



RECEIVED NOV 28 2017

PRODIRECTIONAL



*Please
send in
Rorwell daily
package -
to Janet
Smith*

Stebbins 19 Fed Com No. 123H

Eddy County, NM

30-015-44170

November 20, 2017

Job No. LNM5154017

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

November 20, 2017



Operator Name: Matador Resources
Well Name: Stebbins 19 Fed Com No. 123H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5154017

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	1,250' MD – 12,331' MD	12,470' MD	10/25/17 – 11/01/17	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. 123H
OH**

Survey: ProDirectional

Survey Report

20 November, 2017





ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Stebbins Fed 19
Well: No. 123H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well No. 123H
TVD Reference: Well @ 3275.50usft
MD Reference: Well @ 3275.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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:	32.5580904
		Longitude:	-104.1071133
		Grid Convergence:	0.12 °

Well		No. 123H				
Well Position	+N/-S	0.00 usft	Northing:	566,838.00 usft	Latitude:	32.5580904
	+E/-W	0.00 usft	Easting:	611,035.00 usft	Longitude:	-104.1071133
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,247.00 usft	

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
			(°)	(°)	(nT)	
	HDGM	10/10/2017	7.37	60.42	48,165.00	

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	269.97	



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Survey Program		Date	11/20/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
98.00	1,120.00	Survey #1 (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro	
1,250.00	12,470.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HRGM	

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	566,838.00	611,035.00
98.00	0.15	70.81	98.00	-0.12	0.04	0.12	0.13	70.81	566,838.04	611,035.12
192.00	0.13	102.75	192.00	-0.34	0.06	0.34	0.35	80.18	566,838.06	611,035.34
286.00	0.16	32.44	286.00	-0.52	0.15	0.52	0.54	74.16	566,838.15	611,035.52
380.00	0.90	6.43	379.99	-0.67	0.99	0.67	1.20	34.03	566,838.99	611,035.67
474.00	1.25	8.87	473.98	-0.91	2.74	0.91	2.88	18.38	566,840.74	611,035.91
568.00	1.23	358.04	567.96	-1.04	4.76	1.03	4.87	12.25	566,842.76	611,036.03
662.00	0.80	18.84	661.94	-1.21	6.39	1.21	6.50	10.73	566,844.39	611,036.21
756.00	0.53	104.86	755.94	-1.85	6.90	1.84	7.14	14.96	566,844.90	611,036.84
850.00	1.18	127.47	849.93	-3.03	6.20	3.03	6.90	26.06	566,844.20	611,038.03
944.00	0.91	115.91	943.91	-4.47	5.28	4.47	6.92	40.24	566,843.28	611,039.47
1,038.00	0.52	126.17	1,037.90	-5.49	4.70	5.49	7.23	49.39	566,842.70	611,040.49
1,120.00	0.46	150.91	1,119.90	-5.95	4.20	5.95	7.28	54.79	566,842.20	611,040.95
Last Gyro: 1120' MD										
1,250.00	0.90	180.00	1,249.89	-6.20	2.72	6.20	6.77	66.31	566,840.72	611,041.20
Pro MWD First Survey: 1250' MD										
1,343.00	1.10	186.70	1,342.88	-6.10	1.10	6.10	6.20	79.74	566,839.10	611,041.10
1,437.00	2.30	150.50	1,436.84	-6.92	-1.43	6.92	7.07	101.71	566,836.57	611,041.92
1,531.00	3.80	139.50	1,530.70	-9.87	-5.45	9.87	11.27	118.88	566,832.55	611,044.87
1,624.00	4.70	143.50	1,623.44	-14.13	-10.85	14.14	17.82	127.50	566,827.15	611,049.14
1,718.00	5.40	142.00	1,717.08	-19.14	-17.43	19.15	25.90	132.31	566,820.57	611,054.15
1,811.00	6.40	143.20	1,809.59	-24.94	-25.03	24.95	35.34	135.09	566,812.97	611,059.95



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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)	
1,905.00	7.30	144.50	1,902.91	-31.54	-34.09	31.56	46.45	137.21	566,803.91	611,066.56	
1,998.00	5.80	147.90	1,995.30	-37.47	-42.88	37.49	56.96	138.84	566,795.12	611,072.49	
2,092.00	5.80	153.90	2,088.82	-42.07	-51.17	42.10	66.26	140.55	566,786.83	611,077.10	
2,185.00	6.50	155.60	2,181.29	-46.31	-60.18	46.34	75.96	142.40	566,777.82	611,081.34	
2,279.00	5.90	144.20	2,274.74	-51.33	-68.95	51.37	85.98	143.31	566,769.05	611,086.37	
2,373.00	6.10	137.00	2,368.23	-57.56	-76.52	57.60	95.78	143.03	566,761.48	611,092.60	
2,466.00	6.90	133.50	2,460.63	-64.98	-83.98	65.02	106.21	142.25	566,754.02	611,100.02	
2,560.00	7.70	130.50	2,553.87	-73.86	-91.95	73.91	117.97	141.21	566,746.05	611,108.91	
2,653.00	7.00	142.30	2,646.11	-82.06	-100.49	82.11	129.77	140.75	566,737.51	611,117.11	
2,746.00	7.40	146.40	2,738.37	-88.83	-109.96	88.89	141.39	141.05	566,728.04	611,123.89	
2,840.00	8.50	146.50	2,831.47	-96.01	-120.79	96.07	154.34	141.50	566,717.21	611,131.07	
2,933.00	6.90	146.00	2,923.63	-102.92	-131.16	102.99	166.76	141.86	566,706.84	611,137.99	
3,026.00	6.60	149.40	3,015.98	-108.76	-140.39	108.84	177.64	142.22	566,697.61	611,143.84	
3,119.00	6.90	148.30	3,108.34	-114.41	-149.74	114.49	188.50	142.60	566,688.26	611,149.49	
3,213.00	6.80	148.30	3,201.67	-120.30	-159.28	120.38	199.66	142.92	566,678.72	611,155.38	
3,306.00	3.50	139.90	3,294.28	-125.02	-166.14	125.11	207.98	143.02	566,671.86	611,160.11	
3,400.00	3.00	138.10	3,388.13	-128.51	-170.16	128.60	213.29	142.92	566,667.84	611,163.60	
3,493.00	3.20	139.20	3,480.99	-131.83	-173.94	131.92	218.31	142.82	566,664.06	611,166.92	
3,587.00	3.20	139.20	3,574.85	-135.26	-177.91	135.35	223.54	142.74	566,660.09	611,170.35	
3,680.00	3.60	118.50	3,667.69	-139.52	-181.27	139.61	228.80	142.40	566,656.73	611,174.61	
3,774.00	7.60	126.60	3,761.22	-147.10	-186.39	147.20	237.50	141.70	566,651.61	611,182.20	
3,867.00	8.00	127.60	3,853.36	-157.16	-194.00	157.26	249.74	140.97	566,644.00	611,192.26	
3,961.00	7.60	126.40	3,946.49	-167.34	-201.68	167.45	262.13	140.30	566,636.32	611,202.45	
4,054.00	7.30	124.40	4,038.71	-177.16	-208.67	177.27	273.80	139.65	566,629.33	611,212.27	
4,148.00	7.10	123.30	4,131.96	-186.94	-215.23	187.06	285.16	139.01	566,622.77	611,222.06	
4,241.00	7.00	121.70	4,224.26	-196.57	-221.37	196.68	296.12	138.38	566,616.63	611,231.68	
4,335.00	6.60	119.70	4,317.60	-206.13	-227.05	206.25	306.74	137.75	566,610.95	611,241.25	



ProDirectional
Survey Report



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4,428.00	6.40	118.40		4,410.00	-215.33	-232.17	215.45	316.73	137.14	566,605.83	611,250.45
4,522.00	7.30	128.20		4,503.33	-224.63	-238.35	224.75	327.60	136.68	566,599.65	611,259.75
4,615.00	8.00	129.90		4,595.50	-234.23	-246.16	234.36	339.88	136.41	566,591.84	611,269.36
4,709.00	7.60	128.90		4,688.64	-244.08	-254.26	244.22	352.54	136.15	566,583.74	611,279.22
4,802.00	7.20	128.00		4,780.86	-253.46	-261.71	253.59	364.42	135.90	566,576.29	611,288.59
4,896.00	7.10	126.00		4,874.13	-262.80	-268.75	262.94	375.98	135.63	566,569.25	611,297.94
4,989.00	6.70	125.80		4,966.46	-271.84	-275.30	271.99	387.00	135.35	566,562.70	611,306.99
5,082.00	6.30	124.70		5,058.86	-280.43	-281.38	280.58	397.37	135.08	566,556.62	611,315.58
5,176.00	6.00	141.10		5,152.32	-287.76	-288.14	287.91	407.33	135.02	566,549.86	611,322.91
5,269.00	6.30	144.50		5,244.79	-293.77	-296.07	293.92	417.19	135.21	566,541.93	611,328.92
5,362.00	5.60	144.30		5,337.29	-299.37	-303.91	299.53	426.71	135.42	566,534.09	611,334.53
5,455.00	5.00	145.10		5,429.89	-304.34	-310.92	304.50	435.19	135.60	566,527.08	611,339.50
5,549.00	4.60	146.30		5,523.56	-308.77	-317.42	308.94	442.94	135.78	566,520.58	611,343.94
5,643.00	4.10	144.80		5,617.29	-312.79	-323.30	312.96	449.97	135.93	566,514.70	611,347.96
5,736.00	3.70	145.80		5,710.07	-316.40	-328.50	316.57	456.21	136.06	566,509.50	611,351.57
5,830.00	3.30	118.40		5,803.90	-320.48	-332.29	320.65	461.78	136.02	566,505.71	611,355.65
5,923.00	3.30	93.10		5,896.75	-325.51	-333.71	325.68	466.29	135.70	566,504.29	611,360.68
6,017.00	4.60	107.70		5,990.53	-331.80	-335.00	331.97	471.63	135.26	566,503.00	611,366.97
6,111.00	5.70	112.90		6,084.15	-339.69	-337.97	339.86	479.30	134.84	566,500.03	611,374.86
6,204.00	6.40	126.00		6,176.64	-348.13	-342.81	348.31	488.71	134.54	566,495.19	611,383.31
6,298.00	8.10	148.50		6,269.90	-355.83	-351.54	356.01	500.32	134.64	566,486.46	611,391.01
6,391.00	8.00	176.90		6,362.02	-359.60	-363.59	359.79	511.51	135.30	566,474.41	611,394.79
6,485.00	6.50	176.30		6,455.27	-360.29	-375.43	360.48	520.48	136.16	566,462.57	611,395.48
6,579.00	6.10	171.70		6,548.70	-361.35	-385.69	361.55	528.65	136.85	566,452.31	611,396.55
6,672.00	6.00	171.50		6,641.18	-362.77	-395.38	362.98	536.73	137.45	566,442.62	611,397.98
6,766.00	5.80	172.20		6,734.68	-364.14	-404.95	364.35	544.73	138.02	566,433.05	611,399.35
6,859.00	4.80	200.20		6,827.30	-363.43	-413.26	363.65	550.47	138.65	566,424.74	611,398.65



ProDirectional Survey Report



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6,952.00	4.30	200.30	6,920.01	-360.87	-420.18	361.09	554.02	139.32	566,417.82	611,396.09	
7,045.00	4.10	236.40	7,012.77	-356.89	-425.29	357.11	555.34	139.98	566,412.71	611,392.11	
7,139.00	3.20	269.10	7,106.59	-351.47	-427.19	351.69	553.33	140.54	566,410.81	611,386.69	
7,232.00	3.00	259.50	7,199.46	-346.48	-427.67	346.70	550.55	140.97	566,410.33	611,381.70	
7,314.00	4.50	250.40	7,281.28	-341.34	-429.14	341.56	548.48	141.48	566,408.86	611,376.56	
7,361.00	10.30	258.20	7,327.87	-335.48	-430.62	335.71	546.02	142.06	566,407.38	611,370.71	
7,408.00	17.00	264.50	7,373.52	-324.51	-432.14	324.74	540.56	143.08	566,405.86	611,359.74	
7,455.00	23.60	267.10	7,417.57	-308.26	-433.28	308.49	531.88	144.55	566,404.72	611,343.49	
7,501.00	27.90	266.60	7,459.00	-288.31	-434.38	288.54	521.48	146.41	566,403.62	611,323.54	
7,548.00	31.50	266.80	7,499.82	-265.07	-435.72	265.29	510.13	148.66	566,402.28	611,300.29	
7,595.00	35.10	268.00	7,539.09	-239.29	-436.88	239.52	498.23	151.27	566,401.12	611,274.52	
7,642.00	37.80	270.00	7,576.90	-211.38	-437.35	211.61	485.85	154.18	566,400.65	611,246.61	
7,688.00	39.20	270.60	7,612.89	-182.74	-437.20	182.97	473.94	157.29	566,400.80	611,217.97	
7,735.00	41.00	270.30	7,648.84	-152.47	-436.96	152.70	462.87	160.74	566,401.04	611,187.70	
7,782.00	43.90	270.10	7,683.52	-120.75	-436.85	120.98	453.30	164.52	566,401.15	611,155.98	
7,829.00	49.20	269.00	7,715.83	-86.65	-437.13	86.88	445.68	168.76	566,400.87	611,121.88	
7,875.00	52.80	267.60	7,744.78	-50.92	-438.21	51.15	441.18	173.34	566,399.79	611,086.15	
7,922.00	54.20	267.10	7,772.73	-13.18	-439.95	13.41	440.16	178.25	566,398.05	611,048.41	
7,969.00	56.10	267.50	7,799.59	25.35	-441.77	-25.11	442.48	183.25	566,396.23	611,009.89	
8,016.00	60.70	269.00	7,824.21	65.35	-442.98	-65.11	447.74	188.36	566,395.02	610,969.89	
8,062.00	65.80	269.90	7,844.91	106.41	-443.37	-106.18	455.90	193.47	566,394.63	610,928.82	
8,109.00	71.60	267.90	7,861.98	150.17	-444.22	-149.94	468.84	198.65	566,393.78	610,885.06	
8,156.00	75.50	267.60	7,875.28	195.20	-445.99	-194.97	486.75	203.61	566,392.01	610,840.03	
8,203.00	79.70	267.90	7,885.37	241.06	-447.79	-240.83	508.44	208.27	566,390.21	610,794.17	
8,249.00	84.10	270.00	7,891.85	286.58	-448.62	-286.35	532.22	212.55	566,389.38	610,748.65	
8,343.00	89.40	270.60	7,897.18	380.39	-448.13	-380.16	587.66	220.31	566,389.87	610,654.84	
8,436.00	91.60	270.00	7,896.37	473.38	-447.64	-473.15	651.35	226.59	566,390.36	610,561.85	



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8,530.00	92.70	269.30	7,892.84	567.31	-448.22	-567.08	722.82	231.68	566,389.78	610,467.92	
8,623.00	90.90	269.30	7,889.92	660.26	-449.35	-660.02	798.46	235.75	566,388.65	610,374.98	
8,717.00	91.00	269.10	7,888.36	754.24	-450.66	-754.00	878.42	239.13	566,387.34	610,281.00	
8,810.00	92.10	268.30	7,885.85	847.18	-452.77	-846.94	960.37	241.87	566,385.23	610,188.06	
8,904.00	93.00	267.80	7,881.67	941.03	-455.97	-940.79	1,045.46	244.14	566,382.03	610,094.21	
8,997.00	90.40	269.50	7,878.91	1,033.95	-458.16	-1,033.71	1,130.69	246.10	566,379.84	610,001.29	
9,090.00	90.20	270.00	7,878.42	1,126.95	-458.56	-1,126.71	1,216.45	247.85	566,379.44	609,908.29	
9,184.00	91.30	269.50	7,877.19	1,220.94	-458.97	-1,220.70	1,304.13	249.39	566,379.03	609,814.30	
9,277.00	92.20	268.40	7,874.35	1,313.88	-460.68	-1,313.64	1,392.07	250.67	566,377.32	609,721.36	
9,370.00	90.70	271.40	7,872.00	1,406.84	-460.84	-1,406.59	1,480.16	251.86	566,377.16	609,628.41	
9,463.00	90.90	271.30	7,870.70	1,499.80	-458.65	-1,499.56	1,568.13	252.99	566,379.35	609,535.44	
9,557.00	91.70	270.70	7,868.56	1,593.76	-457.01	-1,593.52	1,657.76	254.00	566,380.99	609,441.48	
9,651.00	88.70	271.50	7,868.24	1,687.73	-455.20	-1,687.49	1,747.81	254.90	566,382.80	609,347.51	
9,744.00	88.70	270.90	7,870.35	1,780.68	-453.25	-1,780.45	1,837.23	255.72	566,384.75	609,254.55	
9,838.00	89.40	270.00	7,871.91	1,874.67	-452.52	-1,874.43	1,928.28	256.43	566,385.48	609,160.57	
9,931.00	91.80	269.70	7,870.93	1,967.65	-452.76	-1,967.42	2,018.84	257.04	566,385.24	609,067.58	
10,025.00	93.30	270.10	7,866.75	2,061.56	-452.92	-2,061.32	2,110.49	257.61	566,385.08	608,973.68	
10,119.00	92.40	270.70	7,862.08	2,155.44	-452.27	-2,155.20	2,202.14	258.15	566,385.73	608,879.80	
10,212.00	93.10	270.00	7,857.61	2,248.33	-451.70	-2,248.09	2,293.02	258.64	566,386.30	608,786.91	
10,306.00	93.70	269.50	7,852.04	2,342.16	-452.11	-2,341.92	2,385.16	259.07	566,385.89	608,693.08	
10,399.00	94.50	266.50	7,845.39	2,434.86	-455.35	-2,434.62	2,476.83	259.41	566,382.65	608,600.38	
10,493.00	93.10	270.80	7,839.16	2,528.60	-457.55	-2,528.36	2,569.43	259.74	566,380.45	608,506.64	
10,587.00	93.10	271.30	7,834.07	2,622.44	-455.83	-2,622.21	2,661.53	260.14	566,382.17	608,412.79	
10,680.00	90.90	270.60	7,830.83	2,715.37	-454.29	-2,715.13	2,752.87	260.50	566,383.71	608,319.87	
10,774.00	90.40	270.00	7,829.76	2,809.36	-453.80	-2,809.12	2,845.54	260.82	566,384.20	608,225.88	
10,866.00	90.80	269.50	7,828.80	2,901.35	-454.20	-2,901.12	2,936.46	261.10	566,383.80	608,133.88	
10,960.00	91.50	268.90	7,826.91	2,995.33	-455.51	-2,995.09	3,029.53	261.35	566,382.49	608,039.91	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Stebbins Fed 19
Well: No. 123H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well No. 123H
TVD Reference: Well @ 3275.50usft
MD Reference: Well @ 3275.50usft
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)	
11,053.00	92.20	268.30	7,823.91	3,088.25	-457.78	-3,088.01	3,121.76	261.57	566,380.22	607,946.99	
11,147.00	92.80	268.20	7,819.81	3,182.12	-460.65	-3,181.88	3,215.05	261.76	566,377.35	607,853.12	
11,239.00	93.40	267.60	7,814.83	3,273.92	-464.02	-3,273.68	3,306.40	261.93	566,373.98	607,761.32	
11,333.00	94.80	269.00	7,808.11	3,367.64	-466.80	-3,367.39	3,399.59	262.11	566,371.20	607,667.61	
11,426.00	96.20	269.70	7,799.20	3,460.20	-467.85	-3,459.96	3,491.44	262.30	566,370.15	607,575.04	
11,520.00	95.40	270.60	7,789.70	3,553.72	-467.61	-3,553.47	3,584.11	262.50	566,370.39	607,481.53	
11,613.00	94.00	270.80	7,782.08	3,646.39	-466.47	-3,646.15	3,675.87	262.71	566,371.53	607,388.85	
11,707.00	92.70	271.80	7,776.59	3,740.20	-464.34	-3,739.96	3,768.68	262.92	566,373.66	607,295.04	
11,801.00	91.70	271.70	7,772.98	3,834.09	-461.48	-3,833.85	3,861.52	263.14	566,376.52	607,201.15	
11,894.00	92.10	271.20	7,769.89	3,927.01	-459.12	-3,926.77	3,953.52	263.33	566,378.88	607,108.23	
11,988.00	92.30	270.00	7,766.29	4,020.93	-458.14	-4,020.69	4,046.71	263.50	566,379.86	607,014.31	
12,081.00	93.10	269.10	7,761.90	4,113.82	-458.87	-4,113.58	4,139.10	263.63	566,379.13	606,921.42	
12,143.00	93.30	267.90	7,758.44	4,175.70	-460.49	-4,175.46	4,200.78	263.71	566,377.51	606,859.54	
12,237.00	93.10	266.50	7,753.20	4,269.45	-465.07	-4,269.20	4,294.46	263.78	566,372.93	606,765.80	
12,331.00	93.20	265.20	7,748.03	4,363.06	-471.87	-4,362.81	4,388.26	263.83	566,366.13	606,672.19	
Last Survey: 12331' MD											
12,470.00	93.20	265.20	7,740.27	4,501.36	-483.48	-4,501.11	4,527.00	263.87	566,354.52	606,533.89	
PTB: 12470' MD											

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,120.00	1,119.90	4.20	5.95	Last Gyro: 1120' MD
1,250.00	1,249.89	2.72	6.20	Pro MWD First Survey: 1250' MD
12,331.00	7,748.03	-471.87	-4,362.81	Last Survey: 12331' MD
12,470.00	7,740.27	-483.48	-4,501.11	PTB: 12470' MD