



15-4695

Mewbourne Oil Company .

Eddy County, New Mexico

Section 20-18S-30E Aries 20 MP Federal Com

Aries 20 MP Federal Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

25 November, 2013





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Aries 20 MP Federal Com #1H
Project:	Eddy County New Mexico	TVD Reference:	GL 3485 + 20 @ 3505.0usft (Patterson #45)
Site:	Section 20-18S-30E Aries 20 MP Federal Com	MD Reference:	GL 3485 + 20 @ 3505.0usft (Patterson #45)
Well:	Aries 20 MP Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1: Single User.Db

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

Site:	Section 20-18S-30E Aries 20 MP Federal Com		
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Site Position:	Northing:	628,434.00 usft	Latitude:	32° 43' 37.995 N
From: Map	Easting:	602,159.70 usft	Longitude:	104° 0' 4.077 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.18 °

Well:	Aries 20 MP Federal Com #1H		
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Well Position	+N-S	0.0 usft	Northing:	628,434.00 usft	Latitude:	32° 43' 37.995 N
	+E-W	0.0 usft	Easting:	602,159.70 usft	Longitude:	104° 0' 4.077 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,485.0 usft

Wellbore:	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/29/2013	7.53	60.52	48,634

Survey Program	Date 11/25/2013		
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From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,760.0	MS Gyro Survey #1 (Original Hole)	GyroFlex	
6,770.0	11,720.0	Survey #2 (Original Hole)	MWD	MWD - Standard

Survey									
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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	0.08	113.85	100.0	0.0	0.1	0.1	0.08	0.08	0.00
200.0	0.07	229.62	200.0	-0.1	0.1	0.1	0.13	-0.01	115.77
300.0	0.13	218.34	300.0	-0.2	0.0	0.0	0.06	0.06	-11.28
400.0	0.13	212.90	400.0	-0.4	-0.2	-0.2	0.01	0.00	-5.44
500.0	0.23	221.20	500.0	-0.7	-0.4	-0.4	0.10	0.10	8.30
600.0	0.14	221.35	600.0	-0.9	-0.6	-0.6	0.09	-0.09	0.15
700.0	0.10	281.45	700.0	-1.0	-0.7	-0.7	0.13	-0.04	60.10
800.0	0.04	167.60	800.0	-1.0	-0.8	-0.8	0.12	-0.06	-113.85
900.0	0.24	43.24	900.0	-0.9	-0.7	-0.7	0.26	0.20	-124.36
1,000.0	0.46	45.77	1,000.0	-0.4	-0.2	-0.2	0.22	0.22	2.53
1,100.0	1.03	70.17	1,100.0	0.1	0.9	0.9	0.64	0.57	24.40
1,200.0	1.41	70.68	1,200.0	0.9	2.9	2.9	0.38	0.38	0.51
1,300.0	1.42	70.68	1,299.9	1.7	5.2	5.2	0.01	0.01	0.00
1,400.0	1.47	68.80	1,399.9	2.5	7.6	7.6	0.07	0.05	-1.88
1,500.0	1.68	62.77	1,499.9	3.7	10.1	10.0	0.27	0.21	-6.03



Stryker Directional Survey Report



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Site:	Section 20 18S 30E Aries 20 MP Federal Com	MD Reference:	GL 3485 + 20 @ 3505.0usft (Patterson #45)
Well:	Aries 20 MP Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

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)
1,600.0	1.99	55.52	1,599.8	5.3	12.8	12.7	0.39	0.31	-7.25
1,700.0	2.17	49.21	1,699.7	7.6	15.7	15.6	0.29	0.18	-6.31
1,800.0	2.32	40.94	1,799.7	10.3	18.5	18.3	0.36	0.15	-8.27
1,900.0	2.28	37.33	1,899.6	13.4	21.0	20.8	0.15	-0.04	-3.61
2,000.0	2.43	42.09	1,999.5	16.6	23.6	23.3	0.25	0.15	4.76
2,100.0	2.59	40.26	2,099.4	19.9	26.5	26.2	0.18	0.16	-1.83
2,200.0	2.72	39.10	2,199.3	23.5	29.5	29.1	0.14	0.13	-1.16
2,300.0	2.88	33.61	2,299.2	27.4	32.3	31.9	0.31	0.16	-5.49
2,400.0	2.99	30.58	2,399.1	31.7	35.1	34.5	0.19	0.11	-3.03
2,500.0	3.06	33.24	2,498.9	36.2	37.8	37.3	0.16	0.07	2.66
2,600.0	2.97	33.30	2,598.8	40.6	40.7	40.1	0.09	-0.09	0.06
2,700.0	3.07	32.94	2,698.6	45.0	43.6	42.9	0.10	0.10	-0.36
2,800.0	3.03	33.13	2,798.5	49.5	46.5	45.7	0.04	-0.04	0.19
2,900.0	3.14	34.07	2,898.3	54.0	49.5	48.6	0.12	0.11	0.94
3,000.0	3.12	34.24	2,998.2	58.5	52.6	51.6	0.02	-0.02	0.17
3,100.0	3.24	30.74	3,098.0	63.2	55.5	54.5	0.23	0.12	-3.50
3,200.0	2.81	29.49	3,197.9	67.7	58.2	57.1	0.44	-0.43	-1.25
3,300.0	2.48	36.21	3,297.8	71.6	60.7	59.5	0.45	-0.33	6.72
3,400.0	2.30	36.66	3,397.7	74.9	63.1	61.9	0.18	-0.18	0.45
3,500.0	1.90	36.19	3,497.6	77.9	65.3	64.0	0.40	-0.40	-0.47
3,600.0	1.85	40.52	3,597.6	80.5	67.3	66.0	0.15	-0.05	4.33
3,700.0	1.35	40.52	3,697.6	82.6	69.2	67.8	0.50	-0.50	0.00
3,800.0	1.27	40.88	3,797.5	84.3	70.7	69.3	0.08	-0.08	0.36
3,900.0	1.32	39.27	3,897.5	86.0	72.1	70.7	0.06	0.05	-1.61
4,000.0	1.23	31.94	3,997.5	87.8	73.4	72.0	0.19	-0.09	-7.33
4,100.0	1.40	24.71	4,097.5	89.9	74.5	73.0	0.24	0.17	-7.23
4,200.0	0.82	48.29	4,197.4	91.5	75.5	74.0	0.73	-0.58	23.58
4,300.0	0.58	75.07	4,297.4	92.1	76.6	75.0	0.40	-0.24	26.78
4,400.0	0.42	157.87	4,397.4	91.9	77.2	75.7	0.67	-0.16	82.80
4,500.0	0.56	196.29	4,497.4	91.0	77.2	75.7	0.35	0.14	38.42
4,600.0	0.84	218.29	4,597.4	90.0	76.6	75.1	0.38	0.28	22.00
4,700.0	1.36	230.47	4,697.4	88.7	75.2	73.8	0.57	0.52	12.18
4,800.0	1.97	227.74	4,797.3	86.8	73.0	71.6	0.61	0.61	-2.73
4,900.0	2.07	226.78	4,897.3	84.4	70.4	69.1	0.11	0.10	-0.96
5,000.0	2.21	234.14	4,997.2	82.0	67.6	66.2	0.31	0.14	7.36
5,100.0	2.37	239.31	5,097.1	79.8	64.2	62.9	0.26	0.16	5.17
5,200.0	2.55	239.63	5,197.0	77.6	60.5	59.3	0.18	0.18	0.32
5,300.0	2.75	238.59	5,296.9	75.3	56.6	55.3	0.21	0.20	-1.04
5,400.0	2.94	241.30	5,396.8	72.8	52.3	51.1	0.23	0.19	2.71
5,500.0	2.85	241.47	5,496.7	70.4	47.8	46.7	0.09	-0.09	0.17
5,600.0	2.31	242.34	5,596.6	68.2	43.9	42.7	0.54	-0.54	0.87
5,700.0	1.81	240.35	5,696.5	66.5	40.7	39.6	0.51	-0.50	-1.99
5,800.0	1.90	244.91	5,796.5	65.0	37.8	36.8	0.17	0.09	4.56
5,900.0	2.23	258.81	5,896.4	64.0	34.4	33.4	0.60	0.33	13.90



Stryker Directional Survey Report



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Site:	Section 20-18S-30E Aries 20 MP Federal Com	MD Reference:	GL 3485 + 20 @ 3505.0usft (Patterson #45)
Well:	Aries 20 MP Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)
6,000.0	1.40	241.44	5,996.4	63.0	31.4	30.4	0.99	-0.83	-17.37
6,100.0	0.75	199.80	6,096.3	61.8	30.1	29.1	0.98	-0.65	-41.64
6,200.0	0.93	152.00	6,196.3	60.5	30.3	29.3	0.70	0.18	-47.80
6,300.0	1.05	148.98	6,296.3	59.0	31.2	30.2	0.13	0.12	-3.02
6,400.0	0.38	339.73	6,396.3	58.5	31.5	30.6	1.43	-0.67	-169.25
6,500.0	0.95	316.52	6,496.3	59.4	30.8	29.9	0.62	0.57	-23.21
6,600.0	1.21	298.28	6,596.3	60.5	29.3	28.3	0.43	0.26	-18.24
6,700.0	1.50	286.62	6,696.3	61.4	27.1	26.1	0.40	0.29	-11.66
6,760.0	1.47	285.25	6,756.2	61.8	25.6	24.6	0.08	-0.05	-2.28
6760 MD MS Gyro Survey									
6,796.0	0.40	42.40	6,792.2	62.0	25.3	24.3	4.70	-2.97	325.42
6,828.0	3.30	97.90	6,824.2	62.0	26.3	25.3	9.66	9.06	173.44
6,860.0	6.30	99.20	6,856.1	61.6	28.9	27.9	9.38	9.38	4.06
6,891.0	9.50	97.60	6,886.8	61.0	33.1	32.1	10.35	10.32	-5.16
6,923.0	12.40	95.80	6,918.2	60.3	39.2	38.2	9.12	9.06	-5.63
6,955.0	15.90	94.90	6,949.2	59.5	47.0	46.0	10.96	10.94	-2.81
6,987.0	19.00	97.20	6,979.8	58.5	56.5	55.5	9.92	9.69	7.19
7,018.0	21.40	99.20	7,008.9	57.0	67.1	66.2	8.06	7.74	6.45
7,050.0	23.70	100.60	7,038.4	54.9	79.2	78.3	7.38	7.19	4.38
7,082.0	26.50	101.50	7,067.4	52.2	92.5	91.6	8.83	8.75	2.81
7,113.0	30.00	101.50	7,094.7	49.3	106.9	106.1	11.29	11.29	0.00
7,145.0	33.50	101.40	7,121.9	46.0	123.4	122.6	10.94	10.94	-0.31
7,177.0	36.70	100.80	7,148.1	42.4	141.4	140.7	10.06	10.00	-1.88
7,209.0	40.40	99.80	7,173.1	38.9	161.0	160.4	11.73	11.56	-3.13
7,240.0	44.40	98.10	7,196.0	35.6	181.7	181.1	13.42	12.90	-5.48
7,272.0	49.80	97.10	7,217.8	32.6	204.9	204.4	17.03	16.88	-3.13
7,304.0	53.60	97.10	7,237.6	29.5	229.8	229.3	11.88	11.88	0.00
7,336.0	56.00	97.80	7,256.0	26.1	255.8	255.3	7.71	7.50	2.19
7,367.0	58.60	98.10	7,272.8	22.4	281.6	281.2	8.43	8.39	0.97
7,399.0	60.90	98.10	7,288.9	18.6	309.0	308.6	7.19	7.19	0.00
7,431.0	63.50	97.60	7,303.8	14.7	337.0	336.7	8.24	8.13	-1.56
7,463.0	67.00	97.00	7,317.2	11.0	365.8	365.6	11.07	10.94	-1.88
7,494.0	71.70	96.20	7,328.1	7.7	394.6	394.5	15.35	15.16	-2.58
7,526.0	76.40	95.40	7,336.9	4.6	425.2	425.1	14.88	14.69	-2.50
7,558.0	80.40	94.50	7,343.4	1.9	456.5	456.4	12.80	12.50	-2.81
7,653.0	86.40	93.20	7,354.3	-4.5	550.6	550.6	6.46	6.32	-1.37
7,685.0	86.40	92.70	7,356.3	-6.1	582.5	582.5	1.56	0.00	-1.56
7,717.0	88.80	91.60	7,357.6	-7.3	614.4	614.4	8.25	7.50	-3.44
7,748.0	90.50	89.80	7,357.8	-7.7	645.4	645.4	7.99	5.48	-5.81
7,812.0	90.20	89.50	7,357.4	-7.3	709.4	709.4	0.66	-0.47	-0.47
7,875.0	88.80	91.60	7,358.0	-7.9	772.4	772.4	4.01	-2.22	3.33
7,937.0	88.30	91.10	7,359.5	-9.4	834.4	834.4	1.14	-0.81	-0.81
8,001.0	88.00	90.90	7,361.6	-10.5	898.3	898.4	0.56	-0.47	-0.31



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)
8,064.0	88.70	90.90	7,363.4	-11.5	961.3	961.3	1.11	1.11	0.00
8,127.0	88.00	90.40	7,365.2	-12.2	1,024.2	1,024.3	1.37	-1.11	-0.79
8,190.0	91.30	90.40	7,365.6	-12.6	1,087.2	1,087.3	5.24	5.24	0.00
8,253.0	92.10	89.80	7,363.8	-12.7	1,150.2	1,150.3	1.59	1.27	-0.95
8,316.0	91.80	91.40	7,361.6	-13.4	1,213.2	1,213.2	2.58	-0.48	2.54
8,379.0	89.90	91.60	7,360.7	-15.0	1,276.1	1,276.2	3.03	-3.02	0.32
8,443.0	88.20	91.20	7,361.7	-16.6	1,340.1	1,340.2	2.73	-2.66	-0.63
8,506.0	88.20	92.00	7,363.7	-18.4	1,403.0	1,403.2	1.27	0.00	1.27
8,569.0	88.00	92.10	7,365.8	-20.6	1,466.0	1,466.1	0.35	-0.32	0.16
8,632.0	89.30	91.80	7,367.3	-22.8	1,528.9	1,529.1	2.12	2.06	-0.48
8,695.0	88.80	91.40	7,368.3	-24.5	1,591.9	1,592.1	1.02	-0.79	-0.63
8,759.0	89.20	91.20	7,369.5	-26.0	1,655.9	1,656.1	0.70	0.63	-0.31
8,822.0	89.70	90.90	7,370.1	-27.1	1,718.8	1,719.1	0.93	0.79	-0.48
8,885.0	88.50	91.10	7,371.0	-28.2	1,781.8	1,782.0	1.93	-1.90	0.32
8,948.0	88.50	91.40	7,372.7	-29.6	1,844.8	1,845.0	0.48	0.00	0.48
9,012.0	87.90	91.60	7,374.7	-31.3	1,908.7	1,909.0	0.99	-0.94	0.31
9,074.0	89.20	90.40	7,376.3	-32.3	1,970.7	1,971.0	2.85	2.10	-1.94
9,138.0	90.00	91.10	7,376.7	-33.2	2,034.7	2,035.0	1.66	1.25	1.09
9,201.0	89.90	90.90	7,376.8	-34.3	2,097.7	2,098.0	0.35	-0.16	-0.32
9,264.0	88.60	88.40	7,377.6	-33.9	2,160.7	2,160.9	4.47	-2.06	-3.97
9,328.0	87.40	87.00	7,379.8	-31.3	2,224.6	2,224.8	2.88	-1.88	-2.19
9,359.0	88.50	86.70	7,380.9	-29.6	2,255.5	2,255.7	3.68	3.55	-0.97
9,390.0	90.10	86.70	7,381.3	-27.8	2,286.5	2,286.6	5.16	5.16	0.00
9,422.0	91.00	87.60	7,381.0	-26.3	2,318.4	2,318.5	3.98	2.81	2.81
9,453.0	91.80	88.80	7,380.3	-25.3	2,349.4	2,349.5	4.65	2.58	3.87
9,485.0	92.60	89.70	7,379.0	-24.9	2,381.4	2,381.4	3.76	2.50	2.81
9,517.0	92.40	89.70	7,377.6	-24.7	2,413.3	2,413.4	0.63	-0.63	0.00
9,549.0	91.60	90.90	7,376.5	-24.9	2,445.3	2,445.4	4.51	-2.50	3.75
9,580.0	91.20	90.70	7,375.8	-25.3	2,476.3	2,476.4	1.44	-1.29	-0.65
9,612.0	89.70	92.80	7,375.5	-26.3	2,508.3	2,508.4	8.06	-4.69	6.56
9,643.0	88.00	91.60	7,376.1	-27.5	2,539.2	2,539.4	6.71	-5.48	-3.87
9,675.0	87.10	90.70	7,377.5	-28.1	2,571.2	2,571.3	3.98	-2.81	-2.81
9,707.0	86.90	91.10	7,379.2	-28.6	2,603.2	2,603.3	1.40	-0.63	1.25
9,739.0	88.30	91.60	7,380.5	-29.4	2,635.1	2,635.3	4.65	4.38	1.56
9,770.0	89.00	91.80	7,381.2	-30.3	2,666.1	2,666.2	2.35	2.26	0.65
9,834.0	88.30	91.60	7,382.8	-32.2	2,730.1	2,730.2	1.14	-1.09	-0.31
9,897.0	89.90	91.80	7,383.7	-34.0	2,793.0	2,793.2	2.56	2.54	0.32
9,960.0	91.10	90.90	7,383.2	-35.5	2,856.0	2,856.2	2.38	1.90	-1.43
10,024.0	90.30	89.30	7,382.4	-35.6	2,920.0	2,920.2	2.79	-1.25	-2.50
10,087.0	90.70	89.80	7,381.9	-35.2	2,983.0	2,983.2	1.02	0.63	0.79
10,150.0	91.50	91.10	7,380.6	-35.6	3,046.0	3,046.1	2.42	1.27	2.06
10,213.0	89.10	92.00	7,380.3	-37.3	3,108.9	3,109.1	4.07	-3.81	1.43
10,277.0	89.30	92.70	7,381.2	-40.0	3,172.9	3,173.1	1.14	0.31	1.09



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: Aries 20 MP Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3485 + 20 @ 3505.0usft (Patterson #45)
Site:	Section 20-18S-30E Aries 20 MP Federal Com	MD Reference:	GL 3485 + 20 @ 3505.0usft (Patterson #45)
Well:	Aries 20 MP Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)
10,340.0	89.30	94.20	7,382.0	-43.8	3,235.8	3,236.0	2.38	0.00	2.38
10,372.0	89.40	94.60	7,382.3	-46.2	3,267.7	3,268.0	1.29	0.31	1.25
10,403.0	87.90	93.40	7,383.1	-48.4	3,298.6	3,298.9	6.20	-4.84	-3.87
10,435.0	87.40	93.20	7,384.4	-50.2	3,330.5	3,330.9	1.68	-1.56	-0.63
10,467.0	87.40	93.40	7,385.8	-52.1	3,362.4	3,362.8	0.62	0.00	0.63
10,530.0	87.60	92.50	7,388.6	-55.3	3,425.3	3,425.7	1.46	0.32	-1.43
10,562.0	87.50	92.50	7,390.0	-56.7	3,457.2	3,457.7	0.31	-0.31	0.00
10,625.0	88.70	92.00	7,392.0	-59.2	3,520.1	3,520.6	2.06	1.90	-0.79
10,688.0	88.30	91.80	7,393.7	-61.3	3,583.1	3,583.6	0.71	-0.63	-0.32
10,752.0	90.10	91.60	7,394.6	-63.2	3,647.0	3,647.6	2.83	2.81	-0.31
10,815.0	91.40	91.80	7,393.8	-65.0	3,710.0	3,710.6	2.09	2.06	0.32
10,878.0	89.40	91.40	7,393.3	-66.8	3,773.0	3,773.5	3.24	-3.17	-0.63
10,941.0	90.10	92.10	7,393.6	-68.7	3,835.9	3,836.5	1.57	1.11	1.11
11,005.0	90.20	92.50	7,393.4	-71.3	3,899.9	3,900.5	0.64	0.16	0.63
11,068.0	86.90	87.20	7,395.0	-71.1	3,962.8	3,963.5	9.91	-5.24	-8.41
11,100.0	87.10	87.60	7,396.7	-69.7	3,994.8	3,995.4	1.40	0.63	1.25
11,131.0	88.60	89.00	7,397.9	-68.7	4,025.7	4,026.3	6.62	4.84	4.52
11,163.0	90.10	88.60	7,398.2	-68.1	4,057.7	4,058.3	4.85	4.69	-1.25
11,194.0	90.50	88.80	7,398.1	-67.4	4,088.7	4,089.3	1.44	1.29	0.65
11,258.0	90.10	88.40	7,397.7	-65.8	4,152.7	4,153.2	0.88	-0.63	-0.63
11,321.0	91.30	90.20	7,397.0	-65.0	4,215.7	4,216.2	3.43	1.90	2.86
11,353.0	91.10	90.20	7,396.3	-65.1	4,247.7	4,248.2	0.63	-0.63	0.00
11,384.0	90.10	89.10	7,396.0	-65.0	4,278.7	4,279.1	4.80	-3.23	-3.55
11,416.0	89.20	87.40	7,396.2	-64.0	4,310.6	4,311.1	6.01	-2.81	-5.31
11,448.0	88.80	89.30	7,396.7	-63.1	4,342.6	4,343.1	6.07	-1.25	5.94
11,511.0	89.10	89.00	7,397.9	-62.1	4,405.6	4,406.0	0.67	0.48	-0.48
11,574.0	89.20	89.80	7,398.8	-61.5	4,468.6	4,469.0	1.28	0.16	1.27
11,638.0	88.80	89.00	7,399.9	-60.8	4,532.6	4,533.0	1.40	-0.63	-1.25
11,666.0	87.50	87.70	7,400.8	-60.0	4,560.5	4,560.9	6.56	-4.64	-4.64
11,720.0	87.50	87.70	7,403.2	-57.8	4,614.5	4,614.8	0.00	0.00	0.00
11,720' MD Projected to Bit									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,760.0	6,756.2	61.8	25.6	6760' MD MS Gyro Survey
11,720.0	7,403.2	-57.8	4,614.5	11720' MD Projected to Bit