



Irvin Wall State Com No. 113H

Lea County, NM

30-025-45429

April 16, 2019

Job No. LNM5201619

ORIGINAL

Certified Report



April 16, 2019



Operator Name: Matador Resources
Well Name: Irvin Wall State Com No. 113H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 810
Job Number: LNM5201619

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:

<u>Surveyor</u>	<u>Surveyed Depths</u>	<u>Projection to Bit</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
ProDirectional	157' MD – 14,806' MD	14,868' MD	02/21/19 – 03/24/19	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

**Lea County, NM
Irvin Wall State Com
No. 113H
OH**

Survey: ProDirectional

Survey Report

16 April, 2019





ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Irvin Wall State Com
Well: No. 113H
Wellbore: OH
Design: MWD-157'-14806', PTB: 14868'

Local Co-ordinate Reference: Well No. 113H
TVD Reference: Well @ 3480.50usft
MD Reference: Well @ 3480.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project	Lea County, NM (NAD83)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Irvin Wall State Com		
Site Position:		Northing:	457,652.00 usft
From:	Map	Easting:	834,901.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.254591
		Longitude:	-103.383703
		Grid Convergence:	0.51 °

Well	No. 113H					
Well Position	+N/-S	0.00 usft	Northing:	457,652.00 usft	Latitude:	32.254592
	+E/-W	0.00 usft	Easting:	834,871.00 usft	Longitude:	-103.383800
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,452.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	2/20/2019	6.67	59.97	47,983.90

Design	MWD-157'-14806', PTB: 14868'				
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	359.44	

Survey Program	Date	4/16/2019		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
157.00	14,868.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



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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	457,652.00	834,871.00
157.00	0.30	355.80	157.00	0.41	0.41	-0.03	0.41	355.80	457,652.41	834,870.97
Pro MWD First Survey: 157' MD										
249.00	0.30	338.00	249.00	0.87	0.87	-0.14	0.88	351.02	457,652.87	834,870.86
341.00	1.00	325.10	340.99	1.76	1.76	-0.69	1.89	338.61	457,653.76	834,870.31
433.00	1.40	322.50	432.97	3.32	3.31	-1.83	3.78	331.01	457,655.31	834,869.17
524.00	1.70	318.00	523.94	5.22	5.19	-3.41	6.21	326.69	457,657.19	834,867.59
616.00	1.80	294.70	615.90	6.86	6.81	-5.64	8.84	320.38	457,658.81	834,865.36
711.00	2.70	278.90	710.82	7.87	7.78	-9.20	12.05	310.20	457,659.78	834,861.80
807.00	3.20	266.20	806.70	8.09	7.95	-14.11	16.20	299.40	457,659.95	834,856.89
902.00	4.30	257.50	901.49	7.20	7.00	-20.23	21.41	289.09	457,659.00	834,850.77
993.00	6.00	256.60	992.12	5.44	5.16	-28.19	28.66	280.38	457,657.16	834,842.81
1,088.00	6.90	256.10	1,086.52	3.02	2.64	-38.56	38.65	273.92	457,654.64	834,832.44
1,184.00	6.60	256.60	1,181.85	0.46	-0.02	-49.53	49.53	269.97	457,651.98	834,821.47
1,279.00	5.90	246.90	1,276.29	-2.62	-3.20	-59.33	59.41	266.91	457,648.80	834,811.67
1,375.00	6.00	238.70	1,371.78	-7.08	-7.75	-68.15	68.59	263.52	457,644.25	834,802.85
1,471.00	5.80	241.50	1,467.27	-11.92	-12.67	-76.70	77.74	260.62	457,639.33	834,794.30
1,566.00	5.60	240.80	1,561.80	-16.39	-17.22	-84.97	86.70	258.54	457,634.78	834,786.03
1,661.00	5.40	240.70	1,656.36	-20.76	-21.67	-92.91	95.41	256.87	457,630.33	834,778.09
1,757.00	5.40	244.20	1,751.93	-24.86	-25.84	-100.92	104.18	255.64	457,626.16	834,770.08
1,852.00	4.90	248.40	1,846.55	-28.22	-29.28	-108.72	112.59	254.92	457,622.72	834,762.28
1,948.00	4.60	245.80	1,942.22	-31.24	-32.37	-116.04	120.47	254.41	457,619.63	834,754.96
2,043.00	4.30	246.00	2,036.93	-34.18	-35.38	-122.77	127.76	253.92	457,616.62	834,748.23
2,139.00	3.80	246.00	2,132.69	-36.88	-38.14	-128.96	134.48	253.52	457,613.86	834,742.04
2,234.00	3.50	248.50	2,227.50	-39.17	-40.48	-134.54	140.49	253.25	457,611.52	834,736.46
2,330.00	3.00	248.40	2,323.35	-41.11	-42.48	-139.60	145.92	253.07	457,609.52	834,731.40
2,425.00	3.60	237.80	2,418.19	-43.57	-44.99	-144.43	151.28	252.70	457,607.01	834,726.57



ProDirectional Survey Report



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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)
2,521.00	4.40	238.20	2,513.96	-47.06	-48.53	-150.11	157.76	252.08	457,603.47	834,720.89
2,616.00	3.70	239.30	2,608.72	-50.49	-52.02	-155.85	164.30	251.54	457,599.98	834,715.15
2,712.00	3.10	238.30	2,704.55	-53.39	-54.96	-160.72	169.86	251.12	457,597.04	834,710.28
2,807.00	3.00	234.00	2,799.41	-56.16	-57.77	-164.91	174.74	250.69	457,594.23	834,706.09
2,902.00	3.90	234.30	2,894.24	-59.46	-61.12	-169.55	180.23	250.18	457,590.88	834,701.45
2,998.00	3.30	228.70	2,990.05	-63.14	-64.85	-174.28	185.95	249.59	457,587.15	834,696.72
3,093.00	3.80	233.30	3,084.87	-66.78	-68.54	-178.86	191.54	249.03	457,583.46	834,692.14
3,189.00	4.00	233.10	3,180.65	-70.64	-72.45	-184.08	197.83	248.52	457,579.55	834,686.92
3,283.00	3.30	224.60	3,274.46	-74.49	-76.34	-188.60	203.47	247.96	457,575.66	834,682.40
3,379.00	2.90	231.70	3,370.32	-77.93	-79.81	-192.45	208.34	247.47	457,572.19	834,678.55
3,475.00	2.70	216.00	3,466.20	-81.23	-83.15	-195.69	212.62	246.98	457,568.85	834,675.31
3,570.00	2.40	195.60	3,561.11	-84.94	-86.87	-197.54	215.80	246.26	457,565.13	834,673.46
3,666.00	3.20	217.70	3,657.00	-88.97	-90.93	-199.71	219.44	245.52	457,561.07	834,671.29
3,762.00	3.40	229.00	3,752.84	-92.93	-94.92	-203.50	224.55	244.99	457,557.08	834,667.50
3,857.00	4.80	243.60	3,847.60	-96.49	-98.53	-209.19	231.23	244.78	457,553.47	834,661.81
3,953.00	6.20	248.50	3,943.15	-100.09	-102.22	-217.61	240.42	244.84	457,549.78	834,653.39
4,048.00	4.90	249.00	4,037.71	-103.34	-105.55	-226.17	249.59	244.98	457,546.45	834,644.83
4,144.00	4.50	248.70	4,133.38	-106.10	-108.39	-233.51	257.44	245.10	457,543.61	834,637.49
4,239.00	4.00	249.00	4,228.12	-108.58	-110.93	-240.07	264.46	245.20	457,541.07	834,630.93
4,335.00	3.00	252.80	4,323.94	-110.47	-112.88	-245.60	270.30	245.32	457,539.12	834,625.40
4,430.00	2.20	252.60	4,418.84	-111.71	-114.16	-249.71	274.57	245.43	457,537.84	834,621.29
4,526.00	2.00	252.80	4,514.78	-112.72	-115.20	-253.07	278.06	245.52	457,536.80	834,617.93
4,621.00	1.60	250.10	4,609.73	-113.64	-116.14	-255.90	281.03	245.59	457,535.86	834,615.10
4,717.00	1.40	249.60	4,705.70	-114.48	-117.01	-258.26	283.53	245.63	457,534.99	834,612.74
4,812.00	0.80	240.80	4,800.68	-115.19	-117.74	-259.93	285.35	245.63	457,534.26	834,611.07
4,908.00	0.50	253.10	4,896.67	-115.63	-118.19	-260.92	286.43	245.63	457,533.81	834,610.08
5,003.00	0.40	224.50	4,991.67	-115.98	-118.54	-261.54	287.15	245.62	457,533.46	834,609.46



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5,099.00	0.40	234.20	5,087.67	-116.41	-118.98	-262.05	287.80	245.58	457,533.02	834,608.95
5,194.00	0.30	176.30	5,182.67	-116.85	-119.42	-262.30	288.21	245.52	457,532.58	834,608.70
5,254.00	0.40	217.40	5,242.67	-117.17	-119.74	-262.42	288.45	245.47	457,532.26	834,608.58
5,373.00	0.10	5.70	5,361.66	-117.40	-119.97	-262.66	288.76	245.45	457,532.03	834,608.34
5,469.00	1.50	235.00	5,457.65	-118.02	-120.61	-263.68	289.96	245.42	457,531.39	834,607.32
5,564.00	5.10	248.30	5,552.48	-120.25	-122.88	-268.63	295.40	245.42	457,529.12	834,602.37
5,659.00	5.70	246.70	5,647.06	-123.60	-126.31	-276.88	304.33	245.48	457,525.69	834,594.12
5,755.00	5.40	245.80	5,742.61	-127.25	-130.05	-285.38	313.62	245.50	457,521.95	834,585.62
5,850.00	5.50	244.70	5,837.18	-130.95	-133.83	-293.58	322.64	245.49	457,518.17	834,577.42
5,946.00	5.90	242.50	5,932.71	-135.11	-138.07	-302.11	332.17	245.44	457,513.93	834,568.89
6,042.00	6.50	239.90	6,028.14	-140.03	-143.07	-311.19	342.50	245.31	457,508.93	834,559.81
6,137.00	5.10	239.40	6,122.66	-144.79	-147.92	-319.48	352.06	245.16	457,504.08	834,551.52
6,233.00	4.80	240.00	6,218.30	-148.90	-152.10	-326.63	360.31	245.03	457,499.90	834,544.37
6,328.00	4.80	241.30	6,312.96	-152.73	-156.00	-333.56	368.23	244.94	457,496.00	834,537.44
6,424.00	5.60	244.30	6,408.57	-156.61	-159.96	-341.30	376.92	244.89	457,492.04	834,529.70
6,519.00	4.80	238.50	6,503.18	-160.63	-164.04	-348.87	385.51	244.82	457,487.96	834,522.13
6,615.00	4.90	238.80	6,598.83	-164.78	-168.27	-355.80	393.58	244.69	457,483.73	834,515.20
6,711.00	4.90	237.80	6,694.48	-169.02	-172.57	-362.77	401.73	244.56	457,479.43	834,508.23
6,806.00	5.10	244.00	6,789.12	-172.96	-176.59	-370.00	409.98	244.49	457,475.41	834,501.00
6,902.00	4.90	245.10	6,884.76	-176.49	-180.18	-377.56	418.35	244.49	457,471.82	834,493.44
6,997.00	4.80	245.10	6,979.42	-179.80	-183.57	-384.84	426.38	244.50	457,468.43	834,486.16
7,093.00	6.00	248.00	7,074.99	-183.29	-187.14	-393.14	435.40	244.55	457,464.86	834,477.86
7,189.00	5.50	246.40	7,170.51	-186.92	-190.86	-402.00	445.01	244.60	457,461.14	834,469.00
7,284.00	4.80	241.80	7,265.12	-190.55	-194.56	-409.68	453.53	244.60	457,457.44	834,461.32
7,379.00	4.50	239.60	7,359.81	-194.24	-198.32	-416.40	461.21	244.53	457,453.68	834,454.60
7,475.00	4.60	238.00	7,455.51	-198.13	-202.27	-422.91	468.79	244.44	457,449.73	834,448.09
7,570.00	4.40	235.80	7,550.21	-202.13	-206.34	-429.15	476.18	244.32	457,445.66	834,441.85



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7,666.00	4.00	232.30	7,645.96	-206.19	-210.45	-434.85	483.10	244.17	457,441.55	834,436.15
7,761.00	3.90	228.50	7,740.73	-210.31	-214.62	-439.89	489.46	243.99	457,437.38	834,431.11
7,856.00	3.70	227.30	7,835.52	-214.49	-218.84	-444.56	495.51	243.79	457,433.16	834,426.44
7,952.00	3.40	226.30	7,931.34	-218.51	-222.91	-448.90	501.20	243.59	457,429.09	834,422.10
8,047.00	3.90	227.00	8,026.14	-222.62	-227.06	-453.30	506.98	243.39	457,424.94	834,417.70
8,143.00	5.10	243.10	8,121.85	-226.71	-231.21	-459.49	514.39	243.29	457,420.79	834,411.51
8,238.00	5.20	248.50	8,216.47	-230.13	-234.70	-467.26	522.90	243.33	457,417.30	834,403.74
8,334.00	4.90	249.40	8,312.09	-233.08	-237.74	-475.15	531.31	243.42	457,414.26	834,395.85
8,429.00	5.00	250.90	8,406.74	-235.79	-240.52	-482.86	539.45	243.52	457,411.48	834,388.14
8,525.00	4.60	248.70	8,502.40	-238.48	-243.29	-490.40	547.43	243.61	457,408.71	834,380.60
8,620.00	1.90	231.60	8,597.24	-240.80	-245.65	-495.18	552.77	243.61	457,406.35	834,375.82
8,716.00	0.90	348.00	8,693.23	-241.04	-245.90	-496.59	554.14	243.66	457,406.10	834,374.41
8,811.00	0.90	1.80	8,788.21	-239.56	-244.43	-496.72	553.60	243.80	457,407.57	834,374.28
8,906.00	0.50	336.30	8,883.21	-238.43	-243.30	-496.86	553.23	243.91	457,408.70	834,374.14
9,001.00	0.60	276.80	8,978.20	-237.99	-242.86	-497.52	553.63	243.98	457,409.14	834,373.48
9,097.00	0.80	250.70	9,074.20	-238.14	-243.03	-498.65	554.72	244.02	457,408.97	834,372.35
9,192.00	1.40	250.20	9,169.18	-238.74	-243.64	-500.37	556.53	244.04	457,408.36	834,370.63
9,288.00	2.10	258.70	9,265.13	-239.45	-244.38	-503.20	559.40	244.10	457,407.62	834,367.80
9,319.00	2.40	258.00	9,296.11	-239.68	-244.63	-504.39	560.58	244.13	457,407.37	834,366.61
9,391.00	2.60	261.50	9,368.04	-240.21	-245.18	-507.48	563.60	244.21	457,406.82	834,363.52
9,487.00	14.20	340.10	9,462.99	-229.35	-234.38	-513.67	564.62	245.47	457,417.62	834,357.33
9,519.00	19.70	343.00	9,493.59	-220.46	-225.52	-516.59	563.67	246.42	457,426.48	834,354.41
9,551.00	24.50	346.60	9,523.23	-208.81	-213.90	-519.70	562.00	247.63	457,438.10	834,351.30
9,582.00	26.50	349.40	9,551.21	-195.73	-200.85	-522.47	559.74	248.97	457,451.15	834,348.53
9,678.00	29.10	357.00	9,636.15	-151.30	-156.46	-527.63	550.34	253.48	457,495.54	834,343.37
9,773.00	37.80	357.50	9,715.34	-99.02	-104.21	-530.11	540.26	258.88	457,547.79	834,340.89
9,869.00	44.30	356.80	9,787.70	-36.06	-41.28	-533.27	534.87	265.57	457,610.72	834,337.73



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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)
9,964.00	47.80	356.00	9,853.62	32.22	26.97	-537.58	538.26	272.87	457,678.97	834,333.42
10,059.00	58.40	354.70	9,910.58	107.88	102.57	-543.79	553.38	280.68	457,754.57	834,327.21
10,155.00	72.00	355.00	9,950.76	194.55	189.17	-551.58	583.12	288.93	457,841.17	834,319.42
10,250.00	89.70	354.10	9,965.80	287.62	282.16	-560.47	627.49	296.72	457,934.16	834,310.53
10,262.00	92.00	353.90	9,965.62	299.57	294.09	-561.73	634.06	297.63	457,946.09	834,309.27
10,358.00	95.80	355.40	9,959.10	394.99	389.43	-570.66	690.87	304.31	458,041.43	834,300.34
10,453.00	94.10	356.80	9,950.90	489.47	483.85	-577.09	753.09	309.98	458,135.85	834,293.91
10,548.00	92.30	357.80	9,945.60	584.25	578.59	-581.56	820.36	314.85	458,230.59	834,289.44
10,644.00	90.20	359.20	9,943.50	680.21	674.53	-584.07	892.26	319.11	458,326.53	834,286.93
10,740.00	88.80	0.40	9,944.34	776.20	770.52	-584.41	967.08	322.82	458,422.52	834,286.59
10,835.00	89.80	0.80	9,945.50	871.17	865.51	-583.41	1,043.78	326.02	458,517.51	834,287.59
10,931.00	88.00	2.60	9,947.34	967.07	961.44	-580.57	1,123.13	328.87	458,613.44	834,290.43
11,026.00	88.30	2.60	9,950.41	1,061.87	1,056.29	-576.26	1,203.26	331.39	458,708.29	834,294.74
11,121.00	88.90	2.80	9,952.73	1,156.69	1,151.16	-571.78	1,285.34	333.59	458,803.16	834,299.22
11,217.00	90.00	3.10	9,953.65	1,252.51	1,247.03	-566.84	1,369.81	335.56	458,899.03	834,304.16
11,312.00	88.60	3.20	9,954.81	1,347.30	1,341.87	-561.62	1,454.66	337.29	458,993.87	834,309.38
11,408.00	88.80	3.00	9,956.99	1,443.08	1,437.71	-556.43	1,541.63	338.84	459,089.71	834,314.57
11,503.00	89.30	2.80	9,958.57	1,537.89	1,532.57	-551.63	1,628.82	340.20	459,184.57	834,319.37
11,598.00	89.90	3.20	9,959.23	1,632.70	1,627.44	-546.66	1,716.80	341.43	459,279.44	834,324.34
11,694.00	91.10	3.60	9,958.39	1,728.47	1,723.26	-540.96	1,806.18	342.57	459,375.26	834,330.04
11,789.00	89.20	2.30	9,958.14	1,823.28	1,818.13	-536.07	1,895.52	343.57	459,470.13	834,334.93
11,885.00	89.60	2.60	9,959.15	1,919.15	1,914.04	-531.97	1,986.59	344.47	459,566.04	834,339.03
11,980.00	88.30	0.90	9,960.89	2,014.05	2,008.97	-529.07	2,077.47	345.25	459,660.97	834,341.93
12,074.00	89.10	1.10	9,963.02	2,107.99	2,102.93	-527.43	2,168.07	345.92	459,754.93	834,343.57
12,170.00	90.00	0.60	9,963.78	2,203.95	2,198.92	-526.01	2,260.96	346.55	459,850.92	834,344.99
12,265.00	90.90	0.80	9,963.03	2,298.93	2,293.91	-524.85	2,353.18	347.11	459,945.91	834,346.15
12,361.00	90.20	359.40	9,962.11	2,394.91	2,389.90	-524.68	2,446.82	347.62	460,041.90	834,346.32



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Irvin Wall State Com
Well: No. 113H
Wellbore: OH
Design: MWD-157'-14806', PTB: 14868'

Local Co-ordinate Reference: Well No. 113H
TVD Reference: Well @ 3480.50usft
MD Reference: Well @ 3480.50usft
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)
12,456.00	89.60	359.40	9,962.27	2,489.91	2,484.89	-525.67	2,539.89	348.06	460,136.89	834,345.33
12,552.00	90.20	359.40	9,962.44	2,585.91	2,580.89	-526.68	2,634.08	348.47	460,232.89	834,344.32
12,647.00	91.20	359.70	9,961.28	2,680.90	2,675.88	-527.42	2,727.36	348.85	460,327.88	834,343.58
12,743.00	88.60	359.50	9,961.45	2,776.90	2,771.87	-528.09	2,821.72	349.21	460,423.87	834,342.91
12,838.00	89.20	359.70	9,963.27	2,871.88	2,866.85	-528.76	2,915.20	349.55	460,518.85	834,342.24
12,934.00	89.50	359.70	9,964.36	2,967.87	2,962.84	-529.26	3,009.74	349.87	460,614.84	834,341.74
13,029.00	90.00	359.80	9,964.78	3,062.87	3,057.84	-529.67	3,103.37	350.17	460,709.84	834,341.33
13,124.00	90.60	0.20	9,964.28	3,157.86	3,152.83	-529.67	3,197.02	350.46	460,804.83	834,341.33
13,220.00	91.40	0.20	9,962.60	3,253.84	3,248.82	-529.34	3,291.66	350.75	460,900.82	834,341.66
13,316.00	88.80	359.90	9,962.44	3,349.82	3,344.81	-529.26	3,386.42	351.01	460,996.81	834,341.74
13,411.00	89.10	0.00	9,964.18	3,444.80	3,439.79	-529.34	3,480.28	351.25	461,091.79	834,341.66
13,507.00	89.80	359.90	9,965.10	3,540.79	3,535.79	-529.42	3,575.20	351.48	461,187.79	834,341.58
13,602.00	90.30	359.90	9,965.01	3,635.79	3,630.79	-529.59	3,669.21	351.70	461,282.79	834,341.41
13,698.00	91.10	359.70	9,963.84	3,731.78	3,726.78	-529.92	3,764.27	351.91	461,378.78	834,341.08
13,794.00	89.40	0.00	9,963.42	3,827.77	3,822.77	-530.17	3,859.36	352.10	461,474.77	834,340.83
13,889.00	89.40	359.80	9,964.42	3,922.77	3,917.77	-530.34	3,953.50	352.29	461,569.77	834,340.66
13,984.00	90.20	359.80	9,964.75	4,017.76	4,012.77	-530.67	4,047.70	352.47	461,664.77	834,340.33
14,080.00	91.20	0.00	9,963.58	4,113.75	4,108.76	-530.84	4,142.91	352.64	461,760.76	834,340.16
14,176.00	92.30	0.30	9,960.65	4,209.70	4,204.71	-530.59	4,238.06	352.81	461,856.71	834,340.41
14,271.00	90.00	0.60	9,958.74	4,304.66	4,299.68	-529.84	4,332.21	352.97	461,951.68	834,341.16
14,366.00	89.30	0.60	9,959.32	4,399.63	4,394.68	-528.85	4,426.38	353.14	462,046.68	834,342.15
14,462.00	90.10	0.80	9,959.82	4,495.61	4,490.67	-527.68	4,521.56	353.30	462,142.67	834,343.32
14,557.00	89.60	0.60	9,960.07	4,590.59	4,585.66	-526.51	4,615.79	353.45	462,237.66	834,344.49
14,653.00	90.20	1.00	9,960.24	4,686.56	4,681.65	-525.17	4,711.01	353.60	462,333.65	834,345.83
14,748.00	91.10	0.80	9,959.16	4,781.52	4,776.63	-523.68	4,805.25	353.74	462,428.63	834,347.32
14,806.00	92.00	1.10	9,957.59	4,839.48	4,834.60	-522.72	4,862.78	353.83	462,486.60	834,348.28

Last Survey: 14806' MD



ProDirectional Survey Report



Company: Matador Resources
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Wellbore: OH
Design: MWD-157'-14806', PTB: 14868'

Local Co-ordinate Reference: Well No. 113H
TVD Reference: Well @ 3480.50usft
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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)
14,868.00	92.00	1.10	9,955.43	4,901.41	4,896.55	-521.53	4,924.25	353.92	462,548.55	834,349.47
PTB: 14868' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
157.00	157.00	0.41	-0.03	Pro MWD First Survey: 157' MD
14,806.00	9,957.59	4,834.60	-522.72	Last Survey: 14806' MD
14,868.00	9,955.43	4,896.55	-521.53	PTB: 14868' MD