

HOBBS OCD

SEP 28 2016

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Mewbourne Oil Company .

Lea County N.M.

Section 8-26S-32E Red Hills West #009H

Red Hills West #009H

Original Hole

Design: Original Hole

Standard Survey Report

16 September, 2015

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West #009H
Project:	Lea County N.M.	TVD Reference:	3199 + 25 @ 3224.0usft (Patterson # 36)
Site:	Section 8-26S-32E Red Hills West #009H	MD Reference:	3199 + 25 @ 3224.0usft (Patterson # 36)
Well:	Red Hills West #009H	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 8-26S-32E Red Hills West #009H			
Site Position:		Northing:	382,841.64 usft	Latitude:	32° 3' 3.547 N
From:	Map	Easting:	694,939.99 usft	Longitude:	103° 42' 14.908 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.33 °

Well	Red Hills West #009H					
Well Position	+N/-S	0.0 usft	Northing:	382,841.64 usft	Latitude:	32° 3' 3.547 N
	+E/-W	0.0 usft	Easting:	694,939.99 usft	Longitude:	103° 42' 14.908 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,199.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	7/27/2015	6.87	59.91	48,017

Design	Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	359.72	

Survey Program	Date 9/16/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,470.0	Stryker Gyro Survey #1 (Original Hole)	SRG-GYRO-MS	surface readout gyro mullishot	
8,505.0	13,727.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.49	225.41	100.0	-0.3	-0.3	-0.3	0.49	0.49	0.00	
200.0	0.47	245.73	200.0	-0.8	-1.0	-0.8	0.17	-0.02	20.32	
300.0	0.37	244.05	300.0	-1.1	-1.6	-1.1	0.10	-0.10	-1.68	
400.0	0.40	189.58	400.0	-1.6	-2.0	-1.6	0.35	0.03	-54.47	
500.0	0.57	207.33	500.0	-2.4	-2.3	-2.3	0.22	0.17	17.75	
600.0	0.48	205.17	600.0	-3.2	-2.7	-3.2	0.09	-0.09	-2.16	
700.0	0.56	169.32	700.0	-4.0	-2.8	-4.0	0.33	0.08	-35.85	
800.0	1.28	158.80	800.0	-5.6	-2.3	-5.5	0.74	0.72	-10.52	
900.0	1.86	147.84	899.9	-8.0	-1.0	-8.0	0.65	0.58	-10.96	

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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)
1,000.0	1.98	155.22	999.9	-10.9	0.6	-10.9	0.27	0.12	7.38
1,100.0	1.61	170.31	1,099.8	-13.9	1.5	-13.9	0.60	-0.37	15.09
1,200.0	1.58	180.51	1,199.8	-16.6	1.8	-16.6	0.29	-0.03	10.20
1,300.0	0.98	115.81	1,299.8	-18.4	2.5	-18.4	1.46	-0.60	-64.70
1,400.0	1.06	99.83	1,399.7	-18.9	4.2	-18.9	0.29	0.08	-15.98
1,500.0	1.00	74.82	1,499.7	-18.8	6.0	-18.9	0.45	-0.06	-25.01
1,600.0	1.14	63.96	1,599.7	-18.2	7.7	-18.2	0.25	0.14	-10.86
1,700.0	1.14	64.18	1,699.7	-17.3	9.5	-17.3	0.00	0.00	0.22
1,800.0	1.28	55.62	1,799.7	-16.2	11.3	-16.3	0.23	0.14	-8.56
1,900.0	1.51	53.60	1,899.6	-14.8	13.3	-14.9	0.24	0.23	-2.02
2,000.0	1.62	49.24	1,999.6	-13.1	15.4	-13.2	0.16	0.11	-4.36
2,100.0	1.62	342.06	2,099.6	-10.9	16.0	-10.9	1.79	0.00	-67.18
2,200.0	3.65	300.44	2,199.5	-7.9	12.9	-8.0	2.67	2.03	-41.62
2,300.0	4.13	310.45	2,299.2	-3.9	7.4	-4.0	0.83	0.48	10.01
2,400.0	1.77	41.95	2,399.1	-0.5	5.7	-0.5	4.54	-2.36	91.50
2,500.0	4.26	98.88	2,499.0	0.1	10.4	0.1	3.61	2.49	56.93
2,600.0	4.46	127.76	2,598.7	-2.8	17.1	-2.9	2.18	0.20	28.88
2,700.0	2.42	196.95	2,698.6	-7.2	19.6	-7.3	4.25	-2.04	69.19
2,800.0	2.07	261.12	2,798.5	-9.5	17.2	-9.6	2.40	-0.35	64.17
2,900.0	2.52	341.58	2,898.5	-7.7	14.7	-7.8	2.98	0.45	80.46
3,000.0	1.68	36.06	2,998.4	-4.5	14.9	-4.5	2.06	-0.84	54.48
3,100.0	1.99	84.93	3,098.4	-3.1	17.5	-3.2	1.54	0.31	48.87
3,200.0	1.88	100.99	3,198.3	-3.3	20.8	-3.4	0.55	-0.11	16.06
3,300.0	1.85	103.73	3,298.2	-4.0	24.0	-4.1	0.09	-0.03	2.74
3,400.0	2.02	97.63	3,398.2	-4.6	27.3	-4.7	0.27	0.17	-6.10
3,500.0	1.16	68.87	3,498.2	-4.5	30.0	-4.6	1.15	-0.86	-28.76
3,600.0	1.29	52.81	3,598.1	-3.4	31.8	-3.6	0.37	0.13	-16.06
3,700.0	1.38	55.15	3,698.1	-2.0	33.7	-2.2	0.11	0.09	2.34
3,800.0	1.89	69.25	3,798.1	-0.8	36.2	-1.0	0.65	0.51	14.10
3,900.0	1.63	102.88	3,898.0	-0.5	39.2	-0.7	1.05	-0.26	33.63
4,000.0	1.63	122.02	3,998.0	-1.6	41.8	-1.8	0.54	0.00	19.14
4,100.0	2.42	157.74	4,097.9	-4.3	43.8	-4.5	1.45	0.79	35.72
4,200.0	4.38	166.12	4,197.7	-10.0	45.5	-10.2	2.02	1.96	8.38
4,300.0	4.17	175.14	4,297.5	-17.3	46.7	-17.5	0.70	-0.21	9.02
4,400.0	4.15	185.22	4,397.2	-24.5	46.7	-24.7	0.73	-0.02	10.08
4,500.0	3.87	211.19	4,497.0	-31.0	44.6	-31.2	1.82	-0.28	25.97
4,600.0	3.62	195.31	4,596.8	-36.9	42.0	-37.1	1.06	-0.25	-15.88
4,700.0	3.24	191.80	4,696.6	-42.7	40.6	-42.9	0.43	-0.38	-3.51
4,800.0	2.80	191.93	4,796.4	-47.9	39.5	-48.1	0.44	-0.44	0.13
4,900.0	2.62	193.61	4,896.3	-52.5	38.5	-52.7	0.20	-0.18	1.68
5,000.0	2.36	198.31	4,996.2	-56.7	37.3	-56.9	0.33	-0.26	4.70
5,100.0	1.97	197.04	5,096.2	-60.3	36.2	-60.5	0.39	-0.39	-1.27
5,200.0	1.75	199.45	5,196.1	-63.4	35.1	-63.5	0.23	-0.22	2.41

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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)
5,300.0	1.34	198.27	5,296.1	-65.9	34.3	-66.1	0.41	-0.41	-1.18
5,400.0	1.31	202.05	5,396.0	-68.1	33.5	-68.2	0.09	-0.03	3.78
5,500.0	0.93	208.22	5,496.0	-69.9	32.7	-70.0	0.40	-0.38	6.17
5,600.0	0.92	195.70	5,596.0	-71.3	32.1	-71.5	0.20	-0.01	-12.52
5,700.0	0.86	211.46	5,696.0	-72.8	31.4	-72.9	0.25	-0.06	15.76
5,800.0	0.89	208.80	5,796.0	-74.1	30.7	-74.2	0.05	0.03	-2.66
5,900.0	0.68	211.16	5,896.0	-75.3	30.0	-75.4	0.21	-0.21	2.36
6,000.0	0.88	216.49	5,996.0	-76.4	29.2	-76.5	0.21	0.20	5.33
6,100.0	0.75	226.06	6,096.0	-77.5	28.3	-77.6	0.19	-0.13	9.57
6,200.0	0.77	218.40	6,195.9	-78.4	27.4	-78.6	0.10	0.02	-7.66
6,300.0	0.81	229.63	6,295.9	-79.4	26.5	-79.6	0.16	0.04	11.23
6,400.0	0.74	229.78	6,395.9	-80.3	25.4	-80.4	0.07	-0.07	0.15
6,500.0	0.84	230.42	6,495.9	-81.2	24.4	-81.3	0.10	0.10	0.64
6,600.0	0.90	238.05	6,595.9	-82.1	23.1	-82.2	0.13	0.06	7.63
6,700.0	0.89	223.07	6,695.9	-83.1	21.9	-83.2	0.23	-0.01	-14.98
6,800.0	0.79	224.21	6,795.9	-84.1	20.9	-84.2	0.10	-0.10	1.14
6,900.0	0.52	216.96	6,895.9	-85.0	20.2	-85.1	0.28	-0.27	-7.25
7,000.0	0.74	218.14	6,995.9	-85.8	19.5	-85.9	0.22	0.22	1.18
7,100.0	0.69	179.08	7,095.9	-87.0	19.1	-87.0	0.48	-0.05	-39.06
7,200.0	0.60	111.95	7,195.9	-87.8	19.6	-87.8	0.72	-0.09	-67.13
7,300.0	1.61	143.26	7,295.8	-89.1	20.9	-89.2	1.14	1.01	31.31
7,400.0	1.50	163.91	7,395.8	-91.5	22.1	-91.6	0.57	-0.11	20.65
7,500.0	1.16	187.38	7,495.8	-93.7	22.4	-93.8	0.64	-0.34	23.47
7,600.0	1.78	181.33	7,595.7	-96.3	22.2	-96.4	0.64	0.62	-6.05
7,700.0	1.27	220.47	7,695.7	-98.7	21.5	-98.8	1.13	-0.51	39.14
7,800.0	1.24	210.35	7,795.7	-100.4	20.2	-100.5	0.22	-0.03	-10.12
7,900.0	0.97	201.11	7,895.7	-102.2	19.3	-102.3	0.32	-0.27	-9.24
8,000.0	0.65	192.01	7,995.7	-103.5	18.9	-103.6	0.34	-0.32	-9.10
8,100.0	0.63	162.72	8,095.7	-104.6	19.0	-104.7	0.32	-0.02	-29.29
8,200.0	0.57	196.66	8,195.6	-105.6	19.0	-105.7	0.35	-0.06	33.94
8,300.0	0.21	158.70	8,295.6	-106.2	18.9	-106.3	0.42	-0.36	-37.96
8,400.0	0.39	215.45	8,395.6	-106.7	18.8	-106.8	0.33	0.18	56.75
8,470.0	0.44	182.39	8,465.6	-107.2	18.6	-107.2	0.34	0.07	-47.23
8470' MD Stryker Gyro									
8,505.0	2.50	198.40	8,500.6	-108.0	18.4	-108.1	5.94	5.89	45.74
8,537.0	2.20	316.90	8,532.6	-108.2	17.7	-108.3	12.63	-0.94	370.31
8,569.0	5.20	332.20	8,564.5	-106.5	16.6	-106.6	9.79	9.38	47.81
8,601.0	7.40	341.00	8,596.4	-103.3	15.3	-103.3	7.49	6.88	27.50
8,632.0	9.70	338.00	8,627.0	-99.0	13.7	-99.0	7.56	7.42	-9.68
8,664.0	12.30	337.40	8,658.4	-93.3	11.3	-93.4	8.13	8.13	-1.88
8,696.0	14.70	340.10	8,689.5	-86.3	8.7	-86.4	7.75	7.50	8.44
8,727.0	16.30	342.90	8,719.4	-78.5	6.0	-78.5	5.70	5.16	9.03
8,759.0	16.70	349.50	8,750.1	-69.7	3.9	-69.7	5.99	1.25	20.63

Stryker Directional

Survey Report

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Project:	Lea County N.M.	TVD Reference:	3199 + 25 @ 3224.0usft (Patterson # 36)
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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)
8,791.0	19.10	351.50	8,780.5	-60.0	2.3	-60.0	7.74	7.50	6.25
8,822.0	21.40	353.50	8,809.6	-49.3	0.9	-49.3	7.75	7.42	6.45
8,854.0	21.30	354.70	8,839.4	-37.7	-0.3	-37.7	1.40	-0.31	3.75
8,887.0	22.90	358.90	8,870.0	-25.4	-1.0	-25.4	6.81	4.85	12.73
8,919.0	25.70	0.10	8,899.2	-12.2	-1.1	-12.2	8.88	8.75	3.75
8,951.0	28.20	359.70	8,927.7	2.3	-1.1	2.3	7.83	7.81	-1.25
8,983.0	29.90	358.50	8,955.7	17.8	-1.4	17.9	5.62	5.31	-3.75
9,015.0	31.90	358.90	8,983.1	34.3	-1.8	34.3	6.28	6.25	1.25
9,046.0	34.10	359.10	9,009.1	51.2	-2.0	51.2	7.11	7.10	0.65
9,078.0	36.40	358.80	9,035.2	69.6	-2.4	69.6	7.21	7.19	-0.94
9,109.0	37.00	358.60	9,060.1	88.1	-2.8	88.2	1.97	1.94	-0.65
9,141.0	38.80	359.30	9,085.3	107.8	-3.2	107.8	5.78	5.63	2.19
9,173.0	40.70	359.80	9,109.9	128.3	-3.3	128.3	6.02	5.94	1.56
9,205.0	43.90	358.90	9,133.6	149.8	-3.6	149.8	10.18	10.00	-2.81
9,237.0	47.90	358.70	9,155.9	172.8	-4.1	172.8	12.51	12.50	-0.63
9,269.0	52.30	359.00	9,176.4	197.3	-4.5	197.3	13.77	13.75	0.94
9,300.0	56.30	357.30	9,194.5	222.4	-5.4	222.5	13.65	12.90	-5.48
9,332.0	60.70	356.50	9,211.2	249.7	-6.8	249.7	13.91	13.75	-2.50
9,364.0	65.40	357.50	9,225.7	278.2	-8.3	278.2	14.95	14.69	3.13
9,396.0	70.80	358.40	9,237.6	307.8	-9.4	307.9	17.08	16.88	2.81
9,428.0	76.50	358.90	9,246.6	338.5	-10.1	338.6	17.88	17.81	1.56
9,435.0	78.10	359.00	9,248.2	345.3	-10.2	345.4	22.90	22.86	1.43
9,505.0	85.60	358.10	9,258.1	414.6	-12.0	414.6	10.79	10.71	-1.29
9,536.0	85.00	358.30	9,260.6	445.4	-13.0	445.5	2.04	-1.94	0.65
9,568.0	87.30	358.20	9,262.8	477.3	-13.9	477.4	7.19	7.19	-0.31
9,599.0	90.40	357.70	9,263.4	508.3	-15.1	508.4	10.13	10.00	-1.61
9,631.0	90.60	357.50	9,263.1	540.3	-16.4	540.4	0.88	0.63	-0.63
9,695.0	90.90	357.60	9,262.3	604.2	-19.1	604.3	0.49	0.47	0.16
9,758.0	91.50	357.40	9,261.0	667.1	-21.9	667.2	1.00	0.95	-0.32
9,821.0	90.50	359.70	9,259.9	730.1	-23.5	730.2	3.98	-1.59	3.65
9,916.0	90.30	359.80	9,259.2	825.1	-23.9	825.2	0.24	-0.21	0.11
10,011.0	89.80	358.60	9,259.1	920.1	-25.2	920.2	1.37	-0.53	-1.26
10,106.0	88.30	358.00	9,260.7	1,015.0	-28.0	1,015.2	1.70	-1.58	-0.63
10,201.0	88.90	357.30	9,263.0	1,109.9	-31.9	1,110.1	0.97	0.63	-0.74
10,296.0	90.40	358.50	9,263.6	1,204.9	-35.4	1,205.0	2.02	1.58	1.26
10,391.0	90.50	358.50	9,262.8	1,299.8	-37.9	1,300.0	0.11	0.11	0.00
10,486.0	90.90	358.70	9,261.7	1,394.8	-40.2	1,395.0	0.47	0.42	0.21
10,581.0	90.10	358.10	9,260.9	1,489.7	-42.9	1,489.9	1.05	-0.84	-0.63
10,675.0	91.60	1.60	9,259.5	1,583.7	-43.1	1,583.9	4.05	1.60	3.72
10,770.0	91.40	2.00	9,257.0	1,678.6	-40.1	1,678.8	0.47	-0.21	0.42
10,865.0	91.50	2.50	9,254.6	1,773.5	-36.4	1,773.7	0.54	0.11	0.53
10,960.0	89.20	3.40	9,254.0	1,868.4	-31.5	1,868.5	2.60	-2.42	0.95
11,055.0	88.20	2.20	9,256.1	1,963.3	-26.9	1,963.4	1.64	-1.05	-1.26
11,150.0	90.40	1.60	9,257.3	2,058.2	-23.7	2,058.3	2.40	2.32	-0.63

Stryker Directional Survey Report

Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Red Hills West #009H
Project:	Lea County N.M.	TVD Reference:	3199 + 25 @ 3224.0usft (Patterson # 36)
Site:	Section 8-26S-32E Red Hills West #009H	MD Reference:	3199 + 25 @ 3224.0usft (Patterson # 36)
Well:	Red Hills West #009H	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)	
11,245.0	91.10	0.60	9,256.1	2,153.2	-21.9	2,153.3	1.28	0.74	-1.05	
11,340.0	90.30	0.70	9,254.9	2,248.2	-20.8	2,248.2	0.85	-0.84	0.11	
11,434.0	89.10	359.00	9,255.4	2,342.1	-21.1	2,342.2	2.21	-1.28	-1.81	
11,528.0	88.20	358.90	9,257.6	2,436.1	-22.8	2,436.2	0.96	-0.96	-0.11	
11,624.0	86.30	359.40	9,262.2	2,532.0	-24.2	2,532.1	2.05	-1.98	0.52	
11,719.0	89.20	358.40	9,265.9	2,626.9	-26.0	2,627.0	3.23	3.05	-1.05	
11,814.0	91.20	1.20	9,265.6	2,721.9	-26.4	2,722.0	3.62	2.11	2.95	
11,909.0	89.50	1.00	9,265.0	2,816.8	-24.5	2,816.9	1.80	-1.79	-0.21	
12,004.0	88.90	359.80	9,266.4	2,911.8	-23.9	2,911.9	1.41	-0.63	-1.26	
12,099.0	90.20	359.70	9,267.1	3,006.8	-24.3	3,006.9	1.37	1.37	-0.11	
12,194.0	91.00	0.10	9,266.1	3,101.8	-24.5	3,101.9	0.94	0.84	0.42	
12,289.0	91.50	3.50	9,264.0	3,196.7	-21.5	3,196.8	3.62	0.53	3.58	
12,383.0	91.50	3.30	9,261.6	3,290.5	-15.9	3,290.6	0.21	0.00	-0.21	
12,472.0	94.40	2.00	9,257.0	3,379.3	-11.8	3,379.3	3.57	3.26	-1.46	
12,567.0	90.90	3.40	9,252.6	3,474.1	-7.3	3,474.1	3.97	-3.68	1.47	
12,662.0	88.60	4.10	9,253.0	3,568.9	-1.1	3,568.8	2.53	-2.42	0.74	
12,757.0	89.00	3.30	9,255.0	3,663.7	5.0	3,663.6	0.94	0.42	-0.84	
12,852.0	86.90	2.20	9,258.4	3,758.5	9.6	3,758.4	2.50	-2.21	-1.16	
12,947.0	86.40	2.20	9,264.0	3,853.2	13.2	3,853.1	0.53	-0.53	0.00	
13,042.0	89.80	0.90	9,267.1	3,948.1	15.8	3,948.0	3.83	3.58	-1.37	
13,136.0	90.20	0.50	9,267.1	4,042.1	16.9	4,042.0	0.60	0.43	-0.43	
13,230.0	92.60	0.01	9,264.8	4,136.1	17.3	4,136.0	2.61	2.55	-0.53	
13,325.0	93.10	359.80	9,260.1	4,231.0	17.2	4,230.8	0.57	0.53	-0.22	
13,419.0	90.40	0.50	9,257.2	4,324.9	17.4	4,324.8	2.97	-2.87	0.74	
13,514.0	89.70	0.40	9,257.1	4,419.9	18.2	4,419.8	0.74	-0.74	-0.11	
13,609.0	91.40	1.20	9,256.2	4,514.9	19.5	4,514.8	1.98	1.79	0.84	
13,703.0	93.80	2.30	9,252.0	4,608.8	22.4	4,608.6	2.81	2.55	1.17	
13,727.0	94.20	2.60	9,250.3	4,632.7	23.4	4,632.5	2.08	1.67	1.25	
13727' MD Projected to Bit										
13770										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,470.0	8,465.6	-107.2	18.6	8470' MD Stryker Gyro
13,727.0	9,250.3	4,632.7	23.4	13727' MD Projected to Bit