	156.1	179.9	-133.6	0.48	-0.47	-19.56
6,200.0	0.36	112.17	6,190.2	156.0	180.3	-133.4	0.21	0.21	7.42
6,300.0	0.57	93.70	6,290.2	155.8	181.1	-133.2	0.26	0.21	-18.47
6,400.0	0.59	58.41	6,390.2	156.1	182.1	-133.3	0.35	0.02	-35.29
6,500.0	0.57	92.16	6,490.2	156.3	183.0	-133.5	0.34	-0.02	33.75
6,600.0	0.76	74.20	6,590.2	156.5	184.1	-133.5	0.28	0.19	-17.96
6,700.0	0.55	50.32	6,690.2	157.0	185.1	-133.8	0.34	-0.21	-23.88
6,800.0	0.77	75.86	6,790.2	157.4	186.2	-134.2	0.36	0.22	25.54
6,900.0	0.30	78.94	6,890.2	157.7	187.1	-134.3	0.47	-0.47	3.08
7,000.0	0.48	69.97	6,990.2	157.8	187.7	-134.4	0.19	0.18	-8.97
7,100.0	0.62	67.92	7,090.2	158.2	188.6	-134.6	0.14	0.14	-2.05
7,200.0	0.39	116.05	7,190.2	158.3	189.4	-134.6	0.46	-0.23	48.13
7,300.0	0.71	75.67	7,290.2	158.3	190.3	-134.5	0.48	0.32	-40.38
7,400.0	0.44	93.76	7,390.2	158.4	191.3	-134.5	0.32	-0.27	18.09
7,500.0	0.47	82.47	7,490.2	158.4	192.1	-134.4	0.09	0.03	-11.29
7,600.0	0.42	82.12	7,590.2	158.5	192.9	-134.5	0.05	-0.05	-0.35
7,700.0	0.34	73.91	7,690.2	158.6	193.5	-134.5	0.10	-0.08	-8.21
7,800.0	0.72	63.61	7,790.2	159.0	194.4	-134.8	0.39	0.38	-10.30
7,900.0	0.41	333.82	7,890.2	159.6	194.8	-135.3	0.83	-0.31	-89.79
8,000.0	0.39	343.55	7,990.2	160.3	194.5	-136.0	0.07	-0.02	9.73
8,100.0	0.60	324.92	8,090.2	161.0	194.1	-136.8	0.26	0.21	-18.63
8,200.0	0.23	325.64	8,190.2	161.6	193.7	-137.4	0.37	-0.37	0.72
8,300.0	0.45	292.37	8,290.2	161.9	193.2	-137.8	0.29	0.22	-33.27
8,400.0	0.64	329.26	8,390.2	162.6	192.6	-138.5	0.39	0.19	36.89
8,500.0	0.31	338.40	8,490.2	163.3	192.2	-139.3	0.34	-0.33	9.14
8,600.0	0.79	314.70	8,590.1	164.0	191.6	-140.1	0.52	0.48	-23.70
8,700.0	0.79	289.57	8,690.1	164.7	190.5	-140.9	0.34	0.00	-25.13
8,800.0	0.72	285.78	8,790.1	165.1	189.2	-141.5	0.09	-0.07	-3.79
8,900.0	0.68	293.05	8,890.1	165.5	188.1	-142.0	0.10	-0.04	7.27
9,000.0	0.57	317.74	8,990.1	166.1	187.2	-142.7	0.29	-0.11	24.69
9,100.0	0.68	309.18	9,090.1	166.9	186.4	-143.5	0.14	0.11	-8.56
9,200.0	0.55	290.25	9,190.1	167.4	185.5	-144.2	0.24	-0.13	-18.93
9,300.0	1.44	277.46	9,290.1	167.8	183.8	-144.7	0.91	0.89	-12.79



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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,400.0	2.16	274.81	9,390.0	168.1	180.7	-145.4	0.72	0.72	-2.65
9,500.0	3.12	269.58	9,489.9	168.2	176.1	-146.1	0.99	0.96	-5.23
9,600.0	3.37	271.20	9,589.8	168.3	170.4	-146.8	0.27	0.25	1.62
9,700.0	3.01	268.50	9,689.6	168.2	164.8	-147.5	0.39	-0.36	-2.70
9,800.0	2.83	280.65	9,789.5	168.6	159.8	-148.4	0.64	-0.18	12.15
9,900.0	3.07	276.12	9,889.4	169.4	154.7	-149.8	0.33	0.24	-4.53
10,000.0	2.28	272.89	9,989.2	169.8	150.0	-150.7	0.80	-0.79	-3.23
10,100.0	1.54	256.27	10,089.2	169.5	146.8	-150.9	0.92	-0.74	-16.62
10,200.0	1.03	223.88	10,189.2	168.6	144.8	-150.2	0.87	-0.51	-32.39
10,300.0	1.93	211.27	10,289.1	166.5	143.3	-148.3	0.95	0.90	-12.61
10,400.0	1.58	206.32	10,389.1	163.8	141.8	-145.8	0.38	-0.35	-4.95
10,500.0	1.71	207.29	10,489.0	161.3	140.5	-143.4	0.13	0.13	0.97
10,600.0	1.72	215.69	10,589.0	158.7	139.0	-141.1	0.25	0.01	8.40
10,700.0	2.14	240.52	10,688.9	156.6	136.5	-139.2	0.93	0.42	24.83
10700' MD VES Gryo									
10,818.0	3.20	204.60	10,806.8	152.5	133.2	-135.6	1.64	0.90	-30.44
10,850.0	4.80	199.40	10,838.7	150.4	132.4	-133.6	5.12	5.00	-16.25
10,881.0	7.40	193.60	10,869.6	147.3	131.5	-130.6	8.61	8.39	-18.71
10,913.0	10.60	192.20	10,901.2	142.4	130.4	-125.9	10.02	10.00	-4.38
10,945.0	12.90	194.60	10,932.5	136.0	128.8	-119.7	7.35	7.19	7.50
10,977.0	15.20	197.10	10,963.5	128.6	126.7	-112.6	7.43	7.19	7.81
11,008.0	18.40	198.50	10,993.2	120.0	124.0	-104.4	10.40	10.32	4.52
11,041.0	20.80	198.70	11,024.3	109.6	120.4	-94.5	7.28	7.27	0.61
11,072.0	23.50	201.30	11,053.0	98.6	116.4	-84.0	9.26	8.71	8.39
11,104.0	25.10	198.80	11,082.2	86.2	111.9	-72.3	5.94	5.00	-7.81
11,136.0	26.10	193.70	11,111.0	72.9	108.1	-59.6	7.56	3.13	-15.94
11,167.0	28.50	190.60	11,138.6	59.0	105.1	-46.1	9.00	7.74	-10.00
11,199.0	31.70	189.00	11,166.3	43.2	102.4	-30.8	10.31	10.00	-5.00
11,231.0	35.40	187.10	11,192.9	25.7	99.9	-13.7	12.02	11.56	-5.94
11,262.0	39.30	185.50	11,217.6	7.0	97.9	4.7	12.96	12.58	-5.16
11,294.0	43.40	183.70	11,241.6	-14.0	96.2	25.4	13.34	12.81	-5.63
11,326.0	47.70	182.30	11,264.0	-36.8	95.0	47.9	13.80	13.44	-4.38
11,357.0	50.70	181.80	11,284.2	-60.3	94.2	71.1	9.75	9.68	-1.61
11,389.0	52.80	181.10	11,304.0	-85.4	93.5	95.9	6.78	6.56	-2.19
11,421.0	55.70	181.10	11,322.7	-111.4	93.0	121.6	9.06	9.06	0.00
11,452.0	59.50	180.90	11,339.3	-137.5	92.6	147.6	12.27	12.26	-0.65
11,484.0	63.70	180.20	11,354.6	-165.7	92.3	175.5	13.27	13.13	-2.19
11,516.0	67.00	179.90	11,367.9	-194.8	92.3	204.4	10.35	10.31	-0.94
11,547.0	69.60	180.20	11,379.4	-223.6	92.2	232.9	8.44	8.39	0.97
11,579.0	73.00	181.30	11,389.6	-253.9	91.8	263.0	11.11	10.63	3.44
11,611.0	76.10	182.00	11,398.2	-284.7	91.0	293.5	9.91	9.69	2.19
11,643.0	79.10	182.10	11,405.0	-315.9	89.8	324.4	9.38	9.38	0.31



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	TVD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	MD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO 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)
11,674.0	81.50	182.00	11,410.2	-346.5	88.7	354.6	7.75	7.74	-0.32
11,706.0	84.20	180.90	11,414.2	-378.2	87.9	386.0	9.10	8.44	-3.44
11,715.0	84.60	181.60	11,415.1	-387.1	87.7	394.8	8.93	4.44	7.78
11,790.0	88.50	180.40	11,419.6	-462.0	86.4	469.0	5.44	5.20	-1.60
11,813.4	89.60	180.55	11,420.0	-485.4	86.3	492.2	4.73	4.69	0.63
LP Mad Dog 35 BO State Com #1H									
11,822.0	90.00	180.60	11,420.0	-494.0	86.2	500.7	4.73	4.69	0.62
11,853.0	89.60	180.40	11,420.1	-525.0	85.9	531.5	1.44	-1.29	-0.65
11,948.0	89.80	178.40	11,420.6	-620.0	86.9	625.9	2.12	0.21	-2.11
12,043.0	94.40	177.60	11,417.2	-714.8	90.2	720.5	4.91	4.84	-0.84
12,137.0	92.70	176.20	11,411.3	-808.5	95.3	814.1	2.34	-1.81	-1.49
12,232.0	87.80	174.90	11,410.9	-903.2	102.6	909.0	5.34	-5.16	-1.37
12,327.0	87.80	172.60	11,414.6	-997.5	113.0	1,003.9	2.42	0.00	-2.42
12,423.0	88.00	173.40	11,418.1	-1,092.8	124.7	1,099.8	0.86	0.21	0.83
12,517.0	89.30	172.30	11,420.3	-1,186.0	136.4	1,193.8	1.81	1.38	-1.17
12,612.0	92.00	173.00	11,419.2	-1,280.2	148.5	1,288.8	2.94	2.84	0.74
12,708.0	90.40	170.40	11,417.2	-1,375.2	162.4	1,384.7	3.18	-1.67	-2.71
12,802.0	92.60	170.90	11,414.8	-1,467.9	177.6	1,478.6	2.40	2.34	0.53
12,897.0	92.00	170.90	11,410.9	-1,561.6	192.6	1,573.4	0.63	-0.63	0.00
12,992.0	90.80	169.70	11,408.6	-1,655.2	208.7	1,668.3	1.79	-1.26	-1.26
13,087.0	93.50	173.00	11,405.1	-1,749.0	222.9	1,763.1	4.49	2.84	3.47
13,182.0	92.10	174.10	11,400.4	-1,843.3	233.6	1,858.0	1.87	-1.47	1.16
13,277.0	93.60	174.90	11,395.7	-1,937.8	242.7	1,952.9	1.79	1.58	0.84
13,372.0	91.40	175.30	11,391.6	-2,032.3	250.8	2,047.7	2.35	-2.32	0.42
13,467.0	90.90	175.50	11,389.6	-2,127.0	258.4	2,142.6	0.57	-0.53	0.21
13,562.0	89.90	174.60	11,389.0	-2,221.6	266.6	2,237.6	1.42	-1.05	-0.95
13,657.0	91.30	173.40	11,388.0	-2,316.1	276.5	2,332.6	1.94	1.47	-1.26
13,752.0	90.40	172.30	11,386.6	-2,410.4	288.4	2,427.5	1.50	-0.95	-1.16
13,847.0	93.00	173.90	11,383.8	-2,504.6	299.8	2,522.5	3.21	2.74	1.68
13,942.0	92.00	173.00	11,379.6	-2,598.9	310.6	2,617.4	1.42	-1.05	-0.95
14,037.0	89.70	170.50	11,378.2	-2,692.9	324.2	2,712.3	3.58	-2.42	-2.63
14,132.0	89.80	169.50	11,378.6	-2,786.5	340.7	2,807.2	1.06	0.11	-1.05
14,227.0	88.50	168.10	11,380.0	-2,879.6	359.2	2,901.9	2.01	-1.37	-1.47
14,322.0	90.30	169.70	11,381.0	-2,972.8	377.4	2,996.6	2.53	1.89	1.68
14,417.0	90.10	168.30	11,380.7	-3,066.1	395.6	3,091.4	1.49	-0.21	-1.47
14,512.0	92.20	170.00	11,378.8	-3,159.4	413.5	3,186.1	2.84	2.21	1.79
14,607.0	91.80	168.80	11,375.5	-3,252.7	430.9	3,280.9	1.33	-0.42	-1.26
14,702.0	91.40	170.40	11,372.8	-3,346.1	448.1	3,375.6	1.74	-0.42	1.68
14,796.0	90.00	168.30	11,371.7	-3,438.5	465.4	3,469.4	2.68	-1.49	-2.23
14,891.0	91.50	171.20	11,370.4	-3,531.9	482.3	3,564.2	3.44	1.58	3.05
14,987.0	92.40	175.50	11,367.2	-3,627.2	493.4	3,660.1	4.57	0.94	4.48
15,082.0	93.20	175.10	11,362.5	-3,721.8	501.2	3,755.0	0.94	0.84	-0.42
15,177.0	93.50	176.90	11,357.0	-3,816.4	507.8	3,849.7	1.92	0.32	1.89



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	TVD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	MD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO State Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

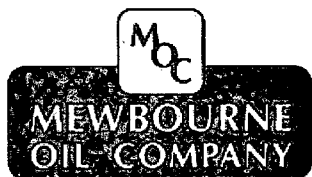
Survey

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)
15,272.0	91.30	176.30	11,353.0	-3,911.1	513.5	3,944.4	2.40	-2.32	-0.63
15,303.0	90.60	175.80	11,352.5	-3,942.0	515.6	3,975.4	2.77	-2.26	-1.61
15,335.0	89.50	174.10	11,352.4	-3,973.9	518.4	4,007.4	6.33	-3.44	-5.31
15,366.0	88.80	172.30	11,352.9	-4,004.7	522.1	4,038.3	6.23	-2.26	-5.81
15,461.0	89.10	174.40	11,354.6	-4,099.0	533.1	4,133.3	2.23	0.32	2.21
15,556.0	88.80	176.00	11,356.4	-4,193.7	541.0	4,228.2	1.71	-0.32	1.68
15,651.0	88.40	174.80	11,358.7	-4,288.3	548.6	4,323.1	1.33	-0.42	-1.26
15,746.0	89.10	174.20	11,360.8	-4,382.9	557.7	4,418.1	0.97	0.74	-0.63
15,841.0	90.10	174.90	11,361.4	-4,477.4	566.8	4,513.1	1.28	1.05	0.74
15,936.0	92.40	174.60	11,359.4	-4,572.0	575.5	4,608.0	2.44	2.42	-0.32
16,031.0	92.40	174.10	11,355.4	-4,666.5	584.8	4,702.9	0.53	0.00	-0.53
16,098.0	92.60	173.20	11,352.5	-4,733.0	592.2	4,769.8	1.37	0.30	-1.34
16,150.0	92.60	173.20	11,350.1	-4,784.6	598.4	4,821.8	0.00	0.00	0.00

16150' MD Projected to Bit - PBHL Mad Dog 35 BO State Com #1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
10,700.0	10,688.9	156.6	136.5	10700' MD VES Gryo
16,150.0	11,350.1	-4,784.6	598.4	16150' MD Projected to Bit



HOBBS OCD

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Mewbourne Oil Company .

Lea County N.M.

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

Mad Dog 35 BO State Com #1H

Original Hole

Design: Original Hole

Survey Report - Geographic

05 May, 2014





Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	TVD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	MD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO 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 BO State Com #1H				
Site Position:		Northing:	462,296.24 usft	Latitude:	32° 16' 4.086 N
From:	Map	Easting:	776,484.64 usft	Longitude:	103° 26' 19.818 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.48 °

Well	Mad Dog 35 BO State Com #1H				
Well Position	+N/-S	0.0 usft	Northing:	462,296.24 usft	Latitude: 32° 16' 4.086 N
	+E/-W	0.0 usft	Easting:	776,484.64 usft	Longitude: 103° 26' 19.818 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level: 3,426.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/7/2014	7.19	60.18	48,384

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	173.17

Survey Program	Date 5/5/2014				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	10,700.0	VES Gryo Survey #1 (Original Hole)	GyroFlex		
10,818.0	16,150.0	MWD Survey #2 (Original Hole)	MWD	MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	462,296.24	776,484.64	32° 16' 4.086 N	103° 26' 19.818 W
100.0	0.38	317.85	100.0	0.2	-0.2	462,296.49	776,484.41	32° 16' 4.088 N	103° 26' 19.820 W
200.0	0.29	346.20	200.0	0.7	-0.5	462,296.98	776,484.13	32° 16' 4.093 N	103° 26' 19.824 W
300.0	0.44	5.46	300.0	1.4	-0.5	462,297.61	776,484.11	32° 16' 4.099 N	103° 26' 19.824 W
400.0	1.03	33.75	400.0	2.5	0.0	462,298.74	776,484.64	32° 16' 4.110 N	103° 26' 19.817 W
500.0	1.14	27.63	500.0	4.1	1.0	462,300.36	776,485.60	32° 16' 4.126 N	103° 26' 19.806 W
600.0	1.58	42.63	599.9	6.0	2.4	462,302.26	776,487.00	32° 16' 4.145 N	103° 26' 19.790 W
700.0	1.70	21.52	699.9	8.4	3.8	462,304.65	776,488.48	32° 16' 4.169 N	103° 26' 19.772 W
800.0	1.75	32.32	799.9	11.1	5.2	462,307.32	776,489.84	32° 16' 4.195 N	103° 26' 19.756 W
900.0	1.89	38.20	899.8	13.7	7.0	462,309.91	776,491.67	32° 16' 4.220 N	103° 26' 19.734 W



Stryker Directional Survey Report - Geographic



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Project:	Lea County N.M.	TVD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	MD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,000.0	1.89	47.76	999.8	16.1	9.3	462,312.31	776,493.91	32° 16' 4.244 N	103° 26' 19.708 W
1,100.0	2.11	45.34	1,099.7	18.5	11.8	462,314.72	776,496.45	32° 16' 4.268 N	103° 26' 19.678 W
1,200.0	2.51	23.07	1,199.6	21.8	14.0	462,318.03	776,498.61	32° 16' 4.300 N	103° 26' 19.653 W
1,300.0	2.78	21.07	1,299.5	26.1	15.7	462,322.30	776,500.34	32° 16' 4.342 N	103° 26' 19.632 W
1,400.0	2.97	38.32	1,399.4	30.4	18.2	462,326.60	776,502.82	32° 16' 4.385 N	103° 26' 19.603 W
1,500.0	2.96	34.48	1,499.2	34.5	21.3	462,330.76	776,505.89	32° 16' 4.426 N	103° 26' 19.567 W
1,600.0	3.20	29.92	1,599.1	39.1	24.1	462,335.31	776,508.74	32° 16' 4.470 N	103° 26' 19.533 W
1,700.0	3.43	24.25	1,698.9	44.2	26.7	462,340.45	776,511.36	32° 16' 4.521 N	103° 26' 19.502 W
1,800.0	3.76	23.62	1,798.7	49.9	29.3	462,346.19	776,513.91	32° 16' 4.578 N	103° 26' 19.472 W
1,900.0	3.98	17.88	1,898.5	56.3	31.6	462,352.49	776,516.28	32° 16' 4.640 N	103° 26' 19.444 W
2,000.0	4.15	20.72	1,998.3	62.9	34.0	462,359.18	776,518.63	32° 16' 4.706 N	103° 26' 19.416 W
2,100.0	4.74	20.98	2,098.0	70.2	36.8	462,366.42	776,521.39	32° 16' 4.777 N	103° 26' 19.383 W
2,200.0	5.07	26.63	2,197.6	78.0	40.2	462,374.23	776,524.85	32° 16' 4.854 N	103° 26' 19.342 W
2,300.0	5.42	25.54	2,297.2	86.2	44.2	462,382.44	776,528.87	32° 16' 4.935 N	103° 26' 19.294 W
2,400.0	5.67	34.95	2,396.7	94.5	49.1	462,390.75	776,533.73	32° 16' 5.017 N	103° 26' 19.237 W
2,500.0	5.89	28.45	2,496.2	103.1	54.4	462,399.31	776,539.01	32° 16' 5.101 N	103° 26' 19.175 W
2,600.0	5.99	27.70	2,595.7	112.2	59.2	462,408.44	776,543.88	32° 16' 5.191 N	103° 26' 19.117 W
2,700.0	5.92	26.93	2,695.1	121.4	64.0	462,417.66	776,548.64	32° 16' 5.282 N	103° 26' 19.061 W
2,800.0	5.86	22.12	2,794.6	130.7	68.3	462,426.99	776,552.90	32° 16' 5.374 N	103° 26' 19.010 W
2,900.0	5.64	24.74	2,894.1	139.9	72.2	462,436.18	776,556.87	32° 16' 5.465 N	103° 26' 18.963 W
3,000.0	5.32	22.97	2,993.6	148.7	76.1	462,444.91	776,560.74	32° 16' 5.551 N	103° 26' 18.917 W
3,100.0	5.24	32.82	3,093.2	156.8	80.4	462,453.02	776,565.02	32° 16' 5.630 N	103° 26' 18.866 W
3,200.0	4.43	34.36	3,192.9	163.8	85.0	462,460.04	776,569.68	32° 16' 5.700 N	103° 26' 18.811 W
3,300.0	3.46	33.44	3,292.6	169.5	88.9	462,465.75	776,573.52	32° 16' 5.756 N	103° 26' 18.766 W
3,400.0	2.91	43.50	3,392.5	173.9	92.3	462,470.11	776,576.93	32° 16' 5.799 N	103° 26' 18.726 W
3,500.0	1.96	50.21	3,492.4	176.8	95.4	462,473.04	776,579.99	32° 16' 5.827 N	103° 26' 18.690 W
3,600.0	1.03	64.89	3,592.3	178.3	97.5	462,474.52	776,582.12	32° 16' 5.842 N	103° 26' 18.665 W
3,700.0	1.56	90.96	3,692.3	178.6	99.7	462,474.88	776,584.30	32° 16' 5.845 N	103° 26' 18.640 W
3,800.0	2.33	93.35	3,792.3	178.5	103.0	462,474.74	776,587.69	32° 16' 5.843 N	103° 26' 18.600 W
3,900.0	2.62	94.89	3,892.2	178.2	107.4	462,474.42	776,591.99	32° 16' 5.840 N	103° 26' 18.550 W
4,000.0	2.62	92.92	3,992.1	177.9	111.9	462,474.11	776,596.55	32° 16' 5.837 N	103° 26' 18.497 W
4,100.0	2.53	92.99	4,092.0	177.6	116.4	462,473.88	776,601.04	32° 16' 5.834 N	103° 26' 18.445 W
4,200.0	2.40	109.42	4,191.9	176.8	120.6	462,473.07	776,605.22	32° 16' 5.826 N	103° 26' 18.396 W
4,300.0	3.21	105.92	4,291.7	175.4	125.2	462,471.61	776,609.89	32° 16' 5.811 N	103° 26' 18.342 W
4,400.0	4.19	104.06	4,391.5	173.7	131.5	462,469.95	776,616.12	32° 16' 5.794 N	103° 26' 18.270 W
4,500.0	4.06	102.03	4,491.3	172.1	138.5	462,468.32	776,623.13	32° 16' 5.777 N	103° 26' 18.188 W
4,600.0	3.98	101.28	4,591.0	170.7	145.4	462,466.91	776,629.99	32° 16' 5.763 N	103° 26' 18.108 W
4,700.0	3.75	105.95	4,690.8	169.1	151.9	462,465.33	776,636.54	32° 16' 5.746 N	103° 26' 18.032 W
4,800.0	3.31	107.88	4,790.6	167.3	157.8	462,463.55	776,642.43	32° 16' 5.728 N	103° 26' 17.964 W
4,900.0	2.55	101.03	4,890.5	166.0	162.7	462,462.23	776,647.36	32° 16' 5.715 N	103° 26' 17.907 W
5,000.0	2.20	102.29	4,990.4	165.2	166.8	462,461.40	776,651.42	32° 16' 5.706 N	103° 26' 17.859 W
5,100.0	1.49	116.50	5,090.3	164.2	169.8	462,460.41	776,654.46	32° 16' 5.696 N	103° 26' 17.824 W
5,200.0	1.04	129.97	5,190.3	163.0	171.7	462,459.25	776,656.32	32° 16' 5.685 N	103° 26' 17.803 W
5,300.0	1.04	134.39	5,290.3	161.8	173.0	462,458.03	776,657.67	32° 16' 5.672 N	103° 26' 17.787 W
5,400.0	0.92	134.65	5,390.3	160.6	174.2	462,456.83	776,658.89	32° 16' 5.660 N	103° 26' 17.773 W
5,500.0	0.96	132.12	5,490.3	159.5	175.4	462,455.70	776,660.08	32° 16' 5.649 N	103° 26' 17.759 W
5,600.0	0.81	129.43	5,590.3	158.5	176.6	462,454.69	776,661.25	32° 16' 5.639 N	103° 26' 17.746 W
5,700.0	0.59	133.88	5,690.3	157.6	177.5	462,453.89	776,662.16	32° 16' 5.631 N	103° 26' 17.735 W
5,800.0	0.39	111.23	5,790.3	157.2	178.2	462,453.41	776,662.85	32° 16' 5.626 N	103° 26' 17.727 W
5,900.0	0.26	125.69	5,890.2	156.9	178.7	462,453.15	776,663.35	32° 16' 5.624 N	103° 26' 17.721 W
6,000.0	0.62	124.31	5,990.2	156.5	179.3	462,452.71	776,663.98	32° 16' 5.619 N	103° 26' 17.714 W
6,100.0	0.15	104.75	6,090.2	156.1	179.9	462,452.38	776,664.56	32° 16' 5.616 N	103° 26' 17.707 W
6,200.0	0.36	112.17	6,190.2	156.0	180.3	462,452.22	776,664.97	32° 16' 5.614 N	103° 26' 17.702 W
6,300.0	0.57	93.70	6,290.2	155.8	181.1	462,452.07	776,665.76	32° 16' 5.613 N	103° 26' 17.693 W



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	TVD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	MD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,400.0	0.59	58.41	6,390.2	156.1	182.1	462,452.31	776,666.70	32° 16' 5.615 N	103° 26' 17.682 W
6,500.0	0.57	92.16	6,490.2	156.3	183.0	462,452.56	776,667.63	32° 16' 5.617 N	103° 26' 17.671 W
6,600.0	0.76	74.20	6,590.2	156.5	184.1	462,452.72	776,668.77	32° 16' 5.619 N	103° 26' 17.658 W
6,700.0	0.55	50.32	6,690.2	157.0	185.1	462,453.21	776,669.77	32° 16' 5.624 N	103° 26' 17.646 W
6,800.0	0.77	75.86	6,790.2	157.4	186.2	462,453.68	776,670.80	32° 16' 5.628 N	103° 26' 17.634 W
6,900.0	0.30	78.94	6,890.2	157.7	187.1	462,453.90	776,671.70	32° 16' 5.630 N	103° 26' 17.624 W
7,000.0	0.48	69.97	6,990.2	157.8	187.7	462,454.09	776,672.35	32° 16' 5.632 N	103° 26' 17.616 W
7,100.0	0.62	67.92	7,090.2	158.2	188.6	462,454.44	776,673.25	32° 16' 5.636 N	103° 26' 17.606 W
7,200.0	0.39	116.05	7,190.2	158.3	189.4	462,454.49	776,674.06	32° 16' 5.636 N	103° 26' 17.596 W
7,300.0	0.71	75.67	7,290.2	158.3	190.3	462,454.49	776,674.96	32° 16' 5.636 N	103° 26' 17.586 W
7,400.0	0.44	93.76	7,390.2	158.4	191.3	462,454.62	776,675.95	32° 16' 5.637 N	103° 26' 17.574 W
7,500.0	0.47	82.47	7,490.2	158.4	192.1	462,454.65	776,676.74	32° 16' 5.637 N	103° 26' 17.565 W
7,600.0	0.42	82.12	7,590.2	158.5	192.9	462,454.76	776,677.51	32° 16' 5.638 N	103° 26' 17.556 W
7,700.0	0.34	73.91	7,690.2	158.6	193.5	462,454.89	776,678.15	32° 16' 5.640 N	103° 26' 17.549 W
7,800.0	0.72	63.61	7,790.2	159.0	194.4	462,455.25	776,679.00	32° 16' 5.643 N	103° 26' 17.539 W
7,900.0	0.41	333.82	7,890.2	159.6	194.8	462,455.85	776,679.41	32° 16' 5.649 N	103° 26' 17.534 W
8,000.0	0.39	343.55	7,990.2	160.3	194.5	462,456.50	776,679.15	32° 16' 5.655 N	103° 26' 17.537 W
8,100.0	0.60	324.92	8,090.2	161.0	194.1	462,457.25	776,678.76	32° 16' 5.663 N	103° 26' 17.541 W
8,200.0	0.23	325.64	8,190.2	161.6	193.7	462,457.85	776,678.34	32° 16' 5.669 N	103° 26' 17.546 W
8,300.0	0.45	292.37	8,290.2	161.9	193.2	462,458.16	776,677.86	32° 16' 5.672 N	103° 26' 17.552 W
8,400.0	0.64	329.26	8,390.2	162.6	192.6	462,458.79	776,677.22	32° 16' 5.678 N	103° 26' 17.559 W
8,500.0	0.31	338.40	8,490.2	163.3	192.2	462,459.52	776,676.83	32° 16' 5.686 N	103° 26' 17.564 W
8,600.0	0.79	314.70	8,590.1	164.0	191.6	462,460.26	776,676.24	32° 16' 5.693 N	103° 26' 17.570 W
8,700.0	0.79	289.57	8,690.1	164.7	190.5	462,460.97	776,675.10	32° 16' 5.700 N	103° 26' 17.584 W
8,800.0	0.72	285.78	8,790.1	165.1	189.2	462,461.38	776,673.85	32° 16' 5.704 N	103° 26' 17.598 W
8,900.0	0.68	293.05	8,890.1	165.5	188.1	462,461.78	776,672.70	32° 16' 5.708 N	103° 26' 17.612 W
9,000.0	0.57	317.74	8,990.1	166.1	187.2	462,462.38	776,671.82	32° 16' 5.714 N	103° 26' 17.622 W
9,100.0	0.68	309.18	9,090.1	166.9	186.4	462,463.12	776,671.02	32° 16' 5.722 N	103° 26' 17.631 W
9,200.0	0.55	290.25	9,190.1	167.4	185.5	462,463.66	776,670.11	32° 16' 5.727 N	103° 26' 17.641 W
9,300.0	1.44	277.46	9,290.1	167.8	183.8	462,463.99	776,668.42	32° 16' 5.731 N	103° 26' 17.661 W
9,400.0	2.16	274.81	9,390.0	168.1	180.7	462,464.31	776,665.29	32° 16' 5.734 N	103° 26' 17.698 W
9,500.0	3.12	269.58	9,489.9	168.2	176.1	462,464.45	776,660.69	32° 16' 5.736 N	103° 26' 17.751 W
9,600.0	3.37	271.20	9,589.8	168.3	170.4	462,464.49	776,655.03	32° 16' 5.737 N	103° 26' 17.817 W
9,700.0	3.01	268.50	9,689.6	168.2	164.8	462,464.49	776,649.47	32° 16' 5.737 N	103° 26' 17.882 W
9,800.0	2.83	280.65	9,789.5	168.6	159.8	462,464.87	776,644.42	32° 16' 5.741 N	103° 26' 17.941 W
9,900.0	3.07	276.12	9,889.4	169.4	154.7	462,465.62	776,639.33	32° 16' 5.749 N	103° 26' 18.000 W
10,000.0	2.28	272.89	9,989.2	169.8	150.0	462,466.00	776,634.68	32° 16' 5.753 N	103° 26' 18.054 W
10,100.0	1.54	256.27	10,089.2	169.5	146.8	462,465.78	776,631.39	32° 16' 5.751 N	103° 26' 18.092 W
10,200.0	1.03	223.88	10,189.2	168.6	144.8	462,464.82	776,629.46	32° 16' 5.742 N	103° 26' 18.115 W
10,300.0	1.93	211.27	10,289.1	166.5	143.3	462,462.73	776,627.96	32° 16' 5.721 N	103° 26' 18.132 W
10,400.0	1.58	206.32	10,389.1	163.8	141.8	462,460.05	776,626.48	32° 16' 5.695 N	103° 26' 18.150 W
10,500.0	1.71	207.29	10,489.0	161.3	140.5	462,457.49	776,625.18	32° 16' 5.670 N	103° 26' 18.165 W
10,600.0	1.72	215.69	10,589.0	158.7	139.0	462,454.95	776,623.62	32° 16' 5.645 N	103° 26' 18.184 W
10,700.0	2.14	240.52	10,688.9	156.6	136.5	462,452.81	776,621.12	32° 16' 5.624 N	103° 26' 18.213 W
10700' MD VES Gryo									
10,818.0	3.20	204.60	10,806.8	152.5	133.2	462,448.73	776,617.83	32° 16' 5.584 N	103° 26' 18.252 W
10,850.0	4.80	199.40	10,838.7	150.4	132.4	462,446.66	776,617.02	32° 16' 5.563 N	103° 26' 18.261 W
10,881.0	7.40	193.60	10,869.6	147.3	131.5	462,443.49	776,616.12	32° 16' 5.532 N	103° 26' 18.272 W
10,913.0	10.60	192.20	10,901.2	142.4	130.4	462,438.61	776,615.01	32° 16' 5.484 N	103° 26' 18.286 W
10,945.0	12.90	194.60	10,932.5	136.0	128.8	462,432.28	776,613.49	32° 16' 5.421 N	103° 26' 18.304 W
10,977.0	15.20	197.10	10,963.5	128.6	126.7	462,424.81	776,611.35	32° 16' 5.347 N	103° 26' 18.330 W
11,008.0	18.40	198.50	10,993.2	120.0	124.0	462,416.28	776,608.60	32° 16' 5.263 N	103° 26' 18.362 W
11,041.0	20.80	198.70	11,024.3	109.6	120.4	462,405.79	776,605.07	32° 16' 5.160 N	103° 26' 18.405 W
11,072.0	23.50	201.30	11,053.0	98.6	116.4	462,394.82	776,601.06	32° 16' 5.052 N	103° 26' 18.452 W



Stryker Directional Survey Report - Geographic



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Project:	Lea County N.M.	TVD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	MD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,104.0	25.10	198.80	11,082.2	86.2	111.9	462,382.45	776,596.56	32° 16' 4.930 N	103° 26' 18.506 W
11,136.0	26.10	193.70	11,111.0	72.9	108.1	462,369.18	776,592.70	32° 16' 4.799 N	103° 26' 18.552 W
11,167.0	28.50	190.60	11,138.6	59.0	105.1	462,355.28	776,589.73	32° 16' 4.661 N	103° 26' 18.588 W
11,199.0	31.70	189.00	11,166.3	43.2	102.4	462,339.47	776,587.00	32° 16' 4.505 N	103° 26' 18.621 W
11,231.0	35.40	187.10	11,192.9	25.7	99.9	462,321.96	776,584.54	32° 16' 4.332 N	103° 26' 18.652 W
11,262.0	39.30	185.50	11,217.6	7.0	97.9	462,303.27	776,582.49	32° 16' 4.147 N	103° 26' 18.677 W
11,294.0	43.40	183.70	11,241.6	-14.0	96.2	462,282.21	776,580.81	32° 16' 3.939 N	103° 26' 18.699 W
11,326.0	47.70	182.30	11,264.0	-36.8	95.0	462,259.40	776,579.63	32° 16' 3.713 N	103° 26' 18.715 W
11,357.0	50.70	181.80	11,284.2	-60.3	94.2	462,235.95	776,578.79	32° 16' 3.481 N	103° 26' 18.727 W
11,389.0	52.80	181.10	11,304.0	-85.4	93.5	462,210.83	776,578.15	32° 16' 3.233 N	103° 26' 18.737 W
11,421.0	55.70	181.10	11,322.7	-111.4	93.0	462,184.87	776,577.66	32° 16' 2.976 N	103° 26' 18.745 W
11,452.0	59.50	180.90	11,339.3	-137.5	92.6	462,158.70	776,577.20	32° 16' 2.717 N	103° 26' 18.753 W
11,484.0	63.70	180.20	11,354.6	-165.7	92.3	462,130.56	776,576.93	32° 16' 2.439 N	103° 26' 18.759 W
11,516.0	67.00	179.90	11,367.9	-194.8	92.3	462,101.48	776,576.91	32° 16' 2.151 N	103° 26' 18.762 W
11,547.0	69.60	180.20	11,379.4	-223.6	92.2	462,072.68	776,576.88	32° 16' 1.866 N	103° 26' 18.765 W
11,579.0	73.00	181.30	11,389.6	-253.9	91.8	462,042.38	776,576.48	32° 16' 1.566 N	103° 26' 18.773 W
11,611.0	76.10	182.00	11,398.2	-284.7	91.0	462,011.55	776,575.59	32° 16' 1.261 N	103° 26' 18.786 W
11,643.0	79.10	182.10	11,405.0	-315.9	89.8	461,980.32	776,574.48	32° 16' 0.952 N	103° 26' 18.802 W
11,674.0	81.50	182.00	11,410.2	-346.5	88.7	461,949.79	776,573.38	32° 16' 0.650 N	103° 26' 18.818 W
11,706.0	84.20	180.90	11,414.2	-378.2	87.9	461,918.05	776,572.58	32° 16' 0.336 N	103° 26' 18.830 W
11,715.0	84.60	181.60	11,415.1	-387.1	87.7	461,909.09	776,572.39	32° 16' 0.248 N	103° 26' 18.833 W
11,790.0	88.50	180.40	11,419.6	-462.0	86.4	461,834.26	776,571.08	32° 15' 59.507 N	103° 26' 18.856 W
11,813.4	89.60	180.55	11,420.0	-485.4	86.3	461,810.89	776,570.89	32° 15' 59.276 N	103° 26' 18.860 W
LP Mad Dog 35 BO State Com #1H									
11,822.0	90.00	180.60	11,420.0	-494.0	86.2	461,802.26	776,570.80	32° 15' 59.191 N	103° 26' 18.862 W
11,853.0	89.60	180.40	11,420.1	-525.0	85.9	461,771.26	776,570.53	32° 15' 58.884 N	103° 26' 18.868 W
11,948.0	89.80	178.40	11,420.6	-620.0	86.9	461,676.27	776,571.53	32° 15' 57.944 N	103° 26' 18.866 W
12,043.0	94.40	177.60	11,417.2	-714.8	90.2	461,581.42	776,574.84	32° 15' 57.005 N	103° 26' 18.837 W
12,137.0	92.70	176.20	11,411.3	-808.5	95.3	461,487.75	776,579.91	32° 15' 56.078 N	103° 26' 18.787 W
12,232.0	87.80	174.90	11,410.9	-903.2	102.6	461,393.06	776,587.28	32° 15' 55.140 N	103° 26' 18.710 W
12,327.0	87.80	172.60	11,414.6	-997.5	113.0	461,298.70	776,597.61	32° 15' 54.206 N	103° 26' 18.599 W
12,423.0	88.00	173.40	11,418.1	-1,092.8	124.7	461,203.48	776,609.31	32° 15' 53.263 N	103° 26' 18.472 W
12,517.0	89.30	172.30	11,420.3	-1,186.0	136.4	461,110.24	776,621.00	32° 15' 52.339 N	103° 26' 18.345 W
12,612.0	92.00	173.00	11,419.2	-1,280.2	148.5	461,016.04	776,633.15	32° 15' 51.406 N	103° 26' 18.212 W
12,708.0	90.40	170.40	11,417.2	-1,375.2	162.4	460,921.08	776,647.01	32° 15' 50.465 N	103° 26' 18.060 W
12,802.0	92.60	170.90	11,414.8	-1,467.9	177.6	460,828.37	776,662.27	32° 15' 49.546 N	103° 26' 17.892 W
12,897.0	92.00	170.90	11,410.9	-1,561.6	192.6	460,734.64	776,677.29	32° 15' 48.618 N	103° 26' 17.726 W
12,992.0	90.80	169.70	11,408.6	-1,655.2	208.7	460,641.03	776,693.29	32° 15' 47.690 N	103° 26' 17.549 W
13,087.0	93.50	173.00	11,405.1	-1,749.0	222.9	460,547.20	776,707.56	32° 15' 46.760 N	103° 26' 17.391 W
13,182.0	92.10	174.10	11,400.4	-1,843.3	233.6	460,452.91	776,718.22	32° 15' 45.827 N	103° 26' 17.277 W
13,277.0	93.60	174.90	11,395.7	-1,937.8	242.7	460,358.47	776,727.32	32° 15' 44.891 N	103° 26' 17.180 W
13,372.0	91.40	175.30	11,391.6	-2,032.3	250.8	460,263.91	776,735.42	32° 15' 43.955 N	103° 26' 17.095 W
13,467.0	90.90	175.50	11,389.6	-2,127.0	258.4	460,169.24	776,743.04	32° 15' 43.018 N	103° 26' 17.015 W
13,562.0	89.90	174.60	11,389.0	-2,221.6	266.6	460,074.60	776,751.24	32° 15' 42.080 N	103° 26' 16.929 W
13,657.0	91.30	173.40	11,388.0	-2,316.1	276.5	459,980.13	776,761.17	32° 15' 41.145 N	103° 26' 16.822 W
13,752.0	90.40	172.30	11,386.6	-2,410.4	288.4	459,885.88	776,772.99	32° 15' 40.211 N	103° 26' 16.694 W
13,847.0	93.00	173.90	11,383.8	-2,504.6	299.8	459,791.62	776,784.40	32° 15' 39.278 N	103° 26' 16.570 W
13,942.0	92.00	173.00	11,379.6	-2,598.9	310.6	459,697.33	776,795.22	32° 15' 38.344 N	103° 26' 16.453 W
14,037.0	89.70	170.50	11,378.2	-2,692.9	324.2	459,603.34	776,808.85	32° 15' 37.412 N	103° 26' 16.304 W
14,132.0	89.80	169.50	11,378.6	-2,786.5	340.7	459,509.79	776,825.35	32° 15' 36.485 N	103° 26' 16.121 W
14,227.0	88.50	168.10	11,380.0	-2,879.6	359.2	459,416.61	776,843.80	32° 15' 35.562 N	103° 26' 15.915 W
14,322.0	90.30	169.70	11,381.0	-2,972.8	377.4	459,323.40	776,862.08	32° 15' 34.638 N	103° 26' 15.711 W
14,417.0	90.10	168.30	11,380.7	-3,066.1	395.6	459,230.15	776,880.21	32° 15' 33.714 N	103° 26' 15.509 W
14,512.0	92.20	170.00	11,378.8	-3,159.4	413.5	459,136.87	776,898.09	32° 15' 32.789 N	103° 26' 15.310 W



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Mad Dog 35 BO State Com #1H
Project:	Lea County N.M.	TVD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Site:	Section 35-23S-34E Mad Dog 35 BO State Com #1H	MD Reference:	GL 3426 + 20 @ 3446.0usft (Patterson #80)
Well:	Mad Dog 35 BO 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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,607.0	91.80	168.80	11,375.5	-3,252.7	430.9	459,043.55	776,915.55	32° 15' 31.864 N	103° 26' 15.116 W
14,702.0	91.40	170.40	11,372.8	-3,346.1	448.1	458,950.15	776,932.70	32° 15' 30.939 N	103° 26' 14.925 W
14,796.0	90.00	168.30	11,371.7	-3,438.5	465.4	458,857.79	776,950.06	32° 15' 30.023 N	103° 26' 14.732 W
14,891.0	91.50	171.20	11,370.4	-3,531.9	482.3	458,764.32	776,966.97	32° 15' 29.097 N	103° 26' 14.544 W
14,987.0	92.40	175.50	11,367.2	-3,627.2	493.4	458,669.05	776,978.08	32° 15' 28.154 N	103° 26' 14.424 W
15,082.0	93.20	175.10	11,362.5	-3,721.8	501.2	458,574.48	776,985.85	32° 15' 27.217 N	103° 26' 14.343 W
15,177.0	93.50	176.90	11,357.0	-3,816.4	507.8	458,479.88	776,992.47	32° 15' 26.281 N	103° 26' 14.275 W
15,272.0	91.30	176.30	11,353.0	-3,911.1	513.5	458,385.14	776,998.09	32° 15' 25.343 N	103° 26' 14.218 W
15,303.0	90.60	175.80	11,352.5	-3,942.0	515.6	458,354.21	777,000.23	32° 15' 25.036 N	103° 26' 14.197 W
15,335.0	89.50	174.10	11,352.4	-3,973.9	518.4	458,322.34	777,003.05	32° 15' 24.721 N	103° 26' 14.167 W
15,366.0	88.80	172.30	11,352.9	-4,004.7	522.1	458,291.56	777,006.72	32° 15' 24.416 N	103° 26' 14.127 W
15,461.0	89.10	174.40	11,354.6	-4,099.0	533.1	458,197.22	777,017.71	32° 15' 23.482 N	103° 26' 14.008 W
15,556.0	88.80	176.00	11,356.4	-4,193.7	541.0	458,102.57	777,025.66	32° 15' 22.544 N	103° 26' 13.925 W
15,651.0	88.40	174.80	11,358.7	-4,288.3	548.6	458,007.91	777,033.28	32° 15' 21.607 N	103° 26' 13.845 W
15,746.0	89.10	174.20	11,360.8	-4,382.9	557.7	457,913.37	777,042.38	32° 15' 20.671 N	103° 26' 13.749 W
15,841.0	90.10	174.90	11,361.4	-4,477.4	566.8	457,818.81	777,051.40	32° 15' 19.734 N	103° 26' 13.653 W
15,936.0	92.40	174.60	11,359.4	-4,572.0	575.5	457,724.23	777,060.09	32° 15' 18.798 N	103° 26' 13.561 W
16,031.0	92.40	174.10	11,355.4	-4,666.5	584.8	457,629.78	777,069.44	32° 15' 17.862 N	103° 26' 13.461 W
16,098.0	92.60	173.20	11,352.5	-4,733.0	592.2	457,563.25	777,076.84	32° 15' 17.203 N	103° 26' 13.381 W
16,150.0	92.60	173.20	11,350.1	-4,784.6	598.4	457,511.67	777,082.99	32° 15' 16.693 N	103° 26' 13.315 W

16150' MD Projected to Bit - PBHL Mad Dog 35 BO State Com #1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,700.0	10,688.9	156.6	136.5	10700' MD VES Gryo
16,150.0	11,350.1	-4,784.6	598.4	16150' MD Projected to Bit