



NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 07 2018

RECEIVED



Stebbins 19 Fed Com No. 124H
Eddy County, NM *30-015-44172*

January 17, 2018

Job No. LNM5159717

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

January 17, 2018



Operator Name: Matador Resources
Well Name: Stebbins 19 Fed Com No. 124H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5159717

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	1,243' MD – 12,354' MD	12,490' MD	12/18/17 – 12/24/17	MWD

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com



Matador Resources

Eddy County, NM

Stebbins Fed 19

No. 124H

OH

Survey: ProDirectional

Survey Report

17 January, 2018





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 124H
Project:	Eddy County, NM(NAD 83)	TVD Reference:	Well @ 3269.50usft
Site:	Stebbins Fed 19	MD Reference:	Well @ 3269.50usft
Well:	No. 124H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-98'-12354', Proj. 12490'	Database:	WellPlanner1

Project	Eddy County, NM(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	Stebbins Fed 19		
Site Position:		Northing:	566,838.00 usft
From:	Map	Easting:	611,035.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.558090
		Longitude:	-104.107113
		Grid Convergence:	0.12 °

Well	No. 124H					
Well Position	+N-S	0.00 usft	Northing:	564,701.00 usft	Latitude:	32.552215
	+E-W	0.00 usft	Easting:	611,340.00 usft	Longitude:	-104.106138
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,241.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/7/2017	7.37	60.37	-48,138.70

Design Gyro-MWD-98'-12354', Proj. 12490'				
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.00	0.00	0.00	269.97



ProDirectional Survey Report



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Survey Program		Date	1/17/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
98.00	1,082.00	Survey #1 (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro	
1,243.00	12,490.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HRGM	

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	564,701.00	611,340.00	
98.00	0.11	189.05	98.00	0.01	-0.09	-0.01	0.09	189.05	564,700.91	611,339.99	
192.00	0.39	193.72	192.00	0.11	-0.49	-0.10	0.50	192.01	564,700.51	611,339.90	
286.00	1.06	171.53	285.99	0.05	-1.66	-0.05	1.66	181.81	564,699.34	611,339.95	
380.00	1.74	145.12	379.96	-0.89	-3.69	0.89	3.80	166.43	564,697.31	611,340.89	
474.00	1.79	126.20	473.92	-2.89	-5.73	2.89	6.42	153.23	564,695.27	611,342.89	
568.00	1.74	96.18	567.88	-5.49	-6.75	5.50	8.71	140.86	564,694.25	611,345.50	
662.00	1.72	75.48	661.84	-8.28	-6.55	8.28	10.56	128.36	564,694.45	611,348.28	
756.00	1.96	89.64	755.79	-11.25	-6.19	11.25	12.84	118.81	564,694.81	611,351.25	
850.00	1.81	80.90	849.74	-14.32	-5.94	14.33	15.51	112.53	564,695.06	611,354.33	
944.00	1.28	53.22	943.70	-16.63	-5.08	16.63	17.39	106.99	564,695.92	611,356.63	
1,038.00	1.06	53.43	1,037.68	-18.17	-3.93	18.17	18.59	102.21	564,697.07	611,358.17	
1,082.00	1.04	63.49	1,081.68	-18.86	-3.51	18.86	19.18	100.55	564,697.49	611,358.86	
1,243.00	1.40	72.70	1,242.64	-22.04	-2.28	22.04	22.16	95.90	564,698.72	611,362.04	
Pro MWD First Survey: 1243' MD											
1,337.00	1.60	57.70	1,336.61	-24.25	-1.23	24.25	24.28	92.91	564,699.77	611,364.25	
1,431.00	1.80	9.60	1,430.57	-25.60	0.92	25.60	25.62	87.93	564,701.92	611,365.60	
1,525.00	3.10	4.50	1,524.48	-26.05	4.91	26.05	26.51	79.32	564,705.91	611,366.05	
1,618.00	3.60	12.20	1,617.32	-26.87	10.27	26.86	28.76	69.07	564,711.27	611,366.86	
1,711.00	3.90	13.80	1,710.12	-28.24	16.20	28.23	32.55	60.16	564,717.20	611,368.23	
1,805.00	2.60	33.40	1,803.97	-30.18	21.08	30.17	36.81	55.05	564,722.08	611,370.17	



ProDirectional Survey Report



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Wellbore: OH
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

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1,906.00	2.10	42.70	1,904.89	-32.70	24.36	32.69	40.76	53.31	564,725.36	611,372.69
1,999.00	2.50	41.30	1,997.81	-35.20	27.13	35.18	44.43	52.36	564,728.13	611,375.18
2,092.00	2.90	37.00	2,090.71	-37.95	30.54	37.94	48.70	51.17	564,731.54	611,377.94
2,185.00	3.20	42.60	2,183.58	-41.13	34.32	41.11	53.55	50.14	564,735.32	611,381.11
2,279.00	1.80	49.60	2,277.49	-44.03	37.21	44.01	57.63	49.78	564,738.21	611,384.01
2,373.00	1.30	77.40	2,371.45	-46.19	38.40	46.17	60.06	50.25	564,739.40	611,386.17
2,466.00	1.50	75.90	2,464.43	-48.40	38.93	48.38	62.10	51.18	564,739.93	611,388.38
2,559.00	1.40	62.20	2,557.40	-50.59	39.76	50.57	64.33	51.83	564,740.76	611,390.57
2,653.00	1.20	60.20	2,651.37	-52.46	40.78	52.44	66.43	52.13	564,741.78	611,392.44
2,746.00	1.20	64.90	2,744.35	-54.19	41.68	54.17	68.34	52.42	564,742.68	611,394.17
2,840.00	1.40	54.40	2,838.33	-56.01	42.76	55.99	70.45	52.63	564,743.76	611,395.99
2,933.00	1.40	71.70	2,931.30	-58.02	43.78	57.99	72.66	52.95	564,744.78	611,397.99
3,027.00	1.30	54.60	3,025.28	-59.98	44.76	59.95	74.82	53.26	564,745.76	611,399.95
3,114.00	1.50	52.70	3,112.25	-61.69	46.02	61.66	76.94	53.27	564,747.02	611,401.66
3,207.00	1.50	50.60	3,205.22	-63.60	47.53	63.57	79.38	53.22	564,748.53	611,403.57
3,300.00	1.80	49.30	3,298.18	-65.65	49.26	65.62	82.05	53.11	564,750.26	611,405.62
3,394.00	1.50	46.90	3,392.14	-67.66	51.06	67.64	84.75	52.95	564,752.06	611,407.64
3,488.00	0.80	201.90	3,486.13	-68.32	51.29	68.29	85.41	53.09	564,752.29	611,408.29
3,582.00	1.30	213.40	3,580.12	-67.49	49.79	67.46	83.85	53.57	564,750.79	611,407.46
3,675.00	1.50	215.00	3,673.09	-66.21	47.91	66.18	81.71	54.10	564,748.91	611,406.18
3,769.00	1.50	218.00	3,767.06	-64.74	45.94	64.72	79.36	54.63	564,746.94	611,404.72
3,863.00	1.50	232.80	3,861.02	-63.00	44.22	62.98	76.96	54.92	564,745.22	611,402.98
3,956.00	1.40	236.80	3,953.99	-61.08	42.87	61.06	74.60	54.93	564,743.87	611,401.06
4,050.00	1.30	256.90	4,047.97	-59.08	42.00	59.06	72.47	54.58	564,743.00	611,399.06
4,143.00	1.50	264.80	4,140.94	-56.84	41.65	56.82	70.45	53.76	564,742.65	611,396.82
4,236.00	1.50	286.60	4,233.91	-54.46	41.88	54.44	68.69	52.43	564,742.88	611,394.44
4,330.00	1.60	294.20	4,327.87	-52.09	42.77	52.07	67.38	50.60	564,743.77	611,392.07



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Survey

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4,423.00	2.20	298.10	4,420.82	-49.33	44.15	49.31	66.18	48.16	564,745.15	611,389.31
4,517.00	2.30	300.10	4,514.75	-46.11	45.94	46.08	65.07	45.09	564,746.94	611,386.08
4,611.00	2.40	306.40	4,608.67	-42.89	48.06	42.87	64.40	41.73	564,749.06	611,382.87
4,705.00	2.70	307.90	4,702.58	-39.56	50.58	39.54	64.20	38.01	564,751.58	611,379.54
4,798.00	3.00	305.20	4,795.46	-35.85	53.33	35.82	64.24	33.89	564,754.33	611,375.82
4,892.00	1.40	337.00	4,889.39	-33.39	55.81	33.36	65.02	30.87	564,756.81	611,373.36
4,985.00	1.50	22.40	4,982.37	-33.41	57.98	33.38	66.90	29.93	564,758.98	611,373.38
5,079.00	1.30	7.60	5,076.34	-34.02	60.17	33.99	69.11	29.46	564,761.17	611,373.99
5,173.00	1.30	348.90	5,170.32	-33.96	62.28	33.93	70.92	28.58	564,763.28	611,373.93
5,266.00	1.20	345.00	5,263.29	-33.50	64.25	33.47	72.45	27.52	564,765.25	611,373.47
5,360.00	1.30	333.50	5,357.27	-32.78	66.16	32.74	73.82	26.33	564,767.16	611,372.74
5,453.00	1.00	31.80	5,450.26	-32.73	67.79	32.70	75.26	25.75	564,768.79	611,372.70
5,547.00	1.50	75.50	5,544.24	-34.36	68.80	34.32	76.88	26.51	564,769.80	611,374.32
5,641.00	0.60	84.50	5,638.22	-36.04	69.15	36.00	77.96	27.50	564,770.15	611,376.00
5,735.00	0.50	120.80	5,732.21	-36.88	68.99	36.84	78.21	28.10	564,769.99	611,376.84
5,829.00	0.40	167.10	5,826.21	-37.31	68.46	37.27	77.95	28.56	564,769.46	611,377.27
5,923.00	0.60	228.50	5,920.21	-37.01	67.81	36.97	77.24	28.60	564,768.81	611,376.97
6,016.00	0.90	258.30	6,013.20	-35.93	67.34	35.89	76.31	28.06	564,768.34	611,375.89
6,109.00	0.90	43.20	6,106.20	-35.71	67.73	35.68	76.55	27.78	564,768.73	611,375.68
6,202.00	1.60	65.00	6,199.17	-37.39	68.81	37.36	78.29	28.50	564,769.81	611,377.36
6,296.00	1.00	70.60	6,293.15	-39.36	69.63	39.32	79.97	29.45	564,770.63	611,379.32
6,390.00	1.10	72.70	6,387.13	-40.99	70.18	40.95	81.25	30.27	564,771.18	611,380.95
6,483.00	1.00	33.20	6,480.12	-42.29	71.12	42.25	82.72	30.71	564,772.12	611,382.25
6,576.00	1.20	27.20	6,573.10	-43.18	72.67	43.14	84.51	30.70	564,773.67	611,383.14
6,670.00	1.20	2.70	6,667.08	-43.68	74.52	43.64	86.36	30.35	564,775.52	611,383.64
6,764.00	1.20	2.30	6,761.06	-43.76	76.49	43.72	88.10	29.75	564,777.49	611,383.72
6,857.00	0.80	27.10	6,854.05	-44.10	78.04	44.06	89.62	29.45	564,779.04	611,384.06



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6,950.00	0.80	44.40	6,947.04	-44.85	79.08	44.81	90.89	29.54	564,780.08	611,384.81
7,044.00	0.70	38.30	7,041.03	-45.66	80.00	45.62	92.10	29.69	564,781.00	611,385.62
7,137.00	0.80	48.50	7,134.02	-46.50	80.88	46.46	93.27	29.88	564,781.88	611,386.46
7,208.00	0.70	56.20	7,205.02	-47.23	81.45	47.19	94.13	30.09	564,782.45	611,387.19
7,301.00	3.80	303.50	7,297.95	-45.14	83.47	45.09	94.87	28.38	564,784.47	611,385.09
7,348.00	10.90	298.90	7,344.54	-39.94	86.48	39.90	95.24	24.77	564,787.48	611,379.90
7,395.00	16.70	298.30	7,390.16	-30.10	91.83	30.05	96.62	18.12	564,792.83	611,370.05
7,442.00	22.50	296.90	7,434.42	-16.13	99.11	16.08	100.40	9.21	564,800.11	611,356.08
7,489.00	27.40	296.20	7,477.02	1.60	107.96	-1.66	107.97	359.12	564,808.96	611,338.34
7,536.00	32.70	291.30	7,517.69	23.15	117.35	-23.21	119.62	348.81	564,818.35	611,316.79
7,583.00	36.20	284.90	7,556.46	48.40	125.54	-48.47	134.57	338.89	564,826.54	611,291.53
7,630.00	38.90	278.60	7,593.73	76.42	131.32	-76.49	151.97	329.78	564,832.32	611,263.51
7,676.00	41.40	274.50	7,628.89	105.87	134.67	-105.94	171.35	321.81	564,835.67	611,234.06
7,723.00	43.00	273.80	7,663.71	137.36	136.95	-137.43	194.02	314.90	564,837.95	611,202.57
7,770.00	46.10	274.00	7,697.20	170.25	139.20	-170.32	219.96	309.26	564,840.20	611,169.68
7,817.00	50.70	275.30	7,728.40	205.26	142.06	-205.34	249.69	304.68	564,843.06	611,134.66
7,863.00	54.50	277.70	7,756.33	241.56	146.21	-241.63	282.43	301.18	564,847.21	611,098.37
7,910.00	56.80	279.00	7,782.85	279.94	151.85	-280.02	318.54	298.47	564,852.85	611,059.98
7,957.00	59.40	279.50	7,807.69	319.32	158.27	-319.40	356.46	296.36	564,859.27	611,020.60
8,004.00	62.00	278.60	7,830.69	359.79	164.71	-359.87	395.77	294.59	564,865.71	610,980.13
8,051.00	66.60	275.90	7,851.07	401.78	170.03	-401.87	436.36	292.93	564,871.03	610,938.13
8,098.00	72.00	274.10	7,867.67	445.56	173.85	-445.65	478.36	291.31	564,874.85	610,894.35
8,144.00	76.20	273.50	7,880.27	489.69	176.78	-489.78	520.71	289.85	564,877.78	610,850.22
8,191.00	81.30	272.10	7,889.44	535.72	179.03	-535.81	564.93	288.48	564,880.03	610,804.19
8,238.00	87.10	270.40	7,894.19	582.44	180.04	-582.54	609.72	287.17	564,881.04	610,757.46
8,331.00	90.10	270.20	7,896.46	675.40	180.53	-675.50	699.20	284.96	564,881.53	610,664.50
8,424.00	90.70	270.70	7,895.81	768.40	181.26	-768.49	789.58	283.27	564,882.26	610,571.51



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Well @ 3269.50usft
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Minimum Curvature
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8,518.00	91.30	271.40	7,894.17	862.36	182.98	-862.46	881.66	281.98	564,883.98	610,477.54
8,612.00	91.90	271.40	7,891.55	956.30	185.28	-956.39	974.18	280.96	564,886.28	610,383.61
8,706.00	92.40	271.40	7,888.02	1,050.20	187.57	-1,050.30	1,066.92	280.13	564,888.57	610,289.70
8,799.00	90.80	270.30	7,885.42	1,143.15	188.95	-1,143.25	1,158.76	279.38	564,889.95	610,196.75
8,893.00	91.00	269.50	7,883.95	1,237.14	188.79	-1,237.24	1,251.56	278.68	564,889.79	610,102.76
8,986.00	92.60	269.80	7,881.03	1,330.09	188.22	-1,330.19	1,343.44	278.05	564,889.22	610,009.81
9,080.00	91.30	270.40	7,877.83	1,424.03	188.38	-1,424.13	1,436.53	277.54	564,889.38	609,915.87
9,174.00	91.20	269.90	7,875.78	1,518.01	188.63	-1,518.11	1,529.78	277.08	564,889.63	609,821.89
9,267.00	92.80	269.90	7,872.53	1,610.95	188.47	-1,611.05	1,622.03	276.67	564,889.47	609,728.95
9,361.00	90.90	269.10	7,869.50	1,704.89	187.65	-1,704.99	1,715.28	276.28	564,888.65	609,635.01
9,454.00	89.70	268.10	7,869.01	1,797.86	185.38	-1,797.96	1,807.49	275.89	564,886.38	609,542.04
9,548.00	91.00	267.70	7,868.43	1,891.79	181.93	-1,891.89	1,900.62	275.49	564,882.93	609,448.11
9,642.00	92.80	267.90	7,865.32	1,985.67	178.33	-1,985.76	1,993.76	275.13	564,879.33	609,354.24
9,736.00	91.30	268.00	7,861.96	2,079.55	174.97	-2,079.64	2,086.99	274.81	564,875.97	609,260.36
9,830.00	89.30	268.20	7,861.46	2,173.49	171.85	-2,173.58	2,180.37	274.52	564,872.85	609,166.42
9,924.00	90.60	268.30	7,861.55	2,267.45	168.98	-2,267.54	2,273.82	274.26	564,869.98	609,072.46
10,017.00	92.00	268.00	7,859.44	2,360.38	165.98	-2,360.46	2,366.29	274.02	564,866.98	608,979.54
10,110.00	93.30	268.00	7,855.14	2,453.22	162.73	-2,453.30	2,458.70	273.80	564,863.73	608,886.70
10,203.00	94.60	267.80	7,848.73	2,545.94	159.34	-2,546.02	2,551.00	273.58	564,860.34	608,793.98
10,297.00	92.80	268.60	7,842.66	2,639.69	156.39	-2,639.77	2,644.40	273.39	564,857.39	608,700.23
10,390.00	92.50	269.30	7,838.36	2,732.58	154.69	-2,732.66	2,737.03	273.24	564,855.69	608,607.34
10,484.00	94.10	268.70	7,832.95	2,826.40	153.05	-2,826.48	2,830.62	273.10	564,854.05	608,513.52
10,577.00	93.40	270.20	7,826.87	2,919.20	152.16	-2,919.28	2,923.24	272.98	564,853.16	608,420.72
10,671.00	92.60	270.90	7,821.95	3,013.06	153.06	-3,013.14	3,017.03	272.91	564,854.06	608,326.86
10,765.00	94.20	271.00	7,816.38	3,106.88	154.62	-3,106.96	3,110.81	272.85	564,855.62	608,233.04
10,858.00	92.90	271.20	7,810.62	3,199.68	156.40	-3,199.76	3,203.58	272.80	564,857.40	608,140.24
10,951.00	93.10	271.20	7,805.75	3,292.53	158.34	-3,292.62	3,296.42	272.75	564,859.34	608,047.38



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Stebbins Fed 19
Well: No. 124H
Wellbore: OH
Design: Gyro-MWD-98'-12354', Proj. 12490'

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3269.50usft
MD Reference: Well @ 3269.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
11,045.00	93.70	271.10	7,800.18	3,386.35	160.23	-3,386.43	3,390.22	272.71	564,861.23	607,953.57
11,138.00	90.40	270.40	7,796.85	3,479.26	161.44	-3,479.35	3,483.09	272.66	564,862.44	607,860.65
11,232.00	91.40	270.70	7,795.37	3,573.25	162.34	-3,573.33	3,577.02	272.60	564,863.34	607,766.67
11,325.00	92.10	270.50	7,792.53	3,666.20	163.32	-3,666.28	3,669.92	272.55	564,864.32	607,673.72
11,418.00	93.50	270.60	7,787.99	3,759.08	164.21	-3,759.17	3,762.75	272.50	564,865.21	607,580.83
11,512.00	91.80	270.00	7,783.64	3,852.97	164.70	-3,853.06	3,856.58	272.45	564,865.70	607,486.94
11,605.00	90.20	270.00	7,782.02	3,945.96	164.70	-3,946.04	3,949.48	272.39	564,865.70	607,393.96
11,698.00	90.70	269.90	7,781.29	4,038.95	164.62	-4,039.04	4,042.39	272.33	564,865.62	607,300.96
11,792.00	91.40	269.30	7,779.57	4,132.93	163.96	-4,133.02	4,136.27	272.27	564,864.96	607,206.98
11,886.00	90.40	270.80	7,778.09	4,226.92	164.05	-4,227.00	4,230.19	272.22	564,865.05	607,113.00
11,980.00	88.70	272.00	7,778.83	4,320.88	166.34	-4,320.97	4,324.17	272.20	564,867.34	607,019.03
12,073.00	89.10	272.00	7,780.62	4,413.81	169.59	-4,413.89	4,417.15	272.20	564,870.59	606,926.11
12,167.00	90.20	272.00	7,781.19	4,507.74	172.87	-4,507.83	4,511.15	272.20	564,873.87	606,832.17
12,260.00	91.30	271.30	7,779.97	4,600.69	175.55	-4,600.79	4,604.13	272.19	564,876.55	606,739.21
12,354.00	92.20	271.40	7,777.10	4,694.62	177.76	-4,694.71	4,698.08	272.17	564,878.76	606,645.29
Last Survey: 12354' MD										
12,490.00	92.20	271.40	7,771.88	4,830.48	181.08	-4,830.57	4,833.97	272.15	564,882.08	606,509.43
PTB: 12490' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,243.00	1,242.64	-2.28	22.04	Pro MWD First Survey: 1243' MD
12,354.00	7,777.10	177.76	-4,694.71	Last Survey: 12354' MD
12,490.00	7,771.88	181.08	-4,830.57	PTB: 12490' MD