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Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 29 28-18S-29E Pavo Frio 29/28 B2GH Fed Com

Pavo Frio 29/28 B2GH Fed Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

12 December, 2018





Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B2GH Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Site:	Section 29 28-18S-29E Pavo Frio 29/28 B2GH Fed Com	MD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Well:	Pavo-Frio 29/28 B2GH Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 29 28-18S-29E Pavo Frio 29/28 B2GH Fed Com				
Site Position:	Northing:	625,720.10 usft	Latitude:	32° 43' 11.721 N	
From: Map	Easting:	613,904.20 usft	Longitude:	104° 5' 50.554 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well	Pavo Frio 29/28 B2GH Fed Com 1H				
Well Position	+N/-S	0.0 usft	Northing:	625,720.10 usft	
	+E/-W	0.0 usft	Easting:	613,904.20 usft	
			Longitude:	104° 5' 50.554 W	
Position Uncertainty	0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,481.0 usft

Wellbore	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/08/18	7.09	60.41	48,031.33606310

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	81.80

Survey Program	Date: 12/12/18	
From (usft)	To (usft)	Survey (Wellbore)
1,230.0	15,480.0	Survey #1 (Original Hole)
		Tool-Name
		Description

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)
1,078.0	1.40	91.91	1,077.7	-2.0	17.8	17.3	0.00	0.00	0.00
Wright Fed Com 2 - Hanson Y.D. 2 - Fed Sivley Jennings 1-28									
1,230.0	1.20	89.00	1,229.7	-2.0	21.2	20.7	0.14	-0.13	-1.91
1,357.0	1.20	66.90	1,356.7	-1.5	23.8	23.3	0.36	0.00	-17.40
1,484.0	1.30	59.50	1,483.7	-0.2	26.2	25.9	0.15	0.08	-5.83
1,611.0	1.00	66.90	1,610.6	0.9	28.5	28.3	0.26	-0.24	5.83
1,706.0	0.90	61.60	1,705.6	1.6	29.9	29.8	0.14	-0.11	-5.58
1,834.0	0.80	52.70	1,833.6	2.6	31.5	31.6	0.13	-0.08	-6.95
1,929.0	0.60	42.60	1,928.6	3.4	32.4	32.5	0.25	-0.21	-10.63
2,087.0	0.40	44.00	2,086.6	4.4	33.3	33.6	0.13	-0.13	0.89



Microsoft
Survey Report



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Well:	Pavo Frio 29/28 B2GH Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
2,276.0	0.50	89.60	2,275.6	4.9	34.6	34.9	0.19	0.05	24.13
2,465.0	0.40	143.80	2,464.6	4.4	35.8	36.1	0.22	-0.05	28.68
2,655.0	0.40	129.20	2,654.6	3.4	36.7	36.8	0.05	0.00	-7.68
2,844.0	0.20	157.20	2,843.6	2.7	37.3	37.3	0.13	-0.11	14.81
3,033.0	0.00	151.50	3,032.6	2.4	37.5	37.4	0.11	-0.11	0.00
3,223.0	0.20	122.80	3,222.6	2.2	37.8	37.7	0.11	0.11	0.00
3,412.0	0.30	110.10	3,411.6	1.8	38.5	38.4	0.06	0.05	-6.72
3,601.0	0.00	82.80	3,600.6	1.7	39.0	38.8	0.16	-0.16	0.00
3,791.0	0.30	212.10	3,790.6	1.3	38.7	38.5	0.16	0.16	0.00
3,980.0	0.30	235.80	3,979.6	0.6	38.0	37.7	0.07	0.00	12.54
4,169.0	0.60	292.80	4,168.6	0.7	36.7	36.4	0.27	0.16	30.16
4,359.0	1.30	300.30	4,358.5	2.1	33.9	33.9	0.37	0.37	3.95
4,548.0	1.50	295.90	4,547.5	4.3	29.8	30.2	0.12	0.11	-2.33
4,737.0	1.50	292.90	4,736.4	6.3	25.3	26.0	0.04	0.00	-1.59
4,926.0	1.30	298.50	4,925.4	8.3	21.2	22.2	0.13	-0.11	2.96
5,116.0	1.20	306.50	5,115.3	10.5	17.7	19.0	0.11	-0.05	4.21
5,305.0	1.20	317.50	5,304.3	13.2	14.8	16.5	0.12	0.00	5.82
5,494.0	1.50	314.00	5,493.2	16.4	11.6	13.9	0.16	0.16	-1.85
5,683.0	1.80	303.60	5,682.1	19.7	7.4	10.1	0.22	0.16	-5.50
5,873.0	1.30	241.30	5,872.1	20.3	3.0	5.9	0.87	-0.26	-32.79
6,062.0	1.60	258.30	6,061.0	18.8	-1.4	1.2	0.28	0.16	8.99
6,251.0	1.00	219.40	6,250.0	17.0	-5.1	-2.6	0.55	-0.32	-20.58
6,440.0	0.90	78.70	6,439.0	16.0	-4.7	-2.3	0.95	-0.05	-74.44
6,629.0	1.50	254.70	6,627.9	15.6	-5.6	-3.3	1.27	0.32	93.12
6,818.0	1.30	249.30	6,816.9	14.2	-10.0	-7.9	0.13	-0.11	-2.86
7,008.0	1.80	207.40	7,006.8	10.8	-13.4	-11.7	0.63	0.26	-22.05
7,178.0	1.50	214.20	7,176.8	6.6	-15.9	-14.8	0.21	-0.18	4.00
7,241.0	2.50	107.30	7,239.7	5.5	-15.0	-14.1	5.19	1.59	-169.68
7,272.0	7.80	96.40	7,270.6	5.1	-12.3	-11.4	17.31	17.10	-35.16
7,304.0	12.40	92.50	7,302.1	4.7	-6.7	-5.9	14.52	14.38	-12.19
7,336.0	15.90	90.50	7,333.1	4.5	1.1	1.8	11.04	10.94	-6.25
7,367.0	19.00	89.00	7,362.7	4.5	10.4	11.0	10.10	10.00	-4.84
7,399.0	22.00	89.20	7,392.7	4.7	21.6	22.1	9.38	9.38	0.63
7,430.0	25.10	88.80	7,421.1	4.9	34.0	34.4	10.01	10.00	-1.29
7,462.0	28.10	87.20	7,449.7	5.4	48.3	48.6	9.64	9.38	-5.00
7,494.0	31.60	86.10	7,477.4	6.4	64.2	64.5	11.07	10.94	-3.44
7,526.0	34.90	86.10	7,504.2	7.6	81.7	82.0	10.31	10.31	0.00
7,558.0	38.90	86.70	7,529.8	8.8	100.9	101.1	12.55	12.50	1.88
7,589.0	42.10	87.80	7,553.3	9.7	121.0	121.2	10.58	10.32	3.55
7,621.0	44.70	89.00	7,576.6	10.3	143.0	143.0	8.52	8.13	3.75
7,652.0	46.90	89.70	7,598.2	10.6	165.2	165.0	7.28	7.10	2.26
7,684.0	48.90	90.50	7,619.7	10.5	189.0	188.5	6.52	6.25	2.50



Microsoft
Survey Report



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buld Rate (°/100usft)	Turn Rate (°/100usft)
7,716.0	52.10	91.20	7,640.0	10.2	213.6	212.9	10.14	10.00	2.19
7,747.0	57.30	91.60	7,657.9	9.5	238.9	237.8	16.81	16.77	1.29
7,779.0	62.30	91.20	7,674.0	8.9	266.6	265.1	15.66	15.63	-1.25
7,810.0	66.20	90.70	7,687.5	8.4	294.5	292.7	12.66	12.58	-1.61
7,842.0	69.60	90.00	7,699.5	8.2	324.1	322.0	10.82	10.63	-2.19
7,873.0	71.80	89.70	7,709.8	8.3	353.4	350.9	7.16	7.10	-0.97
7,905.0	74.50	89.80	7,719.0	8.4	384.0	381.3	8.44	8.44	0.31
7,936.0	77.90	89.70	7,726.4	8.6	414.1	411.1	10.97	10.97	-0.32
7,952.0	79.50	89.80	7,729.6	8.6	429.8	426.6	10.02	10.00	0.63
7,990.3	84.31	91.43	7,734.9	8.2	467.7	464.1	13.25	12.56	4.27
LP Pavo Frio 29/28 B2GH Fed Com 1H									
8,030.0	89.30	93.10	7,737.2	6.7	507.3	503.0	13.25	12.57	4.20
8,062.0	89.00	93.00	7,737.6	5.0	539.2	534.4	0.99	-0.94	-0.31
8,156.0	87.30	94.10	7,740.7	-0.9	633.0	626.4	2.15	-1.81	1.17
8,251.0	86.00	91.30	7,746.2	-5.3	727.7	719.5	3.24	-1.37	-2.95
8,346.0	88.40	90.00	7,750.9	-6.4	822.6	813.3	2.87	2.53	-1.37
8,441.0	90.00	87.50	7,752.2	-4.3	917.5	907.6	3.12	1.68	-2.63
8,536.0	91.00	87.30	7,751.4	0.0	1,012.4	1,002.1	1.07	1.05	-0.21
8,630.0	89.70	90.20	7,750.8	2.0	1,106.4	1,095.4	3.38	-1.38	3.09
8,724.0	86.40	90.00	7,754.0	1.9	1,200.3	1,188.3	3.52	-3.51	-0.21
8,819.0	90.00	89.20	7,757.0	2.5	1,295.3	1,282.4	3.88	3.79	-0.84
8,914.0	91.60	88.60	7,755.6	4.4	1,390.2	1,376.7	1.80	1.68	-0.63
9,008.0	89.10	88.30	7,755.1	6.9	1,484.2	1,470.0	2.68	-2.66	-0.32
9,103.0	86.20	88.80	7,759.0	9.3	1,579.1	1,564.3	3.10	-3.05	0.53
9,198.0	88.20	88.60	7,763.6	11.5	1,673.9	1,658.5	2.12	2.11	-0.21
9,292.0	90.50	88.80	7,764.7	13.6	1,767.9	1,751.8	2.46	2.45	0.21
9,387.0	87.70	88.20	7,766.2	16.1	1,862.8	1,846.1	3.01	-2.95	-0.63
9,481.0	88.70	89.50	7,769.1	18.0	1,956.8	1,939.3	1.74	1.06	1.38
9,576.0	92.00	89.80	7,768.5	18.5	2,051.8	2,033.4	3.49	3.47	0.32
9,670.0	89.00	87.80	7,767.7	20.5	2,145.7	2,126.7	3.84	-3.19	-2.13
9,765.0	87.40	91.70	7,770.7	20.9	2,240.7	2,220.7	4.44	-1.68	4.11
9,859.0	86.70	90.20	7,775.5	19.4	2,334.5	2,313.4	1.76	-0.74	-1.60
9,954.0	86.50	89.30	7,781.2	19.8	2,429.3	2,407.3	0.97	-0.21	-0.95
10,049.0	93.80	91.40	7,780.9	19.2	2,524.3	2,501.2	8.00	7.68	2.21
10,143.0	90.80	90.50	7,777.2	17.6	2,618.2	2,593.9	3.33	-3.19	-0.96
10,238.0	90.60	91.20	7,776.0	16.2	2,713.2	2,687.7	0.77	-0.21	0.74
10,333.0	92.90	91.10	7,773.1	14.3	2,808.1	2,781.4	2.42	2.42	-0.11
10,427.0	87.80	89.50	7,772.5	13.8	2,902.0	2,874.4	5.69	-5.43	-1.70
10,520.0	85.50	87.70	7,777.9	16.1	2,994.8	2,966.5	3.14	-2.47	-1.94
10,614.0	88.60	88.10	7,782.8	19.5	3,088.7	3,059.9	3.33	3.30	0.43
10,709.0	89.90	88.10	7,784.0	22.7	3,183.6	3,154.3	1.37	1.37	0.00
10,804.0	90.50	87.60	7,783.7	26.3	3,278.5	3,248.8	0.82	0.63	-0.53
10,898.0	90.80	87.60	7,782.6	30.2	3,372.4	3,342.3	0.32	0.32	0.00



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Survey Report



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10,993.0	89.10	90.30	7,782.7	31.9	3,467.4	3,436.5	3.36	-1.79	2.84
11,088.0	89.00	89.40	7,784.3	32.2	3,562.4	3,530.6	0.95	-0.11	-0.95
11,183.0	89.30	90.70	7,785.7	32.1	3,657.4	3,624.6	1.40	0.32	1.37
11,277.0	87.50	92.00	7,788.3	29.9	3,751.3	3,717.2	2.36	-1.91	1.38
11,372.0	85.60	92.00	7,794.0	26.6	3,846.1	3,810.6	2.00	-2.00	0.00
11,468.0	89.00	91.80	7,798.6	23.4	3,941.9	3,904.9	3.55	3.54	-0.21
11,561.0	90.10	91.20	7,799.3	21.0	4,034.9	3,996.6	1.35	1.18	-0.65
11,656.0	90.40	91.00	7,798.9	19.1	4,129.8	4,090.4	0.38	0.32	-0.21
11,750.0	90.30	91.00	7,798.3	17.5	4,223.8	4,183.1	0.11	-0.11	0.00
11,845.0	86.90	91.00	7,800.6	15.8	4,318.8	4,276.9	3.58	-3.58	0.00
11,940.0	86.70	90.80	7,805.9	14.3	4,413.6	4,370.5	0.30	-0.21	-0.21
12,034.0	88.90	88.40	7,809.5	15.0	4,507.5	4,463.6	3.46	2.34	-2.55
12,129.0	88.90	87.60	7,811.4	18.3	4,602.5	4,558.0	0.84	0.00	-0.84
12,223.0	88.40	86.10	7,813.6	23.5	4,696.3	4,651.6	1.68	-0.53	-1.60
12,318.0	89.50	89.50	7,815.3	27.1	4,791.2	4,746.1	3.76	1.16	3.58
12,413.0	88.10	88.90	7,817.3	28.5	4,886.1	4,840.3	1.60	-1.47	-0.63
12,507.0	89.10	91.50	7,819.6	28.1	4,980.1	4,933.2	2.96	1.06	2.77
12,602.0	90.20	92.80	7,820.2	24.6	5,075.0	5,026.7	1.79	1.16	1.37
12,697.0	89.80	92.00	7,820.2	20.6	5,170.0	5,120.0	0.94	-0.42	-0.84
12,791.0	89.60	91.40	7,820.7	17.8	5,263.9	5,212.6	0.67	-0.21	-0.64
12,886.0	90.50	91.60	7,820.6	15.3	5,358.9	5,306.3	0.97	0.95	0.21
12,980.0	91.90	91.30	7,818.6	12.9	5,452.8	5,398.9	1.52	1.49	-0.32
13,075.0	90.10	92.00	7,817.0	10.2	5,547.8	5,492.5	2.03	-1.89	0.74
13,169.0	89.50	90.50	7,817.3	8.1	5,641.7	5,585.2	1.72	-0.64	-1.60
13,264.0	88.70	89.20	7,818.8	8.4	5,736.7	5,679.3	1.61	-0.84	-1.37
13,358.0	87.60	88.00	7,821.8	10.7	5,830.6	5,772.6	1.73	-1.17	-1.28
13,453.0	87.30	87.30	7,826.0	14.6	5,925.5	5,867.0	0.80	-0.32	-0.74
13,547.0	87.20	86.90	7,830.6	19.3	6,019.2	5,960.5	0.44	-0.11	-0.43
13,642.0	86.30	86.80	7,835.9	24.5	6,113.9	6,054.9	0.95	-0.95	-0.11
13,737.0	88.10	87.60	7,840.6	29.2	6,208.7	6,149.4	2.07	1.89	0.84
13,831.0	90.00	87.80	7,842.1	32.9	6,302.6	6,242.9	2.03	2.02	0.21
13,926.0	89.60	86.90	7,842.5	37.3	6,397.5	6,337.4	1.04	-0.42	-0.95
14,020.0	90.40	89.00	7,842.5	40.7	6,491.4	6,430.9	2.39	0.85	2.23
14,115.0	90.00	90.30	7,842.1	41.3	6,586.4	6,525.0	1.43	-0.42	1.37
14,210.0	91.20	93.00	7,841.1	38.5	6,681.4	6,618.6	3.11	1.26	2.84
14,304.0	89.60	92.10	7,840.5	34.4	6,775.3	6,710.9	1.95	-1.70	-0.96
14,399.0	87.30	89.80	7,843.1	32.8	6,870.2	6,804.7	3.42	-2.42	-2.42
14,493.0	88.70	91.50	7,846.3	31.7	6,964.2	6,897.5	2.34	1.49	1.81
14,588.0	88.60	89.00	7,848.6	31.3	7,059.1	6,991.4	2.63	-0.11	-2.63
14,682.0	86.90	86.30	7,852.3	35.2	7,153.0	7,084.9	3.39	-1.81	-2.87
14,777.0	88.30	87.60	7,856.2	40.2	7,247.7	7,179.4	2.01	1.47	1.37
14,872.0	90.70	88.60	7,857.1	43.4	7,342.7	7,273.8	2.74	2.53	1.05



Microsoft
Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B2GH Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Site:	Section 29 28-18S-29E Pavo Frio 29/28 B2GH Fed Com	MD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Well:	Pavo Frio 29/28 B2GH Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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)
14,966.0	89.70	86.50	7,856.8	47.4	7,436.6	7,367.3	2.47	-1.06	-2.23
15,061.0	88.80	86.60	7,858.0	53.1	7,531.4	7,462.0	0.95	-0.95	0.11
15,155.0	89.00	86.90	7,859.8	58.4	7,625.2	7,555.6	0.38	0.21	0.32
15,250.0	89.40	86.20	7,861.1	64.1	7,720.0	7,650.3	0.85	0.42	-0.74
15,345.0	91.20	86.90	7,860.6	69.9	7,814.9	7,745.0	2.03	1.89	0.74
15,416.0	92.70	87.70	7,858.2	73.2	7,885.7	7,815.6	2.39	2.11	1.13
15,480.0	92.70	87.70	7,855.2	75.8	7,949.6	7,879.2	0.00	0.00	0.00

15480.0' Projected to Bit - PBHL Pavo Frio 29/28 B2GH Fed Com 1H

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,480.0	7,855.2	75.8	7,949.6	15480.0' Projected to Bit

STRYKER

DIRECTIONAL

January 22, 2019

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Pavo Frio 29 28 B2GH Federal Com #001H
Palmillo East Bone Spring
Eddy County, New Mexico
API# 30-015-45404

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Victor Anguiano	Original Hole	1,230ft. to 15,416ft.	11-24-18 to 12-12-18	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Eric Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Pavo Frio 29 28 B2GH Fed Com #1HM181157

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

P.O. Box 1250

Montgomery, TX 77356

Office (936) 582-7296 * Fax (936)-588-4163

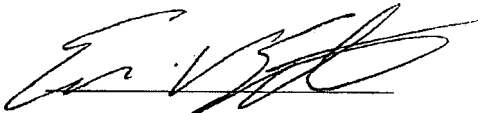
STRYKER DIRECTIONAL

January 22, 2019

Survey Certification Report

STATE OF TEXAS
COUNTY OF Montgomery

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of November 24, 2018, through December 12, 2018 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 1,230feet to a depth of 15,416feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Pavo Frio 29 28 B2GH Federal Com #001H, well API # **30-015-45404** in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.



Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B2GH Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Site:	Section 29 28-18S-29E Pavo Frio 29/28 B2GH Fed Com	MD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Well:	Pavo Frio 29/28 B2GH Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project:	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Section 29 28-18S-29E Pavo Frio 29/28 B2GH Fed Com
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Site Position:		Northing:	625,720.10 usft	Latitude:	32° 43' 11.721 N
From:	Map	Easting:	613,904.20 usft	Longitude:	104° 5' 50.554 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well:	Pavo Frio 29/28 B2GH Fed Com 1H					
Well Position	+N/-S	0.0 usft	Northing:	625,720.10 usft	Latitude:	32° 43' 11.721 N
	+E/-W	0.0 usft	Easting:	613,904.20 usft	Longitude:	104° 5' 50.554 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,481.0 usft

Wellbore:	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/08/18	7.09	60.41	48,031.33606310

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	81.80

Survey Program:	Date	12/12/18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,230.0	15,480.0	Survey #1 (Original Hole)		



Microsoft
MWD Surveys



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B2GH Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Site:	Section 29 28-18S-29E Pavo Frio 29/28 B2GH F	MD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Well:	Pavo Frio 29/28 B2GH Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	
1,078.0	1.40	91.91	1,077.7	2,430.2	-2.0	17.8	17.9	96.43	
1078.0' MD Phoenix Gyro Survey - Wright Fed Com 2 - Hanson Y.D. 2 - Fed Sivley Jennings 1-28									
1,230.0	1.20	89.00	1,229.7	2,278.3	-2.0	21.2	21.3	95.48	
1,357.0	1.20	66.90	1,356.7	2,151.3	-1.5	23.8	23.8	93.59	
1,484.0	1.30	59.50	1,483.7	2,024.3	-0.2	26.2	26.2	90.52	
1,611.0	1.00	66.90	1,610.6	1,897.4	0.9	28.5	28.5	88.13	
1,706.0	0.90	61.60	1,705.6	1,802.4	1.6	29.9	29.9	86.92	
1,834.0	0.80	52.70	1,833.6	1,674.4	2.6	31.5	31.6	85.23	
1,929.0	0.60	42.60	1,928.6	1,579.4	3.4	32.4	32.5	84.01	
2,087.0	0.40	44.00	2,086.6	1,421.4	4.4	33.3	33.6	82.47	
2,276.0	0.50	89.60	2,275.6	1,232.4	4.9	34.6	34.9	81.96	
2,465.0	0.40	143.80	2,464.6	1,043.4	4.4	35.8	36.1	83.06	
2,655.0	0.40	129.20	2,654.6	853.4	3.4	36.7	36.9	84.70	
2,844.0	0.20	157.20	2,843.6	664.4	2.7	37.3	37.4	85.89	
3,033.0	0.00	151.50	3,032.6	475.4	2.4	37.5	37.6	86.37	
3,223.0	0.20	122.80	3,222.6	285.4	2.2	37.8	37.8	86.67	
3,412.0	0.30	110.10	3,411.6	96.4	1.8	38.5	38.5	87.25	
3,601.0	0.00	82.80	3,600.6	-92.6	1.7	39.0	39.0	87.53	
3,791.0	0.30	212.10	3,790.6	-282.6	1.3	38.7	38.7	88.14	
3,980.0	0.30	235.80	3,979.6	-471.6	0.6	38.0	38.0	89.16	
4,169.0	0.60	292.80	4,168.6	-660.6	0.7	36.7	36.7	88.96	
4,359.0	1.30	300.30	4,358.5	-850.5	2.1	33.9	34.0	86.39	
4,548.0	1.50	295.90	4,547.5	-1,039.5	4.3	29.8	30.2	81.80	
4,737.0	1.50	292.90	4,736.4	-1,228.4	6.3	25.3	26.1	75.95	
4,926.0	1.30	298.50	4,925.4	-1,417.4	8.3	21.2	22.8	68.53	
5,116.0	1.20	306.50	5,115.3	-1,607.3	10.5	17.7	20.6	59.21	
5,305.0	1.20	317.50	5,304.3	-1,796.3	13.2	14.8	19.8	48.24	



Microsoft
MWD Surveys



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B2GH Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Site:	Section 29 28-18S-29E Pavo Frio 29/28 B2GH F	MD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Well:	Pavo Frio 29/28 B2GH Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
5,494.0	1.50	314.00	5,493.2	-1,985.2	16.4	11.6	20.1	35.45	
5,683.0	1.80	303.60	5,682.1	-2,174.1	19.7	7.4	21.1	20.55	
5,873.0	1.30	241.30	5,872.1	-2,364.1	20.3	3.0	20.6	8.44	
6,062.0	1.60	258.30	6,061.0	-2,553.0	18.8	-1.4	18.8	355.59	
6,251.0	1.00	219.40	6,250.0	-2,742.0	17.0	-5.1	17.7	343.33	
6,440.0	0.90	78.70	6,439.0	-2,931.0	16.0	-4.7	16.6	343.70	
6,629.0	1.50	254.70	6,627.9	-3,119.9	15.6	-5.6	16.6	340.27	
6,818.0	1.30	249.30	6,816.9	-3,308.9	14.2	-10.0	17.4	324.87	
7,008.0	1.80	207.40	7,006.8	-3,498.8	10.8	-13.4	17.2	308.88	
7,178.0	1.50	214.20	7,176.8	-3,668.8	6.6	-15.9	17.2	292.53	
7,241.0	2.50	107.30	7,239.7	-3,731.7	5.5	-15.0	16.0	290.09	
7,272.0	7.80	96.40	7,270.6	-3,762.6	5.1	-12.3	13.3	292.38	
7,304.0	12.40	92.50	7,302.1	-3,794.1	4.7	-6.7	8.1	304.90	
7,336.0	15.90	90.50	7,333.1	-3,825.1	4.5	1.1	4.6	14.26	
7,367.0	19.00	89.00	7,362.7	-3,854.7	4.5	10.4	11.4	66.55	
7,399.0	22.00	89.20	7,392.7	-3,884.7	4.7	21.6	22.1	77.75	
7,430.0	25.10	88.80	7,421.1	-3,913.1	4.9	34.0	34.4	81.77	
7,462.0	28.10	87.20	7,449.7	-3,941.7	5.4	48.3	48.6	83.59	
7,494.0	31.60	86.10	7,477.4	-3,969.4	6.4	64.2	64.5	84.34	
7,526.0	34.90	86.10	7,504.2	-3,996.2	7.6	81.7	82.1	84.72	
7,558.0	38.90	86.70	7,529.8	-4,021.8	8.8	100.9	101.3	85.04	
7,589.0	42.10	87.80	7,553.3	-4,045.3	9.7	121.0	121.4	85.41	
7,621.0	44.70	89.00	7,576.6	-4,068.6	10.3	143.0	143.4	85.87	
7,652.0	46.90	89.70	7,598.2	-4,090.2	10.6	165.2	165.5	86.34	
7,684.0	48.90	90.50	7,619.7	-4,111.7	10.5	189.0	189.2	86.81	
7,716.0	52.10	91.20	7,640.0	-4,132.0	10.2	213.6	213.9	87.28	
7,747.0	57.30	91.60	7,657.9	-4,149.9	9.5	238.9	239.1	87.71	



Microsoft
MWD Surveys



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B2GH Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Site:	Section 29 28-18S-29E Pavo Frio 29/28 B2GH Fed	MD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Well:	Pavo Frio 29/28 B2GH Fed Com 1H	North Reference:	Grid
Wellbore Design:	Original Hole	Survey Calculation Method:	Minimum Curvature
		Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
7,779.0	62.30	91.20	7,674.0	-4,166.0	8.9	266.6	266.7	88.09	
7,810.0	66.20	90.70	7,687.5	-4,179.5	8.4	294.5	294.6	88.36	
7,842.0	69.60	90.00	7,699.5	-4,191.5	8.2	324.1	324.2	88.55	
7,873.0	71.80	89.70	7,709.8	-4,201.8	8.3	353.4	353.5	88.65	
7,905.0	74.50	89.80	7,719.0	-4,211.0	8.4	384.0	384.1	88.74	
7,936.0	77.90	89.70	7,726.4	-4,218.4	8.6	414.1	414.2	88.81	
7,952.0	79.50	89.80	7,729.6	-4,221.6	8.6	429.8	429.9	88.85	
7,990.3	84.31	91.43	7,734.9	-4,226.9	8.2	467.7	467.7	88.99	
LP Pavo Frio 29/28 B2GH Fed Com 1H									
8,030.0	89.30	93.10	7,737.2	-4,229.2	6.7	507.3	507.3	89.25	
8,062.0	89.00	93.00	7,737.6	-4,229.6	5.0	539.2	539.3	89.47	
8,156.0	87.30	94.10	7,740.7	-4,232.7	-0.9	633.0	633.0	90.08	
8,251.0	86.00	91.30	7,746.2	-4,238.2	-5.3	727.7	727.7	90.42	
8,346.0	88.40	90.00	7,750.9	-4,242.9	-6.4	822.6	822.6	90.45	
8,441.0	90.00	87.50	7,752.2	-4,244.2	-4.3	917.5	917.6	90.27	
8,536.0	91.00	87.30	7,751.4	-4,243.4	0.0	1,012.4	1,012.4	90.00	
8,630.0	89.70	90.20	7,750.8	-4,242.8	2.0	1,106.4	1,106.4	89.89	
8,724.0	86.40	90.00	7,754.0	-4,246.0	1.9	1,200.3	1,200.3	89.91	
8,819.0	90.00	89.20	7,757.0	-4,249.0	2.5	1,295.3	1,295.3	89.89	
8,914.0	91.60	88.60	7,755.6	-4,247.6	4.4	1,390.2	1,390.3	89.82	
9,008.0	89.10	88.30	7,755.1	-4,247.1	6.9	1,484.2	1,484.2	89.73	
9,103.0	86.20	88.80	7,759.0	-4,251.0	9.3	1,579.1	1,579.1	89.66	
9,198.0	88.20	88.60	7,763.6	-4,255.6	11.5	1,673.9	1,674.0	89.61	
9,292.0	90.50	88.80	7,764.7	-4,256.7	13.6	1,767.9	1,768.0	89.56	
9,387.0	87.70	88.20	7,766.2	-4,258.2	16.1	1,862.8	1,862.9	89.51	
9,481.0	88.70	89.50	7,769.1	-4,261.1	18.0	1,956.8	1,956.9	89.47	
9,576.0	92.00	89.80	7,768.5	-4,260.5	18.5	2,051.8	2,051.8	89.48	



Microsoft
MWD Surveys



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B2GH Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Site:	Section 29 28-18S-29E-Pavo Frio 29/28 B2GH F	MD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Well:	Pavo Frio 29/28 B2GH Fed Com 1H	North Reference:	Grid
Wellbore Design:	Original Hole	Survey Calculation Method:	Minimum Curvature
	Original Hole	Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	
9,670.0	89.00	87.80	7,767.7	-4,259.7	20.5	2,145.7	2,145.8	89.45	
9,765.0	87.40	91.70	7,770.7	-4,262.7	20.9	2,240.7	2,240.8	89.47	
9,859.0	86.70	90.20	7,775.5	-4,267.5	19.4	2,334.5	2,334.6	89.52	
9,954.0	86.50	89.30	7,781.2	-4,273.2	19.8	2,429.3	2,429.4	89.53	
10,049.0	93.80	91.40	7,780.9	-4,272.9	19.2	2,524.3	2,524.3	89.56	
10,143.0	90.80	90.50	7,777.2	-4,269.2	17.6	2,618.2	2,618.2	89.61	
10,238.0	90.60	91.20	7,776.0	-4,268.0	16.2	2,713.2	2,713.2	89.66	
10,333.0	92.90	91.10	7,773.1	-4,265.1	14.3	2,808.1	2,808.1	89.71	
10,427.0	87.80	89.50	7,772.5	-4,264.5	13.8	2,902.0	2,902.1	89.73	
10,520.0	85.50	87.70	7,777.9	-4,269.9	16.1	2,994.8	2,994.9	89.69	
10,614.0	88.60	88.10	7,782.8	-4,274.8	19.5	3,088.7	3,088.7	89.64	
10,709.0	89.90	88.10	7,784.0	-4,276.0	22.7	3,183.6	3,183.7	89.59	
10,804.0	90.50	87.60	7,783.7	-4,275.7	26.3	3,278.5	3,278.6	89.54	
10,898.0	90.80	87.60	7,782.6	-4,274.6	30.2	3,372.4	3,372.6	89.49	
10,993.0	89.10	90.30	7,782.7	-4,274.7	31.9	3,467.4	3,467.6	89.47	
11,088.0	89.00	89.40	7,784.3	-4,276.3	32.2	3,562.4	3,562.5	89.48	
11,183.0	89.30	90.70	7,785.7	-4,277.7	32.1	3,657.4	3,657.5	89.50	
11,277.0	87.50	92.00	7,788.3	-4,280.3	29.9	3,751.3	3,751.4	89.54	
11,372.0	85.60	92.00	7,794.0	-4,286.0	26.6	3,846.1	3,846.2	89.60	
11,468.0	89.00	91.80	7,798.6	-4,290.6	23.4	3,941.9	3,942.0	89.66	
11,561.0	90.10	91.20	7,799.3	-4,291.3	21.0	4,034.9	4,034.9	89.70	
11,656.0	90.40	91.00	7,798.9	-4,290.9	19.1	4,129.8	4,129.9	89.73	
11,750.0	90.30	91.00	7,798.3	-4,290.3	17.5	4,223.8	4,223.9	89.76	
11,845.0	86.90	91.00	7,800.6	-4,292.6	15.8	4,318.8	4,318.8	89.79	
11,940.0	86.70	90.80	7,805.9	-4,297.9	14.3	4,413.6	4,413.6	89.81	
12,034.0	88.90	88.40	7,809.5	-4,301.5	15.0	4,507.5	4,507.6	89.81	
12,129.0	88.90	87.60	7,811.4	-4,303.4	18.3	4,602.5	4,602.5	89.77	



Microsoft
MWD Surveys



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B2GH Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Site:	Section 29 28-18S-29E Pavo Frio 29/28 B2GH Fed Com 1H	MD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Well:	Pavo Frio 29/28 B2GH Fed Com 1H	North Reference:	Grid
Wellbore Design:	Original Hole	Survey Calculation Method:	Minimum Curvature
		Database:	Stryker_EDM

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure (usft)	Distance (usft)	Closure Azimuth (°)
12,223.0	88.40	86.10	7,813.6	-4,305.6	23.5	4,696.3	4,696.3		89.71
12,318.0	89.50	89.50	7,815.3	-4,307.3	27.1	4,791.2	4,791.3		89.68
12,413.0	88.10	88.90	7,817.3	-4,309.3	28.5	4,886.1	4,886.2		89.67
12,507.0	89.10	91.50	7,819.6	-4,311.6	28.1	4,980.1	4,980.2		89.68
12,602.0	90.20	92.80	7,820.2	-4,312.2	24.6	5,075.0	5,075.1		89.72
12,697.0	89.80	92.00	7,820.2	-4,312.2	20.6	5,170.0	5,170.0		89.77
12,791.0	89.60	91.40	7,820.7	-4,312.7	17.8	5,263.9	5,263.9		89.81
12,886.0	90.50	91.60	7,820.6	-4,312.6	15.3	5,358.9	5,358.9		89.84
12,980.0	91.90	91.30	7,818.6	-4,310.6	12.9	5,452.8	5,452.8		89.86
13,075.0	90.10	92.00	7,817.0	-4,309.0	10.2	5,547.8	5,547.8		89.89
13,169.0	89.50	90.50	7,817.3	-4,309.3	8.1	5,641.7	5,641.7		89.92
13,264.0	88.70	89.20	7,818.8	-4,310.8	8.4	5,736.7	5,736.7		89.92
13,358.0	87.60	88.00	7,821.8	-4,313.8	10.7	5,830.6	5,830.7		89.89
13,453.0	87.30	87.30	7,826.0	-4,318.0	14.6	5,925.5	5,925.5		89.86
13,547.0	87.20	86.90	7,830.6	-4,322.6	19.3	6,019.2	6,019.3		89.82
13,642.0	86.30	86.80	7,835.9	-4,327.9	24.5	6,113.9	6,114.0		89.77
13,737.0	88.10	87.60	7,840.6	-4,332.6	29.2	6,208.7	6,208.8		89.73
13,831.0	90.00	87.80	7,842.1	-4,334.1	32.9	6,302.6	6,302.7		89.70
13,926.0	89.60	86.90	7,842.5	-4,334.5	37.3	6,397.5	6,397.6		89.67
14,020.0	90.40	89.00	7,842.5	-4,334.5	40.7	6,491.4	6,491.6		89.84
14,115.0	90.00	90.30	7,842.1	-4,334.1	41.3	6,586.4	6,586.6		89.64
14,210.0	91.20	93.00	7,841.1	-4,333.1	38.5	6,681.4	6,681.5		89.67
14,304.0	89.60	92.10	7,840.5	-4,332.5	34.4	6,775.3	6,775.4		89.71
14,399.0	87.30	89.80	7,843.1	-4,335.1	32.8	6,870.2	6,870.3		89.73
14,493.0	88.70	91.50	7,846.3	-4,338.3	31.7	6,964.2	6,964.2		89.74
14,588.0	88.60	89.00	7,848.6	-4,340.6	31.3	7,059.1	7,059.2		89.75
14,682.0	86.90	86.30	7,852.3	-4,344.3	35.2	7,153.0	7,153.0		89.72



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Pavo Frio 29/28 B2GH Fed Com 1H
Project:	Eddy County, N.M. Nad (83)	TVD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Site:	Section 29 28-18S-29E Pavo Frio 29/28 B2GH F	MD Reference:	3481 + 27 @ 3508.0usft (Patterson 560)
Well:	Pavo Frio 29/28 B2GH Fed.Com 1H	North Reference:	Grid
Wellbore Design:	Original Hole	Survey Calculation Method:	Minimum Curvature
		Database:	Stryker_EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
14,777.0	88.30	87.60	7,856.2	-4,348.2	40.2	7,247.7	7,247.9	89.68
14,872.0	90.70	88.60	7,857.1	-4,349.1	43.4	7,342.7	7,342.8	89.66
14,966.0	89.70	86.50	7,856.8	-4,348.8	47.4	7,436.6	7,436.7	89.63
15,061.0	88.80	86.60	7,858.0	-4,350.0	53.1	7,531.4	7,531.6	89.60
15,155.0	89.00	86.90	7,859.8	-4,351.8	58.4	7,625.2	7,625.5	89.56
15,250.0	89.40	86.20	7,861.1	-4,353.1	64.1	7,720.0	7,720.3	89.52
15,345.0	91.20	86.90	7,860.6	-4,352.6	69.9	7,814.9	7,815.2	89.49
15,416.0	92.70	87.70	7,858.2	-4,350.2	73.2	7,885.7	7,886.1	89.47
15,480.0	92.70	87.70	7,855.2	-4,347.2	75.8	7,949.6	7,950.0	89.45

15480.0' Projected to Bit - PBHL Pavo Frio 29/28 B2GH Fed Com 1H

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,078.0	1,077.7	-2.0	17.8	1078.0' MD Phoenix Gyro Survey
15,480.0	7,855.2	75.8	7,949.6	15480.0' Projected to Bit