



Mewbourne Oil Company .

Eddy County, New Mexico
Section 7-20S-30E Two Mesas 7 MP
Two Mesas 7 MP Federal #1H

Original Hole

15-41420

Design: Original Hole

Standard Survey Report

02 December, 2013





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Two Mesas 7 MP Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3314 + 20 @ 3334.0usft (Patterson #41)
Site:	Section 7-20S-30E Two Mesas 7 MP	MD Reference:	GL 3314 + 20 @ 3334.0usft (Patterson #41)
Well:	Two Mesas 7 MP Federal #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 7-20S-30E Two Mesas 7 MP
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Site Position:		Northing:	575,453.88 usft	Latitude:	32° 34' 53.886 N
From:	Map	Easting:	596,908.58 usft	Longitude:	104° 1' 7.385 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.17 °

Well:	Two Mesas 7 MP Federal #1H					
Well Position	+N/-S	0.0 usft	Northing:	575,453.88 usft	Latitude:	32° 34' 53.886 N
	+E/-W	0.0 usft	Easting:	596,908.58 usft	Longitude:	104° 1' 7.385 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,314.0 usft	

Wellbore:	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/19/2013	7.52	60.38	48,540

Survey/Program		Date	12/2/2013	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,728.0	VES Gyro Survey #1 (Original Hole)	MWD	MWD - Standard
7,827.0	12,770.0	Survey #2 (Original Hole)	MWD	MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.16	220.33	100.0	-0.1	-0.1	-0.1	0.16	0.16	0.00
200.0	0.61	328.41	200.0	0.2	-0.5	-0.5	0.68	0.45	108.08
300.0	0.68	313.01	300.0	1.1	-1.2	-1.2	0.19	0.07	-15.40
400.0	0.51	323.44	400.0	1.9	-1.9	-1.9	0.20	-0.17	10.43
500.0	0.87	321.01	500.0	2.8	-2.6	-2.6	0.36	0.36	-2.43
600.0	0.66	306.59	600.0	3.7	-3.6	-3.5	0.28	-0.21	-14.42
700.0	0.76	354.74	700.0	4.7	-4.1	-4.1	0.59	0.10	48.15
800.0	1.82	51.83	799.9	6.4	-2.9	-2.9	1.54	1.06	57.09
900.0	2.88	81.98	899.9	7.7	0.8	0.9	1.59	1.06	30.15
1,000.0	3.07	76.91	999.7	8.7	5.9	6.0	0.32	0.19	-5.07
1,100.0	3.07	74.25	1,099.6	10.0	11.1	11.1	0.14	0.00	-2.66
1,200.0	2.98	67.89	1,199.4	11.7	16.1	16.1	0.35	-0.09	-6.36
1,300.0	2.99	62.58	1,299.3	13.9	20.8	20.9	0.28	0.01	-5.31
1,400.0	3.34	64.44	1,399.2	16.4	25.8	25.8	0.36	0.35	1.86
1,500.0	3.67	67.86	1,499.0	18.8	31.4	31.4	0.39	0.33	3.42



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Two, Mesas 7, MP, Federal #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3314 + 20' @ 3334.0usft (Patterson #41)
Site:	Section 7, 20S, 30E, Two Mesas 7, MP	MD Reference:	GL 3314 + 20' @ 3334.0usft (Patterson #41)
Well:	Two Mesas 7, MP, Federal #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)	
1,600.0	3.71	62.41	1,598.8	21.5	37.2	37.2	0.35	0.04	-5.45	
1,700.0	3.88	60.74	1,698.5	24.7	43.0	43.1	0.20	0.17	-1.67	
1,800.0	3.92	54.70	1,798.3	28.3	48.8	48.8	0.41	0.04	-6.04	
1,900.0	3.29	61.98	1,898.1	31.6	54.1	54.1	0.78	-0.63	7.28	
2,000.0	3.34	51.24	1,997.9	34.8	58.9	59.0	0.62	0.05	-10.74	
2,100.0	2.96	48.40	2,097.8	38.3	63.1	63.2	0.41	-0.38	-2.84	
2,200.0	2.54	55.73	2,197.7	41.3	66.9	66.9	0.55	-0.42	7.33	
2,300.0	2.43	70.83	2,297.6	43.2	70.7	70.8	0.66	-0.11	15.10	
2,400.0	2.04	61.59	2,397.5	44.8	74.3	74.3	0.53	-0.39	-9.24	
2,500.0	1.31	66.98	2,497.5	46.1	76.9	77.0	0.75	-0.73	5.39	
2,600.0	1.49	86.02	2,597.4	46.6	79.2	79.3	0.50	0.18	19.04	
2,700.0	1.54	53.25	2,697.4	47.5	81.6	81.7	0.86	0.05	-32.77	
2,800.0	1.38	31.29	2,797.4	49.3	83.3	83.4	0.58	-0.16	-21.96	
2,900.0	1.24	24.27	2,897.3	51.4	84.4	84.5	0.21	-0.14	-7.02	
3,000.0	1.12	13.20	2,997.3	53.3	85.0	85.1	0.26	-0.12	-11.07	
3,100.0	1.07	4.05	3,097.3	55.2	85.3	85.4	0.18	-0.05	-9.15	
3,200.0	0.78	37.15	3,197.3	56.7	85.8	85.9	0.60	-0.29	33.10	
3,300.0	0.87	40.55	3,297.3	57.8	86.7	86.8	0.10	0.09	3.40	
3,400.0	0.80	30.14	3,397.3	59.0	87.6	87.7	0.17	-0.07	-10.41	
3,500.0	0.69	36.44	3,497.3	60.0	88.3	88.4	0.14	-0.11	6.30	
3,600.0	0.71	35.86	3,597.3	61.0	89.0	89.1	0.02	0.02	-0.58	
3,700.0	0.66	29.65	3,697.2	62.0	89.6	89.7	0.09	-0.05	-6.21	
3,800.0	0.63	28.73	3,797.2	63.0	90.2	90.3	0.03	-0.03	-0.92	
3,900.0	0.62	22.53	3,897.2	64.0	90.7	90.8	0.07	-0.01	-6.20	
4,000.0	0.83	27.99	3,997.2	65.1	91.2	91.3	0.22	0.21	5.46	
4,100.0	0.87	33.86	4,097.2	66.4	92.0	92.1	0.10	0.04	5.87	
4,200.0	1.09	41.93	4,197.2	67.7	93.0	93.1	0.26	0.22	8.07	
4,300.0	1.23	43.20	4,297.2	69.2	94.4	94.5	0.14	0.14	1.27	
4,400.0	1.42	50.18	4,397.2	70.8	96.1	96.2	0.25	0.19	6.98	
4,500.0	1.41	50.91	4,497.1	72.4	98.0	98.1	0.02	-0.01	0.73	
4,600.0	1.47	37.00	4,597.1	74.2	99.7	99.8	0.35	0.06	-13.91	
4,700.0	1.38	40.06	4,697.1	76.1	101.3	101.4	0.12	-0.09	3.06	
4,800.0	1.30	36.70	4,797.0	78.0	102.7	102.8	0.11	-0.08	-3.36	
4,900.0	1.32	31.74	4,897.0	79.8	104.0	104.1	0.12	0.02	-4.96	
5,000.0	1.35	29.99	4,997.0	81.8	105.2	105.3	0.05	0.03	-1.75	
5,100.0	1.31	24.39	5,097.0	83.9	106.2	106.4	0.14	-0.04	-5.60	
5,200.0	1.19	17.69	5,196.9	85.9	107.0	107.2	0.19	-0.12	-6.70	
5,300.0	0.93	18.38	5,296.9	87.7	107.6	107.8	0.26	-0.26	0.69	
5,400.0	1.22	15.23	5,396.9	89.5	108.1	108.3	0.30	0.29	-3.15	
5,500.0	0.89	17.91	5,496.9	91.3	108.7	108.8	0.33	-0.33	2.68	
5,600.0	0.94	8.50	5,596.9	92.8	109.0	109.2	0.16	0.05	-9.41	
5,700.0	0.96	4.16	5,696.9	94.5	109.2	109.4	0.07	0.02	-4.34	
5,800.0	1.07	4.05	5,796.8	96.2	109.3	109.5	0.11	0.11	-0.11	
5,900.0	1.14	0.52	5,896.8	98.1	109.4	109.6	0.10	0.07	-3.53	



Stryker Directional Survey Report



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Well:	Two Mesas 7 MP Federal #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	0.92	11.68	5,996.8	99.9	109.6	109.8	0.30	-0.22	11.16
6,100.0	0.54	16.03	6,096.8	101.2	109.9	110.0	0.38	-0.38	4.35
6,200.0	0.16	32.38	6,196.8	101.7	110.1	110.3	0.39	-0.38	16.35
6,300.0	0.08	261.32	6,296.8	101.8	110.1	110.3	0.22	-0.08	-131.06
6,400.0	0.33	231.93	6,396.8	101.7	109.8	110.0	0.26	0.25	-29.39
6,500.0	0.67	238.71	6,496.8	101.2	109.1	109.2	0.34	0.34	6.78
6,600.0	0.73	241.35	6,596.8	100.6	108.0	108.2	0.07	0.06	2.64
6,700.0	0.88	240.25	6,696.8	99.9	106.8	106.9	0.15	0.15	-1.10
6,800.0	0.63	237.63	6,796.8	99.2	105.6	105.8	0.25	-0.25	-2.62
6,900.0	0.87	240.17	6,896.8	98.5	104.5	104.7	0.24	0.24	2.54
7,000.0	1.41	239.24	6,996.7	97.5	102.8	103.0	0.54	0.54	-0.93
7,100.0	2.05	239.01	7,096.7	96.0	100.2	100.4	0.64	0.64	-0.23
7,200.0	2.26	227.43	7,196.6	93.7	97.2	97.4	0.48	0.21	-11.58
7,300.0	2.75	218.06	7,296.5	90.5	94.3	94.5	0.64	0.49	-9.37
7,400.0	3.09	210.41	7,396.4	86.3	91.5	91.6	0.52	0.34	-7.65
7,500.0	2.98	220.92	7,496.3	82.0	88.4	88.5	0.57	-0.11	10.51
7,600.0	2.47	220.36	7,596.1	78.4	85.3	85.4	0.51	-0.51	-0.56
7,700.0	2.22	218.72	7,696.1	75.2	82.7	82.8	0.26	-0.25	-1.64
7,728.0	2.34	212.90	7,724.0	74.3	82.0	82.2	0.93	0.43	-20.79
7728 MD VES Gyro Survey									
7,827.0	3.10	154.50	7,822.9	70.2	82.1	82.2	2.76	0.77	-58.99
7,859.0	6.30	127.00	7,854.8	68.4	83.9	84.0	11.96	10.00	-85.94
7,890.0	10.00	117.10	7,885.5	66.1	87.6	87.7	12.72	11.94	-31.94
7,922.0	13.80	112.20	7,916.8	63.4	93.6	93.7	12.28	11.88	-15.31
7,953.0	16.00	111.60	7,946.8	60.5	101.0	101.1	7.11	7.10	-1.94
7,985.0	17.80	109.20	7,977.4	57.2	109.7	109.8	6.03	5.63	-7.50
8,017.0	21.30	106.70	8,007.5	53.9	119.9	120.0	11.24	10.94	-7.81
8,048.0	24.70	104.50	8,036.1	50.7	131.6	131.7	11.31	10.97	-7.10
8,080.0	28.30	101.80	8,064.7	47.5	145.5	145.6	11.86	11.25	-8.44
8,111.0	30.80	99.50	8,091.7	44.7	160.5	160.6	8.85	8.06	-7.42
8,143.0	33.50	96.50	8,118.8	42.3	177.4	177.5	9.80	8.44	-9.38
8,174.0	36.50	94.10	8,144.2	40.7	195.1	195.2	10.65	9.68	-7.74
8,206.0	39.60	92.10	8,169.4	39.6	214.8	214.8	10.42	9.69	-6.25
8,237.0	43.50	91.70	8,192.6	38.9	235.3	235.4	12.61	12.58	-1.29
8,269.0	47.50	91.00	8,215.0	38.4	258.1	258.2	12.60	12.50	-2.19
8,300.0	50.50	90.60	8,235.3	38.1	281.5	281.6	9.73	9.68	-1.29
8,332.0	53.10	90.40	8,255.1	37.9	306.7	306.7	8.14	8.13	-0.63
8,363.0	56.80	90.40	8,272.9	37.7	332.0	332.1	11.94	11.94	0.00
8,395.0	60.00	90.90	8,289.7	37.4	359.3	359.4	10.09	10.00	1.56
8,426.0	62.40	91.00	8,304.6	36.9	386.5	386.5	7.75	7.74	0.32
8,458.0	64.70	91.40	8,318.9	36.3	415.1	415.2	7.27	7.19	1.25
8,489.0	67.40	90.30	8,331.4	35.9	443.4	443.5	9.29	8.71	-3.55
8,521.0	69.20	89.60	8,343.3	35.9	473.2	473.2	5.98	5.63	-2.19



Stryker Directional Survey Report



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Well:	Two Mesas 7 MP Federal #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)
8,552.0	71.20	89.30	8,353.8	36.2	502.3	502.4	6.52	6.45	-0.97
8,584.0	75.20	89.50	8,363.0	36.5	532.9	533.0	12.51	12.50	0.63
8,616.0	79.20	89.30	8,370.1	36.9	564.1	564.2	12.51	12.50	-0.63
8,647.0	81.80	89.30	8,375.2	37.2	594.7	594.8	8.39	8.39	0.00
8,679.0	83.60	89.30	8,379.3	37.6	626.4	626.5	5.63	5.63	0.00
8,710.0	86.20	89.20	8,382.0	38.0	657.3	657.4	8.39	8.39	-0.32
8,725.0	87.30	89.20	8,382.9	38.2	672.3	672.4	7.33	7.33	0.00
8,814.0	89.40	91.70	8,385.5	37.5	761.2	761.3	3.67	2.36	2.81
8,846.0	88.50	91.70	8,386.0	36.6	793.2	793.3	2.81	-2.81	0.00
8,877.0	88.10	91.30	8,387.0	35.8	824.2	824.3	1.82	-1.29	-1.29
8,909.0	87.20	90.50	8,388.3	35.3	856.2	856.2	3.76	-2.81	-2.50
8,940.0	85.80	90.20	8,390.2	35.1	887.1	887.2	4.62	-4.52	-0.97
8,972.0	85.40	90.20	8,392.6	35.0	919.0	919.1	1.25	-1.25	0.00
9,003.0	85.20	89.80	8,395.2	35.0	949.9	950.0	1.44	-0.65	-1.29
9,035.0	85.50	90.30	8,397.8	35.0	981.8	981.9	1.82	0.94	1.56
9,066.0	85.70	90.60	8,400.1	34.7	1,012.7	1,012.8	1.16	0.65	0.97
9,098.0	85.40	90.60	8,402.6	34.4	1,044.6	1,044.7	0.94	-0.94	0.00
9,129.0	85.90	90.40	8,405.0	34.1	1,075.5	1,075.6	1.74	1.61	-0.65
9,161.0	86.50	90.20	8,407.1	33.9	1,107.5	1,107.5	1.98	1.88	-0.63
9,193.0	86.00	90.20	8,409.2	33.8	1,139.4	1,139.4	1.56	-1.56	0.00
9,225.0	85.60	90.00	8,411.5	33.8	1,171.3	1,171.4	1.40	-1.25	-0.63
9,256.0	86.20	90.10	8,413.7	33.7	1,202.2	1,202.3	1.96	1.94	0.32
9,288.0	87.00	90.50	8,415.6	33.6	1,234.2	1,234.2	2.79	2.50	1.25
9,319.0	87.80	90.70	8,417.0	33.3	1,265.1	1,265.2	2.66	2.58	0.65
9,351.0	87.50	90.30	8,418.4	33.0	1,297.1	1,297.2	1.56	-0.94	-1.25
9,382.0	87.40	90.10	8,419.7	32.9	1,328.1	1,328.1	0.72	-0.32	-0.65
9,414.0	86.90	90.00	8,421.3	32.8	1,360.0	1,360.1	1.59	-1.56	-0.31
9,445.0	87.50	89.70	8,422.8	32.9	1,391.0	1,391.0	2.16	1.94	-0.97
9,477.0	88.70	88.90	8,423.9	33.3	1,423.0	1,423.0	4.51	3.75	-2.50
9,509.0	89.80	88.50	8,424.3	34.0	1,455.0	1,455.0	3.66	3.44	-1.25
9,540.0	89.50	88.00	8,424.5	35.0	1,485.9	1,486.0	1.88	-0.97	-1.61
9,572.0	89.40	88.70	8,424.8	35.9	1,517.9	1,518.0	2.21	-0.31	2.19
9,635.0	88.40	88.10	8,426.0	37.7	1,580.9	1,581.0	1.85	-1.59	-0.95
9,698.0	88.00	88.40	8,428.0	39.6	1,643.8	1,643.9	0.79	-0.63	0.48
9,762.0	88.00	90.60	8,430.2	40.1	1,707.8	1,707.9	3.44	0.00	3.44
9,825.0	90.20	91.60	8,431.2	38.9	1,770.8	1,770.8	3.84	3.49	1.59
9,888.0	88.90	90.30	8,431.7	37.9	1,833.7	1,833.8	2.92	-2.06	-2.06
9,919.0	89.20	89.50	8,432.2	37.9	1,864.7	1,864.8	2.76	0.97	-2.58
9,951.0	90.30	89.50	8,432.4	38.2	1,896.7	1,896.8	3.44	3.44	0.00
9,983.0	90.50	88.80	8,432.2	38.7	1,928.7	1,928.8	2.27	0.63	-2.19
10,014.0	90.00	88.90	8,432.0	39.3	1,959.7	1,959.8	1.64	-1.61	0.32
10,078.0	90.30	91.50	8,431.9	39.1	2,023.7	2,023.8	4.09	0.47	4.06
10,109.0	90.00	91.30	8,431.8	38.3	2,054.7	2,054.8	1.16	-0.97	-0.65



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local/Co-ordinate Reference:	Well Two Mesas 7 MP Federal #1H
Project:	Eddy County New Mexico	TVD Reference:	GL 3314 + 20 @ 3334.0usft (Patterson #41)
Site:	Section 7-20S-30E Two Mesas 7 MP	MD Reference:	GL 3314 + 20 @ 3334.0usft (Patterson #41)
Well:	Two Mesas 7 MP Federal #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)
10,141.0	89.80	91.00	8,431.8	37.7	2,086.7	2,086.8	1.13	-0.63	-0.94
10,204.0	90.20	90.80	8,431.8	36.7	2,149.7	2,149.8	0.71	0.63	-0.32
10,267.0	89.90	91.00	8,431.8	35.7	2,212.7	2,212.7	0.57	-0.48	0.32
10,299.0	90.80	91.00	8,431.6	35.2	2,244.7	2,244.7	2.81	2.81	0.00
10,362.0	90.00	91.00	8,431.1	34.1	2,307.7	2,307.7	1.27	-1.27	0.00
10,425.0	89.30	90.80	8,431.5	33.1	2,370.7	2,370.7	1.16	-1.11	-0.32
10,488.0	90.20	90.80	8,431.8	32.2	2,433.7	2,433.7	1.43	1.43	0.00
10,552.0	91.10	91.40	8,431.1	31.0	2,497.6	2,497.7	1.69	1.41	0.94
10,615.0	90.00	91.20	8,430.5	29.5	2,560.6	2,560.7	1.77	-1.75	-0.32
10,679.0	92.10	92.30	8,429.3	27.6	2,624.6	2,624.6	3.70	3.28	1.72
10,742.0	92.50	92.10	8,426.8	25.2	2,687.5	2,687.5	0.71	0.63	-0.32
10,805.0	91.80	92.10	8,424.4	22.9	2,750.4	2,750.4	1.11	-1.11	0.00
10,868.0	90.60	92.70	8,423.1	20.2	2,813.3	2,813.3	2.13	-1.90	0.95
10,900.0	88.90	91.70	8,423.2	19.0	2,845.3	2,845.3	6.16	-5.31	-3.13
10,932.0	87.80	91.10	8,424.1	18.2	2,877.3	2,877.3	3.92	-3.44	-1.88
10,963.0	87.40	90.10	8,425.4	17.9	2,908.2	2,908.3	3.47	-1.29	-3.23
11,026.0	87.60	89.90	8,428.2	17.9	2,971.2	2,971.2	0.45	0.32	-0.32
11,090.0	88.30	89.90	8,430.5	18.0	3,035.1	3,035.2	1.09	1.09	0.00
11,153.0	89.90	90.80	8,431.5	17.6	3,098.1	3,098.2	2.91	2.54	1.43
11,216.0	89.50	91.40	8,431.8	16.4	3,161.1	3,161.1	1.14	-0.63	0.95
11,280.0	89.00	91.00	8,432.6	15.1	3,225.1	3,225.1	1.00	-0.78	-0.63
11,343.0	88.80	91.10	8,433.8	13.9	3,288.1	3,288.1	0.35	-0.32	0.16
11,375.0	89.20	90.80	8,434.4	13.4	3,320.1	3,320.1	1.56	1.25	-0.94
11,438.0	89.80	90.30	8,435.0	12.8	3,383.1	3,383.1	1.24	0.95	-0.79
11,469.0	91.20	89.50	8,434.7	12.8	3,414.1	3,414.1	5.20	4.52	-2.58
11,533.0	89.90	89.10	8,434.1	13.6	3,478.0	3,478.1	2.13	-2.03	-0.63
11,596.0	90.50	88.70	8,433.8	14.8	3,541.0	3,541.1	1.14	0.95	-0.63
11,690.0	90.00	89.10	8,433.4	16.6	3,635.0	3,635.0	0.68	-0.53	0.43
11,786.0	91.10	89.50	8,432.5	17.8	3,731.0	3,731.0	1.22	1.15	0.42
11,881.0	89.50	87.70	8,432.0	20.1	3,826.0	3,826.0	2.54	-1.68	-1.89
11,975.0	90.50	87.40	8,432.0	24.1	3,919.9	3,919.9	1.11	1.06	-0.32
12,102.0	89.80	87.50	8,431.7	29.8	4,046.8	4,046.8	0.56	-0.55	0.08
12,197.0	89.80	88.80	8,432.0	32.8	4,141.7	4,141.7	1.37	0.00	1.37
12,292.0	88.30	88.30	8,433.6	35.3	4,236.7	4,236.7	1.66	-1.58	-0.53
12,387.0	90.10	89.50	8,434.9	37.1	4,331.6	4,331.7	2.28	1.89	1.26
12,482.0	88.50	88.80	8,436.1	38.5	4,426.6	4,426.7	1.84	-1.68	-0.74
12,577.0	91.30	90.90	8,436.2	38.7	4,521.6	4,521.6	3.68	2.95	2.21
12,671.0	89.60	91.30	8,435.5	36.9	4,615.6	4,615.6	1.86	-1.81	0.43
12,710.0	89.90	91.70	8,435.7	35.9	4,654.5	4,654.6	1.28	0.77	1.03
12,770.0	89.90	91.70	8,435.8	34.1	4,714.5	4,714.6	0.00	0.00	0.00

12770.0 MD Projected to Bit



Stryker Directional Survey Report



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Site:	Section 7-20S-30E Two Mesas 7 MP	MD Reference:	GL 3314 + 20' @ 3334.0usft (Patterson #41)
Well:	Two Mesas 7 MP Federal #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,728.0	7,724.0	74.3	82.0	7728' MD VES Gyro Survey
12,770.0	8,435.8	34.1	4,714.5	12770' MD Projected to Bit