



PRODIRECTIONAL

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DISTRICT II-ARTESIA O.C.D.



Garrett Fed Com No. 202H

Eddy County, NM

November 12, 2018

Job No. LNM5184918

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

November 12, 2018



Operator Name: Matador Resources
Well Name: Garrett Fed Com No. 202H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5184918

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	154' MD – 14,634' MD	14,716' MD	09/30/18 – 10/18/18	MWD-OWSG

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

Garrett Fed Com

No. 202H

OH

Survey: ProDirectional

Survey Report

12 November, 2018





ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD 83)
Site: Garrett Fed Com
Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well No: 202H
Well @ 2949.50usft
Well @ 2949.50usft
Grid
Minimum Curvature
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	Garrett Fed Com		
Site Position:		Northing:	429,558.00 usft
From:	Map	Easting:	640,352.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.180528
		Longitude:	-104.013291
		Grid Convergence:	0.17 °

Well	No. 202H					
Well Position	+N/-S	0.00 usft	Northing:	427,527.00 usft	Latitude:	32.174945
	+E/-W	0.00 usft	Easting:	640,378.00 usft	Longitude:	-104.013227
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	2,921.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	8/22/2018	7.07	59.93	47,968.40

Design	MWD			
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	90.10

Survey Program	Date	11/12/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
154.00	14,716.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



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MD Reference: Well @ 2949.50usft
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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	427,527.00	640,378.00	
154.00	1.90	8.20	153.97	0.36	2.53	0.36	2.55	8.20	427,529.53	640,378.36	
Pro MWD First Survey: 154' MD											
245.00	2.40	357.40	244.91	0.48	5.92	0.49	5.94	4.76	427,532.92	640,378.49	
336.00	2.50	351.30	335.82	0.09	9.79	0.11	9.79	0.62	427,536.79	640,378.11	
428.00	2.40	357.20	427.74	-0.32	13.70	-0.29	13.70	358.78	427,540.70	640,377.71	
519.00	1.90	10.40	518.68	-0.14	17.08	-0.11	17.08	359.62	427,544.08	640,377.89	
561.00	2.20	7.40	560.65	0.09	18.57	0.12	18.57	0.36	427,545.57	640,378.12	
701.00	2.10	16.70	700.55	1.16	23.69	1.20	23.72	2.90	427,550.69	640,379.20	
792.00	3.00	4.20	791.46	1.81	27.66	1.85	27.72	3.83	427,554.66	640,379.85	
882.00	4.70	341.00	881.26	0.77	33.50	0.83	33.51	1.41	427,560.50	640,378.83	
977.00	6.90	323.00	975.78	-3.95	41.74	-3.88	41.92	354.69	427,568.74	640,374.12	
1,072.00	7.50	311.10	1,070.03	-12.07	50.37	-11.98	51.78	346.62	427,577.37	640,366.02	
1,167.00	8.00	309.80	1,164.16	-21.84	58.68	-21.73	62.57	339.68	427,585.68	640,356.27	
1,262.00	7.70	312.90	1,258.27	-31.59	67.24	-31.48	74.24	334.92	427,594.24	640,346.52	
1,357.00	7.60	315.40	1,352.43	-40.68	76.05	-40.55	86.18	331.93	427,603.05	640,337.45	
1,453.00	8.10	322.00	1,447.53	-49.32	85.90	-49.17	98.97	330.21	427,612.90	640,328.83	
1,548.00	8.30	329.70	1,541.56	-56.92	97.09	-56.75	112.46	329.69	427,624.09	640,321.25	
1,643.00	8.30	323.70	1,635.57	-64.46	108.54	-64.27	126.14	329.37	427,635.54	640,313.73	
1,739.00	7.90	311.90	1,730.62	-73.49	118.53	-73.28	139.35	328.27	427,645.53	640,304.72	
1,834.00	8.30	312.40	1,824.67	-83.43	127.51	-83.21	152.26	326.87	427,654.51	640,294.79	
1,930.00	8.30	320.00	1,919.67	-93.02	137.49	-92.78	165.87	325.99	427,664.49	640,285.22	
2,025.00	7.60	318.70	2,013.75	-101.59	147.47	-101.33	178.92	325.51	427,674.47	640,276.67	
2,121.00	6.90	302.30	2,109.00	-110.67	155.32	-110.40	190.55	324.60	427,682.32	640,267.60	
2,216.00	7.10	302.90	2,203.29	-120.43	161.56	-120.15	201.34	323.36	427,688.56	640,257.85	
2,312.00	6.60	307.30	2,298.60	-129.81	168.12	-129.52	212.23	322.39	427,695.12	640,248.48	
2,407.00	6.10	311.30	2,393.02	-137.96	174.76	-137.65	222.46	321.77	427,701.76	640,240.35	



ProDirectional Survey Report



Company: Matador Resources
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Site: Garrett Fed Com
Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 202H
TVD Reference: Well @ 2949.50usft
MD Reference: Well @ 2949.50usft
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)
2,502.00	5.40	298.30	2,487.55	-145.70	180.21	-145.38	231.54	321.11	427,707.21	640,232.62
2,597.00	4.80	294.30	2,582.17	-153.26	183.97	-152.94	239.24	320.26	427,710.97	640,225.06
2,692.00	4.40	298.80	2,676.86	-160.08	187.36	-159.76	246.22	319.55	427,714.36	640,218.24
2,787.00	5.40	310.10	2,771.52	-166.70	191.99	-166.37	254.05	319.09	427,718.99	640,211.63
2,862.00	6.50	319.30	2,846.11	-172.18	197.49	-171.84	261.78	318.97	427,724.49	640,206.16
2,965.00	7.10	325.90	2,948.39	-179.57	207.18	-179.21	273.93	319.14	427,734.18	640,198.79
3,060.00	7.30	325.60	3,042.64	-186.29	217.02	-185.91	285.76	319.41	427,744.02	640,192.09
3,155.00	7.50	327.30	3,136.85	-193.07	227.22	-192.67	297.91	319.70	427,754.22	640,185.33
3,250.00	8.80	308.80	3,230.90	-202.10	236.99	-201.68	311.19	319.60	427,763.99	640,176.32
3,346.00	9.40	302.80	3,325.70	-214.43	245.84	-214.00	325.93	318.96	427,772.84	640,164.00
3,441.00	9.10	302.90	3,419.46	-227.27	254.12	-226.83	340.63	318.25	427,781.12	640,151.17
3,536.00	9.30	303.40	3,513.24	-240.00	262.43	-239.54	355.31	317.61	427,789.43	640,138.46
3,632.00	9.10	303.10	3,608.01	-252.85	270.84	-252.38	370.20	317.02	427,797.84	640,125.62
3,727.00	8.80	300.90	3,701.85	-265.39	278.68	-264.91	384.49	316.45	427,805.68	640,113.09
3,822.00	9.00	319.40	3,795.72	-276.48	288.05	-275.98	398.92	316.23	427,815.05	640,102.02
3,917.00	9.50	323.80	3,889.49	-285.97	300.02	-285.45	414.12	316.43	427,827.02	640,092.55
4,012.00	9.40	322.10	3,983.20	-295.39	312.47	-294.84	429.61	316.66	427,839.47	640,083.16
4,106.00	9.40	322.80	4,075.94	-304.76	324.64	-304.20	444.89	316.86	427,851.64	640,073.80
4,201.00	9.20	322.30	4,169.69	-314.12	336.83	-313.53	460.17	317.05	427,863.83	640,064.47
4,296.00	8.90	319.80	4,263.51	-323.53	348.45	-322.92	475.07	317.18	427,875.45	640,055.08
4,392.00	8.70	317.80	4,358.38	-333.22	359.50	-332.59	489.75	317.23	427,886.50	640,045.41
4,486.00	8.40	317.50	4,451.33	-342.65	369.83	-342.00	503.73	317.24	427,896.83	640,036.00
4,582.00	8.00	315.50	4,546.35	-352.09	379.76	-351.42	517.42	317.22	427,906.76	640,026.58
4,677.00	8.00	316.80	4,640.43	-361.26	389.30	-360.58	530.63	317.19	427,916.30	640,017.42
4,773.00	8.20	316.20	4,735.47	-370.59	399.11	-369.89	544.16	317.18	427,926.11	640,008.11
4,868.00	8.00	316.40	4,829.52	-379.86	408.79	-379.14	557.54	317.15	427,935.79	639,998.86
4,964.00	7.40	314.40	4,924.66	-388.90	417.95	-388.17	570.40	317.12	427,944.95	639,989.83



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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)
5,059.00	6.70	312.20	5,018.94	-397.39	425.95	-396.64	582.03	317.04	427,952.95	639,981.36
5,155.00	6.60	312.10	5,114.29	-405.64	433.41	-404.89	593.11	316.95	427,960.41	639,973.11
5,250.00	6.50	312.50	5,208.67	-413.67	440.71	-412.90	603.91	316.87	427,967.71	639,965.10
5,346.00	6.10	311.00	5,304.09	-421.54	447.72	-420.76	614.40	316.78	427,974.72	639,957.24
5,440.00	6.90	324.00	5,397.49	-428.64	455.57	-427.85	624.98	316.80	427,982.57	639,950.15
5,536.00	7.20	327.70	5,492.77	-435.26	465.32	-434.45	636.61	316.96	427,992.32	639,943.55
5,631.00	6.70	324.90	5,587.07	-441.65	474.89	-440.82	647.95	317.13	428,001.89	639,937.18
5,726.00	6.40	325.10	5,681.45	-447.88	483.76	-447.03	658.68	317.26	428,010.76	639,930.97
5,821.00	6.20	322.70	5,775.87	-454.03	492.19	-453.17	669.04	317.36	428,019.19	639,924.83
5,916.00	6.10	322.70	5,870.33	-460.21	500.28	-459.34	679.17	317.44	428,027.28	639,918.66
6,011.00	6.80	320.00	5,964.73	-466.90	508.61	-466.01	689.82	317.50	428,035.61	639,911.99
6,106.00	6.60	317.70	6,059.08	-474.20	516.95	-473.30	700.90	317.52	428,043.95	639,904.70
6,201.00	6.10	318.60	6,153.49	-481.23	524.78	-480.31	711.40	317.53	428,051.78	639,897.69
6,296.00	5.80	317.90	6,247.98	-487.80	532.12	-486.87	721.25	317.54	428,059.12	639,891.13
6,391.00	5.40	314.60	6,342.53	-494.21	538.82	-493.27	730.51	317.53	428,065.82	639,884.73
6,486.00	5.30	316.00	6,437.11	-500.45	545.12	-499.50	739.36	317.50	428,072.12	639,878.50
6,581.00	4.80	316.10	6,531.75	-506.27	551.14	-505.31	747.72	317.48	428,078.14	639,872.69
6,676.00	5.00	312.80	6,626.40	-512.07	556.82	-511.10	755.82	317.45	428,083.82	639,866.90
6,772.00	5.00	309.30	6,722.03	-518.39	562.31	-517.41	764.13	317.38	428,089.31	639,860.59
6,867.00	4.90	306.90	6,816.68	-524.84	567.37	-523.86	772.22	317.28	428,094.37	639,854.14
6,963.00	4.80	300.70	6,912.34	-531.58	571.88	-530.59	780.11	317.14	428,098.88	639,847.41
7,058.00	4.20	294.80	7,007.04	-538.17	575.37	-537.16	787.14	316.97	428,102.37	639,840.84
7,154.00	1.20	324.50	7,102.93	-541.95	577.66	-540.94	791.40	316.88	428,104.66	639,837.06
7,249.00	0.30	328.70	7,197.92	-542.66	578.68	-541.65	792.63	316.89	428,105.68	639,836.35
7,345.00	0.40	267.20	7,293.92	-543.12	578.88	-542.11	793.09	316.88	428,105.88	639,835.89
7,440.00	0.00	334.20	7,388.92	-543.45	578.87	-542.44	793.30	316.86	428,105.87	639,835.56
7,536.00	0.30	64.70	7,484.92	-543.23	578.97	-542.22	793.23	316.88	428,105.97	639,835.78



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7,630.00	0.30	198.90	7,578.92	-543.08	578.85	-542.07	793.04	316.88	428,105.85	639,835.93	
7,725.00	0.40	236.40	7,673.91	-543.44	578.43	-542.43	792.97	316.84	428,105.43	639,835.57	
7,820.00	0.70	268.50	7,768.91	-544.29	578.23	-543.29	793.41	316.78	428,105.23	639,834.71	
7,915.00	1.10	270.00	7,863.90	-545.79	578.21	-544.78	794.43	316.71	428,105.21	639,833.22	
8,011.00	0.30	66.00	7,959.89	-546.48	578.31	-545.47	794.98	316.67	428,105.31	639,832.53	
8,106.00	0.40	264.90	8,054.89	-546.58	578.39	-545.57	795.10	316.67	428,105.39	639,832.43	
8,201.00	0.80	227.00	8,149.89	-547.40	577.90	-546.39	795.31	316.61	428,104.90	639,831.61	
8,296.00	1.10	223.00	8,244.87	-548.50	576.79	-547.50	795.26	316.49	428,103.79	639,830.50	
8,391.00	0.80	83.80	8,339.87	-548.46	576.19	-547.46	794.80	316.46	428,103.19	639,830.54	
8,486.00	1.10	86.60	8,434.86	-546.89	576.32	-545.89	793.81	316.55	428,103.32	639,832.11	
8,581.00	1.10	102.00	8,529.84	-545.09	576.18	-544.09	792.47	316.64	428,103.18	639,833.91	
8,676.00	0.30	172.50	8,624.83	-544.17	575.74	-543.16	791.52	316.67	428,102.74	639,834.84	
8,771.00	1.10	250.40	8,719.83	-544.99	575.19	-543.99	791.69	316.60	428,102.19	639,834.01	
8,867.00	1.10	235.80	8,815.81	-546.62	574.36	-545.62	792.21	316.47	428,101.36	639,832.38	
8,962.00	0.80	228.20	8,910.79	-547.87	573.41	-546.87	792.38	316.36	428,100.41	639,831.13	
9,057.00	0.70	233.50	9,005.79	-548.83	572.62	-547.83	792.47	316.27	428,099.62	639,830.17	
9,152.00	0.90	250.90	9,100.78	-550.00	572.03	-549.00	792.86	316.18	428,099.03	639,829.00	
9,248.00	1.00	249.30	9,196.76	-551.49	571.49	-550.50	793.50	316.07	428,098.49	639,827.50	
9,355.00	0.90	238.70	9,303.75	-553.08	570.72	-552.09	794.06	315.95	428,097.72	639,825.91	
9,451.00	1.70	76.40	9,399.74	-552.34	570.67	-551.35	793.50	315.99	428,097.67	639,826.65	
9,483.00	3.30	79.10	9,431.71	-550.98	570.95	-549.98	792.76	316.07	428,097.95	639,828.02	
9,546.00	7.80	66.80	9,494.40	-545.27	572.98	-544.27	790.28	316.47	428,099.98	639,833.73	
9,578.00	12.80	66.10	9,525.87	-540.03	575.27	-539.03	788.35	316.86	428,102.27	639,838.97	
9,610.00	18.10	66.80	9,556.70	-532.22	578.67	-531.21	785.52	317.45	428,105.67	639,846.79	
9,641.00	22.80	72.50	9,585.75	-522.07	582.38	-521.05	781.45	318.18	428,109.38	639,856.95	
9,705.00	31.60	79.20	9,642.63	-493.72	589.26	-492.69	768.10	320.10	428,116.26	639,885.31	
9,737.00	36.00	83.40	9,669.21	-476.14	591.92	-475.10	759.00	321.25	428,118.92	639,902.90	



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Wellbore: OH
Design: MWD

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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)
9,810.00	48.20	87.80	9,723.29	-427.45	595.44	-426.41	732.37	324.39	428,122.44	639,951.59
9,898.00	60.80	86.40	9,774.29	-356.05	599.13	-355.01	696.41	329.35	428,126.13	640,022.99
9,929.00	63.70	86.50	9,788.72	-328.68	600.82	-327.63	684.35	331.40	428,127.82	640,050.37
9,961.00	66.90	86.30	9,802.09	-299.67	602.65	-298.62	672.58	333.64	428,129.65	640,079.38
10,024.00	74.20	87.40	9,823.06	-240.40	605.90	-239.34	651.46	338.44	428,132.90	640,138.66
10,056.00	78.00	89.60	9,830.74	-209.36	606.71	-208.30	641.47	341.05	428,133.71	640,169.70
10,152.00	88.80	95.20	9,841.77	-114.25	602.67	-113.20	613.21	349.36	428,129.67	640,264.80
10,247.00	89.60	95.80	9,843.10	-19.68	593.57	-18.65	593.86	358.20	428,120.57	640,359.35
10,342.00	87.10	94.30	9,845.83	74.91	585.21	75.93	590.11	7.39	428,112.21	640,453.93
10,439.00	86.50	94.00	9,851.25	171.52	578.20	172.53	603.39	16.61	428,105.20	640,550.53
10,536.00	86.50	91.50	9,857.17	268.23	573.55	269.23	633.60	25.15	428,100.55	640,647.23
10,633.00	86.60	89.60	9,863.01	365.04	572.62	366.04	679.62	32.59	428,099.62	640,744.04
10,728.00	90.10	88.40	9,865.74	459.97	574.28	460.97	736.41	38.75	428,101.28	640,838.97
10,823.00	90.60	88.00	9,865.16	554.92	577.27	555.92	801.43	43.92	428,104.27	640,933.92
10,919.00	87.80	87.30	9,866.50	650.81	581.20	651.82	873.31	48.28	428,108.20	641,029.82
11,014.00	91.70	90.10	9,866.92	745.75	583.36	746.77	947.61	52.00	428,110.36	641,124.77
11,110.00	92.10	90.40	9,863.73	841.70	582.94	842.72	1,024.69	55.33	428,109.94	641,220.72
11,205.00	88.30	89.70	9,863.40	936.68	582.85	937.70	1,104.08	58.14	428,109.85	641,315.70
11,301.00	86.60	88.70	9,867.67	1,032.57	584.19	1,033.59	1,187.26	60.52	428,111.19	641,411.59
11,396.00	87.00	88.50	9,872.97	1,127.39	586.51	1,128.41	1,271.73	62.54	428,113.51	641,506.41
11,491.00	86.90	88.60	9,878.03	1,222.22	588.91	1,223.25	1,357.63	64.29	428,115.91	641,601.25
11,586.00	91.70	87.90	9,879.19	1,317.13	591.81	1,318.17	1,444.92	65.82	428,118.81	641,696.17
11,681.00	92.30	87.40	9,875.87	1,411.99	595.70	1,413.03	1,533.47	67.14	428,122.70	641,791.03
11,776.00	90.60	89.50	9,873.47	1,506.91	598.27	1,507.96	1,622.30	68.36	428,125.27	641,885.96
11,871.00	91.20	89.20	9,871.98	1,601.89	599.35	1,602.94	1,711.32	69.50	428,126.35	641,980.94
11,965.00	89.20	90.40	9,871.65	1,695.88	599.68	1,696.93	1,799.77	70.54	428,126.68	642,074.93
12,060.00	87.40	91.20	9,874.47	1,790.83	598.35	1,791.87	1,889.14	71.53	428,125.35	642,169.87



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD 83)
Site: Garrett Fed Com.
Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 202H
TVD Reference: Well @ 2949.50usft
MD Reference: Well @ 2949.50usft
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)
12,156.00	87.20	90.30	90.30	9,878.99	1,886.71	597.10	1,887.76	1,979.94	72.45	428,124.10	642,265.76
12,251.00	91.60	90.30	90.30	9,879.98	1,981.68	596.60	1,982.73	2,070.54	73.25	428,123.60	642,360.73
12,347.00	87.30	89.00	89.00	9,880.91	2,077.65	597.19	2,078.70	2,162.78	73.97	428,124.19	642,456.70
12,442.00	89.50	89.40	89.40	9,883.56	2,172.60	598.51	2,173.64	2,254.54	74.61	428,125.51	642,551.64
12,537.00	89.40	90.80	90.80	9,884.47	2,267.59	598.35	2,268.64	2,346.22	75.22	428,125.35	642,646.64
12,633.00	88.90	92.20	92.20	9,885.89	2,363.55	595.83	2,364.59	2,438.51	75.86	428,122.83	642,742.59
12,728.00	89.10	94.40	94.40	9,887.55	2,458.38	590.37	2,459.41	2,529.28	76.50	428,117.37	642,837.41
12,823.00	87.60	95.30	95.30	9,890.29	2,553.01	582.34	2,554.03	2,619.58	77.16	428,109.34	642,932.03
12,917.00	89.30	94.40	94.40	9,892.83	2,646.65	574.39	2,647.66	2,709.25	77.76	428,101.39	643,025.66
13,013.00	88.30	93.40	93.40	9,894.84	2,742.41	567.87	2,743.41	2,801.57	78.31	428,094.87	643,121.41
13,108.00	89.70	93.70	93.70	9,896.50	2,837.23	561.98	2,838.21	2,893.31	78.80	428,088.98	643,216.21
13,205.00	88.80	92.90	92.90	9,897.77	2,934.06	556.40	2,935.04	2,987.31	79.27	428,083.40	643,313.04
13,299.00	87.10	91.40	91.40	9,901.13	3,027.94	552.88	3,028.91	3,078.95	79.66	428,079.88	643,406.91
13,394.00	85.20	89.10	89.10	9,907.51	3,122.71	552.46	3,123.68	3,172.16	79.97	428,079.46	643,501.68
13,490.00	84.30	89.40	89.40	9,916.30	3,218.30	553.71	3,219.27	3,266.54	80.24	428,080.71	643,597.27
13,586.00	84.70	88.70	88.70	9,925.50	3,313.84	555.30	3,314.81	3,361.00	80.49	428,082.30	643,692.81
13,681.00	86.90	89.30	89.30	9,932.45	3,408.56	556.95	3,409.54	3,454.73	80.72	428,083.95	643,787.54
13,776.00	89.60	89.30	89.30	9,935.35	3,503.50	558.11	3,504.48	3,548.64	80.95	428,085.11	643,882.48
13,871.00	89.70	89.20	89.20	9,935.93	3,598.49	559.35	3,599.47	3,642.67	81.17	428,086.35	643,977.47
13,967.00	89.30	89.00	89.00	9,936.77	3,694.47	560.86	3,695.45	3,737.77	81.37	428,087.86	644,073.45
14,064.00	88.20	87.70	87.70	9,938.89	3,791.40	563.65	3,792.38	3,834.04	81.55	428,090.65	644,170.38
14,158.00	90.40	87.90	87.90	9,940.04	3,885.31	567.26	3,886.30	3,927.48	81.70	428,094.26	644,264.30
14,252.00	90.30	88.60	88.60	9,939.46	3,979.26	570.13	3,980.26	4,020.88	81.85	428,097.13	644,358.26
14,347.00	88.20	86.80	86.80	9,940.71	4,074.15	573.94	4,075.16	4,115.38	81.98	428,100.94	644,453.16
14,442.00	90.10	87.80	87.80	9,942.12	4,169.03	578.42	4,170.04	4,209.97	82.10	428,105.42	644,548.04
14,538.00	90.00	87.30	87.30	9,942.03	4,264.93	582.52	4,265.95	4,305.54	82.22	428,109.52	644,643.95



ProDirectional Survey Report



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Well: No. 202H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 202H
TVD Reference: Well @ 2949.50usft
MD Reference: Well @ 2949.50usft
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)
14,634.00	89.70	87.30	9,942.28	4,360.81	587.04	4,361.85	4,401.17	82.33	428,114.04	644,739.85
Last Survey: 14634' MD										
14,716.00	89.70	87.30	9,942.71	4,442.72	590.91	4,443.75	4,482.87	82.43	428,117.91	644,821.75
PTB: 14716' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
154.00	153.97	2.53	0.36	Pro MWD First Survey: 154' MD
14,634.00	9,942.28	587.04	4,361.85	Last Survey: 14634' MD
14,716.00	9,942.71	590.91	4,443.75	PTB: 14716' MD