



HOBBS OCD
JUL 31 2019
RECEIVED

Airstrip 31-18S-35E RN State Com No. 124H

Lea County, NM

30-025-45437

April 16, 2019

Job No. LNM5200819

 **ORIGINAL**

Certified Report



April 16, 2019



Operator Name: Matador Resources
Well Name: Airstrip 31-18S-35E RN State Com No. 124H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5200819

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	190' MD – 15,082' MD	15,150' MD	02/16/19 – 03/28/19	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

Airstrip 31-18S-35E RN State Com

No. 124H

OH

Survey: ProDirectional

Survey Report

16 April, 2019





ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Airstrip 31-18S-35E RN State Com
Well: No. 124H
Wellbore: OH
Design: MWD-190'-15082', PTB: 15150'

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3958.50usft
MD Reference: Well @ 3958.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project Lea County, NM (NAD83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Airstrip 31-18S-35E RN State Com

Site Position:	Northing:	618,487.00 usft	Latitude:	32.697466
From: Map	Easting:	799,025.00 usft	Longitude:	-103.495661
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well No. 124H

Well Position	+N/-S	0.00 usft	Northing:	618,640.00 usft	Latitude:	32.697855
	+E/-W	0.00 usft	Easting:	800,456.00 usft	Longitude:	-103.491005
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,930.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/25/2019	6.52	60.63	48,104.00

Design MWD-190'-15082', PTB: 15150'

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	359.46

Survey Program Date 4/16/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
190.00	15,150.00	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	618,640.00	800,456.00
190.00	0.60	10.40	190.00	0.98	0.98	0.18	0.99	10.40	618,640.98	800,456.18
Pro MWD First Survey: 190' MD										
309.00	1.50	60.50	308.98	2.34	2.36	1.65	2.88	34.94	618,642.36	800,457.65
405.00	1.90	61.50	404.93	3.70	3.74	4.14	5.58	47.93	618,643.74	800,460.14
497.00	1.30	7.30	496.90	5.45	5.50	5.61	7.86	45.59	618,645.50	800,461.61
588.00	1.30	81.70	587.89	6.61	6.67	6.77	9.50	45.40	618,646.67	800,462.77
680.00	1.10	79.10	679.87	6.91	6.99	8.67	11.13	51.11	618,646.99	800,464.67
772.00	0.90	75.30	771.85	7.24	7.34	10.23	12.59	54.34	618,647.34	800,466.23
862.00	0.80	67.70	861.84	7.65	7.76	11.50	13.87	55.99	618,647.76	800,467.50
953.00	0.90	65.90	952.83	8.17	8.29	12.74	15.20	56.94	618,648.29	800,468.74
1,047.00	0.70	72.10	1,046.82	8.64	8.77	13.96	16.48	57.86	618,648.77	800,469.96
1,140.00	0.90	71.90	1,139.81	9.03	9.17	15.19	17.75	58.88	618,649.17	800,471.19
1,233.00	0.50	39.30	1,232.81	9.56	9.71	16.14	18.84	58.97	618,649.71	800,472.14
1,327.00	0.10	88.00	1,326.80	9.88	10.03	16.48	19.30	58.68	618,650.03	800,472.48
1,420.00	0.60	85.80	1,419.80	9.91	10.07	17.05	19.80	59.44	618,650.07	800,473.05
1,514.00	0.50	92.00	1,513.80	9.92	10.09	17.95	20.59	60.66	618,650.09	800,473.95
1,608.00	0.20	298.50	1,607.80	9.98	10.16	18.22	20.86	60.86	618,650.16	800,474.22
1,701.00	0.40	29.30	1,700.80	10.34	10.52	18.23	21.05	60.03	618,650.52	800,474.23
1,794.00	0.30	300.50	1,793.80	10.75	10.92	18.18	21.21	59.01	618,650.92	800,474.18
1,826.00	0.20	150.60	1,825.80	10.75	10.92	18.14	21.17	58.96	618,650.92	800,474.14
1,989.00	0.10	102.70	1,988.79	10.46	10.64	18.42	21.27	59.99	618,650.64	800,474.42
2,083.00	1.80	86.10	2,082.78	10.53	10.72	19.97	22.67	61.77	618,650.72	800,475.97
2,176.00	4.20	88.00	2,175.64	10.70	10.94	24.83	27.13	66.23	618,650.94	800,480.83
2,269.00	6.50	88.80	2,268.23	10.85	11.17	33.50	35.31	71.56	618,651.17	800,489.50
2,362.00	8.50	88.60	2,360.43	11.02	11.45	45.63	47.05	75.92	618,651.45	800,501.63
2,455.00	9.10	91.40	2,452.34	10.87	11.43	59.86	60.94	79.19	618,651.43	800,515.86



ProDirectional Survey Report



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Well: No. 124H
Wellbore: OH
Design: MWD-190'-15082', PTB: 15150'

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TVD Reference: Well @ 3958.50usft
MD Reference: Well @ 3958.50usft
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)
2,549.00	9.80	93.90	2,545.06	10.00	10.71	75.27	76.03	81.90	618,650.71	800,531.27
2,642.00	10.20	94.60	2,636.65	8.65	9.51	91.37	91.87	84.06	618,649.51	800,547.37
2,736.00	10.60	94.80	2,729.10	7.10	8.12	108.29	108.59	85.71	618,648.12	800,564.29
2,829.00	10.30	98.40	2,820.56	5.01	6.19	125.04	125.19	87.17	618,646.19	800,581.04
2,923.00	10.20	102.00	2,913.06	1.90	3.23	141.49	141.53	88.69	618,643.23	800,597.49
3,017.00	9.10	107.10	3,005.73	-2.16	-0.69	156.74	156.74	90.25	618,639.31	800,612.74
3,110.00	8.90	110.20	3,097.59	-6.94	-5.33	170.52	170.60	91.79	618,634.67	800,626.52
3,204.00	9.50	117.60	3,190.38	-13.17	-11.44	184.22	184.57	93.55	618,628.56	800,640.22
3,297.00	10.10	124.50	3,282.03	-21.48	-19.61	197.74	198.71	95.66	618,620.39	800,653.74
3,391.00	9.30	127.50	3,374.68	-30.89	-28.91	210.56	212.53	97.82	618,611.09	800,666.56
3,484.00	8.50	129.20	3,466.56	-39.91	-37.82	221.85	225.05	99.68	618,602.18	800,677.85
3,578.00	8.10	128.10	3,559.58	-48.49	-46.30	232.44	237.01	101.27	618,593.70	800,688.44
3,671.00	7.60	128.80	3,651.71	-56.48	-54.20	242.39	248.38	102.60	618,585.80	800,698.39
3,765.00	7.40	130.80	3,744.90	-64.42	-62.05	251.82	259.35	103.84	618,577.95	800,707.82
3,858.00	7.20	130.90	3,837.15	-72.23	-69.78	260.76	269.93	104.98	618,570.22	800,716.76
3,935.00	7.10	131.30	3,913.55	-78.60	-76.08	267.98	278.57	105.85	618,563.92	800,723.98
4,041.00	7.10	130.80	4,018.74	-87.30	-84.68	277.86	290.48	106.95	618,555.32	800,733.86
4,135.00	7.00	131.70	4,112.03	-94.98	-92.29	286.53	301.03	107.85	618,547.71	800,742.53
4,228.00	6.60	129.60	4,204.37	-102.24	-99.46	294.88	311.20	108.64	618,540.54	800,750.88
4,322.00	6.40	128.30	4,297.77	-109.01	-106.15	303.16	321.20	109.30	618,533.85	800,759.16
4,415.00	6.00	126.60	4,390.23	-115.19	-112.26	311.13	330.76	109.84	618,527.74	800,767.13
4,508.00	6.20	137.70	4,482.70	-121.87	-118.88	318.41	339.88	110.47	618,521.12	800,774.41
4,601.00	6.20	140.20	4,575.16	-129.51	-126.45	325.00	348.74	111.26	618,513.55	800,781.00
4,695.00	5.80	137.50	4,668.64	-136.97	-133.85	331.46	357.47	111.99	618,506.15	800,787.46
4,788.00	5.50	137.10	4,761.19	-143.76	-140.58	337.67	365.76	112.60	618,499.42	800,793.67
4,882.00	5.10	135.40	4,854.79	-150.09	-146.86	343.67	373.73	113.14	618,493.14	800,799.67
4,975.00	4.80	136.60	4,947.44	-155.91	-152.63	349.25	381.14	113.61	618,487.37	800,805.25



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5,068.00	4.50	134.10	5,040.14	-161.33	-157.99	354.54	388.15	114.02	618,482.01	800,810.54
5,162.00	4.10	134.10	5,133.87	-166.28	-162.90	359.60	394.78	114.37	618,477.10	800,815.60
5,255.00	5.80	131.00	5,226.52	-171.73	-168.29	365.53	402.42	114.72	618,471.71	800,821.53
5,348.00	6.10	129.00	5,319.02	-177.99	-174.49	372.92	411.72	115.07	618,465.51	800,828.92
5,442.00	5.70	128.40	5,412.52	-184.11	-180.53	380.46	421.12	115.38	618,459.47	800,836.46
5,535.00	5.40	126.70	5,505.09	-189.66	-186.01	387.59	429.91	115.64	618,453.99	800,843.59
5,629.00	6.60	139.40	5,598.57	-196.47	-192.76	394.65	439.21	116.03	618,447.24	800,850.65
5,722.00	6.70	141.20	5,690.95	-204.82	-201.04	401.53	449.05	116.60	618,438.96	800,857.53
5,815.00	6.80	139.70	5,783.30	-213.31	-209.47	408.49	459.07	117.15	618,430.53	800,864.49
5,909.00	6.60	139.10	5,876.66	-221.71	-217.80	415.63	469.23	117.66	618,422.20	800,871.63
6,002.00	6.60	137.70	5,969.05	-229.77	-225.79	422.72	479.24	118.11	618,414.21	800,878.72
6,096.00	6.60	137.50	6,062.42	-237.81	-233.77	430.01	489.44	118.53	618,406.23	800,886.01
6,189.00	6.60	138.60	6,154.81	-245.83	-241.72	437.15	499.53	118.94	618,398.28	800,893.15
6,283.00	6.40	136.20	6,248.20	-253.73	-249.55	444.35	509.63	119.32	618,390.45	800,900.35
6,376.00	4.60	144.70	6,340.77	-260.57	-256.34	450.09	517.97	119.66	618,383.66	800,906.09
6,469.00	4.20	145.30	6,433.50	-266.45	-262.18	454.19	524.43	120.00	618,377.82	800,910.19
6,562.00	3.80	141.70	6,526.27	-271.71	-267.40	458.04	530.38	120.28	618,372.60	800,914.04
6,656.00	3.60	144.00	6,620.07	-276.57	-272.23	461.70	535.98	120.52	618,367.77	800,917.70
6,750.00	1.70	137.00	6,713.97	-280.00	-275.64	464.39	540.03	120.69	618,364.36	800,920.39
6,843.00	1.30	138.40	6,806.94	-281.82	-277.44	466.03	542.36	120.77	618,362.56	800,922.03
6,937.00	1.50	138.30	6,900.91	-283.55	-279.15	467.55	544.55	120.84	618,360.85	800,923.55
7,030.00	1.30	146.30	6,993.88	-285.35	-280.94	468.95	546.66	120.93	618,359.06	800,924.95
7,123.00	1.10	140.10	7,086.86	-286.92	-282.50	470.11	548.46	121.00	618,357.50	800,926.11
7,216.00	1.20	155.80	7,179.84	-288.50	-284.08	471.08	550.10	121.09	618,355.92	800,927.08
7,310.00	0.60	155.80	7,273.83	-289.86	-285.42	471.68	551.32	121.18	618,354.58	800,927.68
7,403.00	0.40	164.60	7,366.83	-290.62	-286.18	471.97	551.96	121.23	618,353.82	800,927.97
7,497.00	0.00	266.80	7,460.83	-290.93	-286.50	472.06	552.19	121.25	618,353.50	800,928.06



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7,590.00	0.10	96.70	7,553.83	-290.94	-286.51	472.14	552.27	121.25	618,353.49	800,928.14
7,683.00	0.10	334.10	7,646.83	-290.88	-286.44	472.18	552.27	121.24	618,353.56	800,928.18
7,777.00	0.40	338.10	7,740.83	-290.50	-286.06	472.03	551.94	121.22	618,353.94	800,928.03
7,870.00	0.50	344.40	7,833.82	-289.81	-285.37	471.80	551.39	121.17	618,354.63	800,927.80
7,964.00	0.90	336.20	7,927.82	-288.73	-284.30	471.39	550.48	121.09	618,355.70	800,927.39
8,057.00	1.30	323.00	8,020.80	-287.21	-282.79	470.46	548.91	121.01	618,357.21	800,926.46
8,151.00	1.00	316.10	8,114.78	-285.76	-281.35	469.25	547.13	120.95	618,358.65	800,925.25
8,244.00	1.30	320.90	8,207.76	-284.34	-279.94	468.02	545.35	120.89	618,360.06	800,924.02
8,337.00	1.30	311.70	8,300.74	-282.81	-278.42	466.57	543.33	120.83	618,361.58	800,922.57
8,431.00	1.50	320.90	8,394.71	-281.13	-276.76	464.99	541.12	120.76	618,363.24	800,920.99
8,524.00	1.30	312.00	8,487.68	-279.46	-275.11	463.44	538.95	120.69	618,364.89	800,919.44
8,617.00	0.90	66.60	8,580.67	-278.47	-274.11	463.33	538.34	120.61	618,365.89	800,919.33
8,711.00	1.30	93.80	8,674.65	-278.26	-273.89	465.07	539.73	120.49	618,366.11	800,921.07
8,804.00	1.00	86.30	8,767.64	-278.30	-273.91	466.93	541.34	120.40	618,366.09	800,922.93
8,898.00	1.00	83.80	8,861.62	-278.17	-273.77	468.57	542.68	120.30	618,366.23	800,924.57
8,992.00	0.70	104.10	8,955.61	-278.23	-273.82	469.94	543.89	120.23	618,366.18	800,925.94
9,085.00	0.40	99.30	9,048.61	-278.43	-274.01	470.81	544.74	120.20	618,365.99	800,926.81
9,178.00	0.60	97.40	9,141.60	-278.56	-274.12	471.61	545.49	120.17	618,365.88	800,927.61
9,273.00	0.70	109.20	9,236.60	-278.82	-274.38	472.65	546.52	120.14	618,365.62	800,928.65
9,366.00	0.50	133.90	9,329.59	-279.30	-274.85	473.48	547.47	120.13	618,365.15	800,929.48
9,460.00	0.60	135.60	9,423.59	-279.94	-275.48	474.12	548.35	120.16	618,364.52	800,930.12
9,553.00	0.50	122.90	9,516.58	-280.51	-276.05	474.80	549.22	120.17	618,363.95	800,930.80
9,646.00	0.60	137.50	9,609.58	-281.10	-276.63	475.47	550.09	120.19	618,363.37	800,931.47
9,688.00	0.70	151.20	9,651.58	-281.49	-277.02	475.75	550.52	120.21	618,362.98	800,931.75
9,782.00	8.40	7.60	9,745.26	-275.19	-270.70	476.93	548.40	119.58	618,369.30	800,932.93
9,875.00	23.10	356.10	9,834.54	-250.11	-245.63	476.59	536.16	117.27	618,394.37	800,932.59
9,968.00	32.70	0.70	9,916.64	-206.67	-202.20	475.65	516.85	113.03	618,437.80	800,931.65



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10,062.00	40.30	3.30	9,992.16	-150.87	-146.37	477.72	499.64	107.04	618,493.63	800,933.72
10,155.00	47.20	2.40	10,059.30	-86.71	-82.18	480.88	487.85	99.70	618,557.82	800,936.88
10,249.00	59.00	0.80	10,115.64	-11.73	-7.18	482.89	482.95	90.85	618,632.82	800,938.89
10,342.00	69.20	3.30	10,156.21	71.72	76.31	485.96	491.92	81.08	618,716.31	800,941.96
10,435.00	77.30	0.80	10,183.00	160.61	165.22	489.10	516.26	71.33	618,805.22	800,945.10
10,529.00	79.20	358.60	10,202.14	252.63	257.24	488.61	552.19	62.23	618,897.24	800,944.61
10,621.00	85.20	357.60	10,214.62	343.71	348.30	485.59	597.58	54.35	618,988.30	800,941.59
10,714.00	90.30	357.50	10,218.27	436.55	441.11	481.62	653.10	47.51	619,081.11	800,937.62
10,808.00	91.40	357.30	10,216.88	530.48	535.00	477.35	717.00	41.74	619,175.00	800,933.35
10,901.00	90.20	358.50	10,215.58	623.43	627.93	473.95	786.71	37.04	619,267.93	800,929.95
10,995.00	89.20	0.60	10,216.07	717.42	721.92	473.21	863.19	33.24	619,361.92	800,929.21
11,088.00	89.70	0.90	10,216.96	810.40	814.90	474.43	942.95	30.21	619,454.90	800,930.43
11,182.00	88.10	0.50	10,218.77	904.35	908.88	475.57	1,025.78	27.62	619,548.88	800,931.57
11,275.00	88.30	0.40	10,221.69	997.29	1,001.83	476.30	1,109.29	25.43	619,641.83	800,932.30
11,368.00	86.40	0.60	10,225.99	1,090.17	1,094.72	477.11	1,194.17	23.55	619,734.72	800,933.11
11,462.00	85.90	0.60	10,232.30	1,183.94	1,188.50	478.10	1,281.06	21.91	619,828.50	800,934.10
11,555.00	86.00	0.40	10,238.87	1,276.70	1,281.27	478.91	1,367.84	20.49	619,921.27	800,934.91
11,648.00	86.50	0.10	10,244.95	1,369.49	1,374.07	479.31	1,455.27	19.23	620,014.07	800,935.31
11,742.00	86.90	359.70	10,250.36	1,463.33	1,467.91	479.15	1,544.13	18.08	620,107.91	800,935.15
11,835.00	86.50	359.40	10,255.71	1,556.17	1,560.75	478.42	1,632.43	17.04	620,200.75	800,934.42
11,929.00	86.00	358.50	10,261.86	1,649.97	1,654.53	476.70	1,721.84	16.07	620,294.53	800,932.70
12,022.00	87.90	357.90	10,266.81	1,742.81	1,747.35	473.78	1,810.44	15.17	620,387.35	800,929.78
12,116.00	88.80	357.50	10,269.52	1,836.72	1,841.24	470.01	1,900.28	14.32	620,481.24	800,926.01
12,209.00	89.50	357.50	10,270.90	1,929.66	1,934.14	465.95	1,989.47	13.55	620,574.14	800,921.95
12,302.00	89.80	357.10	10,271.47	2,022.59	2,027.03	461.57	2,078.92	12.83	620,667.03	800,917.57
12,395.00	89.50	357.50	10,272.03	2,115.52	2,119.93	457.19	2,168.67	12.17	620,759.93	800,913.19
12,489.00	89.40	357.30	10,272.94	2,209.46	2,213.83	452.93	2,259.68	11.56	620,853.83	800,908.93



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Airstrip 31-18S-35E RN State Com
Well: No. 124H
Wellbore: OH
Design: MWD-190'-15082', PTB: 15150'

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3958.50usft
MD Reference: Well @ 3958.50usft
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)
12,582.00	89.40	357.30	10,273.91	2,302.39	2,306.72	448.55	2,349.92	11.00	620,946.72	800,904.55
12,676.00	88.80	357.50	10,275.39	2,396.31	2,400.61	444.28	2,441.37	10.49	621,040.61	800,900.28
12,769.00	88.80	357.40	10,277.33	2,489.24	2,493.50	440.15	2,532.04	10.01	621,133.50	800,896.15
12,863.00	89.10	357.50	10,279.06	2,583.16	2,587.39	435.97	2,623.86	9.56	621,227.39	800,891.97
12,956.00	89.50	358.10	10,280.19	2,676.12	2,680.31	432.40	2,714.96	9.16	621,320.31	800,888.40
13,050.00	89.80	358.30	10,280.77	2,770.09	2,774.26	429.44	2,807.30	8.80	621,414.26	800,885.44
13,143.00	90.60	358.40	10,280.44	2,863.07	2,867.22	426.77	2,898.81	8.47	621,507.22	800,882.77
13,238.00	92.90	359.20	10,277.54	2,958.01	2,962.15	424.78	2,992.45	8.16	621,602.15	800,880.78
13,331.00	93.60	0.80	10,272.27	3,050.86	3,055.00	424.78	3,084.39	7.92	621,695.00	800,880.78
13,424.00	92.90	2.80	10,267.00	3,143.63	3,147.80	427.69	3,176.72	7.74	621,787.80	800,883.69
13,518.00	91.70	3.10	10,263.22	3,237.37	3,241.59	432.53	3,270.32	7.60	621,881.59	800,888.53
13,611.00	89.70	4.10	10,262.09	3,330.12	3,334.40	438.37	3,363.09	7.49	621,974.40	800,894.37
13,680.00	90.60	4.00	10,261.91	3,398.90	3,403.22	443.24	3,431.97	7.42	622,043.22	800,899.24
13,773.00	87.90	4.10	10,263.12	3,491.58	3,495.98	449.81	3,524.79	7.33	622,135.98	800,905.81
13,867.00	87.00	4.40	10,267.31	3,585.16	3,589.62	456.77	3,618.57	7.25	622,229.62	800,912.77
13,960.00	85.00	1.70	10,273.79	3,677.74	3,682.25	461.70	3,711.08	7.15	622,322.25	800,917.70
14,053.00	85.00	358.40	10,281.90	3,770.37	3,774.88	461.79	3,803.03	6.97	622,414.88	800,917.79
14,147.00	87.30	356.10	10,288.21	3,864.07	3,868.55	457.28	3,895.48	6.74	622,508.55	800,913.28
14,241.00	88.70	355.50	10,291.49	3,957.82	3,962.24	450.40	3,987.76	6.49	622,602.24	800,906.40
14,335.00	89.30	355.50	10,293.13	4,051.58	4,055.94	443.03	4,080.06	6.23	622,695.94	800,899.03
14,428.00	91.20	354.40	10,292.73	4,144.29	4,148.57	434.84	4,171.29	5.98	622,788.57	800,890.84
14,521.00	93.30	354.10	10,289.08	4,236.82	4,241.02	425.53	4,262.32	5.73	622,881.02	800,881.53
14,616.00	94.00	353.90	10,283.03	4,331.20	4,335.31	415.62	4,355.19	5.48	622,975.31	800,871.62
14,709.00	94.50	356.40	10,276.14	4,423.67	4,427.71	407.78	4,446.45	5.26	623,067.71	800,863.78
14,802.00	94.50	359.40	10,268.84	4,516.34	4,520.36	404.39	4,538.41	5.11	623,160.36	800,860.39
14,896.00	93.30	0.50	10,262.44	4,610.12	4,614.13	404.30	4,631.81	5.01	623,254.13	800,860.30
14,989.00	93.70	359.80	10,256.77	4,702.94	4,706.96	404.55	4,724.31	4.91	623,346.96	800,860.55



ProDirectional Survey Report



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Well: No. 124H
Wellbore: OH
Design: MWD-190'-15082', PTB: 15150'

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3958.50usft
MD Reference: Well @ 3958.50usft
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)
15,082.00	94.10	359.30	10,250.44	4,795.72	4,799.74	403.82	4,816.70	4.81	623,439.74	800,859.82
Last Survey: 15082' MD										
15,150.00	94.10	359.30	10,245.58	4,863.55	4,867.56	402.99	4,884.22	4.73	623,507.56	800,858.99
PTB: 15150' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
190.00	190.00	0.98	0.18	Pro MWD First Survey: 190' MD
15,082.00	10,250.44	4,799.74	403.82	Last Survey: 15082' MD
15,150.00	10,245.58	4,867.56	402.99	PTB: 15150' MD