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DISTRICT II-ARTESIA O.C.D.

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Verna Rae Fed No. 134H

Lea County, NM

30-025-44342

December 14, 2018

Job No. LNM5186418

Certified Report

ORIGINAL



PRODIRECTIONAL

Survey Certification Letter

December 14, 2018



Operator Name: Matador Resources
Well Name: Verna Rae Fed No. 134H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5186418

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	141' MD – 15,647' MD	15,735' MD	09/22/18 – 11/18/18	MWD-OWSG

Sincerely,

Mike Coats

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

Verna Rae Fed

No. 134H

OH

Survey: ProDirectional

Survey Report

14 December, 2018





ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Verna Rae Fed
Well: No. 134H
Wellbore: OH
Design: MWD-141'-15647', Proj. 15735'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3648.50usft
MD Reference: Well @ 3648.50usft
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 Verna Rae Fed

Site Position:	Northing:	585,985.00 usft	Latitude:	32.608764
From: Map	Easting:	768,196.00 usft	Longitude:	-103.596603
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well No. 134H

Well Position	+N/-S	0.00 usft	Northing:	585,955.00 usft	Latitude:	32.608681
	+E/-W	0.00 usft	Easting:	768,227.00 usft	Longitude:	-103.596503
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,620.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/26/2018	6.67	60.55	48,225.80

Design MWD-141'-15647', Proj. 15735'

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	179.95

Survey Program Date 12/14/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
141.00	15,735.00	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	585,955.00	768,227.00
141.00	0.70	241.40	141.00	0.41	-0.41	-0.76	0.86	241.40	585,954.59	768,226.24
Pro MWD First Survey: 141' MD										
201.00	0.60	217.10	200.99	0.84	-0.84	-1.27	1.52	236.52	585,954.16	768,225.73
292.00	0.90	265.60	291.99	1.27	-1.27	-2.27	2.60	240.69	585,953.73	768,224.73
384.00	0.80	277.50	383.98	1.24	-1.24	-3.62	3.83	251.05	585,953.76	768,223.38
476.00	0.60	295.10	475.97	0.95	-0.96	-4.70	4.79	258.49	585,954.04	768,222.30
567.00	1.50	73.90	566.96	0.42	-0.42	-3.98	4.01	263.92	585,954.58	768,223.02
602.00	1.90	83.00	601.94	0.22	-0.23	-2.97	2.98	265.64	585,954.77	768,224.03
692.00	2.50	84.80	691.88	-0.13	0.13	0.47	0.49	74.06	585,955.13	768,227.47
782.00	3.10	87.20	781.77	-0.43	0.43	4.85	4.87	84.93	585,955.43	768,231.85
872.00	3.40	83.90	871.63	-0.82	0.83	9.94	9.97	85.21	585,955.83	768,236.94
962.00	4.20	86.10	961.43	-1.33	1.34	15.88	15.94	85.17	585,956.34	768,242.88
1,056.00	4.70	86.50	1,055.14	-1.79	1.81	23.16	23.23	85.53	585,956.81	768,250.16
1,150.00	3.90	86.20	1,148.88	-2.23	2.26	30.19	30.27	85.73	585,957.26	768,257.19
1,243.00	3.60	79.80	1,241.68	-2.95	2.98	36.22	36.34	85.29	585,957.98	768,263.22
1,337.00	2.70	73.00	1,335.54	-4.12	4.15	41.24	41.45	84.25	585,959.15	768,268.24
1,430.00	2.30	72.20	1,428.45	-5.32	5.36	45.11	45.43	83.22	585,960.36	768,272.11
1,524.00	1.90	72.80	1,522.38	-6.36	6.40	48.40	48.82	82.47	585,961.40	768,275.40
1,708.00	1.60	69.10	1,706.30	-8.17	8.22	53.71	54.34	81.30	585,963.22	768,280.71
1,802.00	1.90	72.10	1,800.25	-9.12	9.17	56.42	57.16	80.77	585,964.17	768,283.42
1,895.00	2.40	71.80	1,893.19	-10.20	10.25	59.74	60.61	80.26	585,965.25	768,286.74
1,989.00	2.00	71.10	1,987.12	-11.34	11.40	63.16	64.18	79.77	585,966.40	768,290.16
2,082.00	1.90	72.50	2,080.07	-12.33	12.38	66.16	67.31	79.40	585,967.38	768,293.16
2,175.00	1.60	72.40	2,173.02	-13.18	13.24	68.87	70.13	79.12	585,968.24	768,295.87
2,269.00	2.20	71.30	2,266.97	-14.15	14.22	71.83	73.23	78.81	585,969.22	768,298.83
2,362.00	3.80	72.00	2,359.84	-15.67	15.74	76.45	78.06	78.37	585,970.74	768,303.45



ProDirectional Survey Report



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Survey

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2,456.00	6.20	68.00	2,453.47	-18.53	18.60	84.12	86.16	77.53	585,973.60	768,311.12
2,550.00	7.20	67.90	2,546.83	-22.64	22.72	94.29	96.99	76.45	585,977.72	768,321.29
2,643.00	7.20	66.70	2,639.10	-27.13	27.22	105.04	108.51	75.47	585,982.22	768,332.04
2,736.00	7.00	67.40	2,731.39	-31.60	31.70	115.63	119.89	74.67	585,986.70	768,342.63
2,830.00	6.90	66.10	2,824.69	-36.08	36.19	126.08	131.17	73.98	585,991.19	768,353.08
2,923.00	6.90	68.10	2,917.02	-40.42	40.54	136.37	142.27	73.44	585,995.54	768,363.37
3,017.00	7.00	70.00	3,010.33	-44.48	44.60	146.99	153.61	73.12	585,999.60	768,373.99
3,111.00	7.80	71.00	3,103.55	-48.50	48.64	158.40	165.70	72.93	586,003.64	768,385.40
3,204.00	9.40	73.70	3,195.50	-52.68	52.83	171.66	179.60	72.89	586,007.83	768,398.66
3,298.00	9.90	76.70	3,288.17	-56.68	56.84	186.89	195.34	73.08	586,011.84	768,413.89
3,391.00	8.90	75.30	3,379.92	-60.33	60.51	201.63	210.51	73.30	586,015.51	768,428.63
3,485.00	9.40	75.00	3,472.72	-64.15	64.34	216.08	225.45	73.42	586,019.34	768,443.08
3,578.00	10.60	72.50	3,564.31	-68.67	68.87	231.57	241.60	73.44	586,023.87	768,458.57
3,671.00	9.90	71.60	3,655.82	-73.75	73.97	247.32	258.14	73.35	586,028.97	768,474.32
3,765.00	9.40	72.90	3,748.49	-78.55	78.78	262.32	273.90	73.28	586,033.78	768,489.32
3,858.00	9.20	74.20	3,840.27	-82.79	83.04	276.73	288.92	73.30	586,038.04	768,503.73
3,951.00	9.60	74.80	3,932.02	-86.84	87.09	291.37	304.11	73.36	586,042.09	768,518.37
4,045.00	9.40	75.80	4,024.73	-90.76	91.03	306.38	319.61	73.45	586,046.03	768,533.38
4,139.00	9.40	77.20	4,117.47	-94.33	94.62	321.30	334.95	73.59	586,049.62	768,548.30
4,232.00	9.40	78.30	4,209.22	-97.54	97.84	336.15	350.10	73.77	586,052.84	768,563.15
4,326.00	9.50	78.30	4,301.95	-100.66	100.97	351.26	365.48	73.96	586,055.97	768,578.26
4,419.00	9.50	79.00	4,393.67	-103.67	103.99	366.31	380.78	74.15	586,058.99	768,593.31
4,513.00	9.40	78.80	4,486.40	-106.63	106.96	381.45	396.17	74.34	586,061.96	768,608.45
4,607.00	9.10	77.50	4,579.17	-109.71	110.06	396.24	411.24	74.48	586,065.06	768,623.24
4,700.00	9.00	77.60	4,671.02	-112.86	113.21	410.53	425.85	74.58	586,068.21	768,637.53
4,794.00	10.10	71.50	4,763.71	-117.04	117.41	425.52	441.42	74.58	586,072.41	768,652.52
4,888.00	9.90	67.30	4,856.29	-122.76	123.14	440.80	457.67	74.39	586,078.14	768,667.80



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4,981.00	11.50	67.30	4,947.67	-129.41	129.80	456.72	474.81	74.13	586,084.80	768,683.72
5,074.00	11.60	68.30	5,038.78	-136.43	136.84	473.96	493.32	73.90	586,091.84	768,700.96
5,168.00	11.90	69.00	5,130.81	-143.38	143.81	491.79	512.39	73.70	586,098.81	768,718.79
5,261.00	12.00	70.80	5,221.80	-149.98	150.42	509.87	531.60	73.56	586,105.42	768,736.87
5,348.00	12.00	71.40	5,306.90	-155.82	156.28	526.99	549.67	73.48	586,111.28	768,753.99
5,451.00	11.90	72.80	5,407.67	-162.36	162.84	547.28	570.99	73.43	586,117.84	768,774.28
5,545.00	12.00	72.20	5,499.63	-168.20	168.69	565.84	590.45	73.40	586,123.69	768,792.84
5,638.00	11.70	72.40	5,590.65	-173.99	174.50	584.04	609.55	73.37	586,129.50	768,811.04
5,732.00	11.50	72.40	5,682.73	-179.69	180.21	602.05	628.45	73.34	586,135.21	768,829.05
5,825.00	9.60	71.20	5,774.15	-184.98	185.51	618.23	645.47	73.30	586,140.51	768,845.23
5,919.00	9.10	69.80	5,866.90	-190.06	190.61	632.63	660.72	73.23	586,145.61	768,859.63
6,012.00	8.90	69.60	5,958.76	-195.09	195.65	646.27	675.24	73.16	586,150.65	768,873.27
6,105.00	8.70	68.80	6,050.66	-200.13	200.71	659.57	689.43	73.08	586,155.71	768,886.57
6,199.00	6.10	80.20	6,143.88	-203.54	204.13	671.13	701.48	73.08	586,159.13	768,898.13
6,292.00	5.60	82.40	6,236.39	-204.97	205.57	680.49	710.86	73.19	586,160.57	768,907.49
6,386.00	5.40	80.20	6,329.96	-206.33	206.93	689.40	719.78	73.29	586,161.93	768,916.40
6,479.00	3.00	77.40	6,422.70	-207.60	208.20	696.09	726.56	73.35	586,163.20	768,923.09
6,577.00	2.80	71.80	6,520.58	-208.90	209.51	700.86	731.51	73.36	586,164.51	768,927.86
6,666.00	2.80	72.40	6,609.47	-210.23	210.85	705.00	735.85	73.35	586,165.85	768,932.00
6,759.00	2.60	72.80	6,702.37	-211.54	212.16	709.18	740.23	73.34	586,167.16	768,936.18
6,853.00	2.40	71.50	6,796.28	-212.79	213.41	713.08	744.33	73.34	586,168.41	768,940.08
6,946.00	2.30	75.30	6,889.20	-213.88	214.50	716.73	748.14	73.34	586,169.50	768,943.73
7,040.00	2.20	77.60	6,983.13	-214.74	215.37	720.32	751.83	73.35	586,170.37	768,947.32
7,133.00	2.00	77.70	7,076.06	-215.47	216.10	723.65	755.23	73.37	586,171.10	768,950.65
7,227.00	1.90	78.90	7,170.01	-216.11	216.75	726.78	758.41	73.39	586,171.75	768,953.78
7,320.00	2.00	81.00	7,262.96	-216.66	217.30	729.90	761.56	73.42	586,172.30	768,956.90
7,414.00	1.90	75.20	7,356.90	-217.31	217.95	733.02	764.74	73.44	586,172.95	768,960.02



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7,508.00	1.90	72.20	7,450.85	-218.19	218.83	736.01	767.86	73.44	586,173.83	768,963.01
7,602.00	1.90	74.80	7,544.80	-219.07	219.71	739.00	770.97	73.44	586,174.71	768,966.00
7,696.00	1.80	77.60	7,638.75	-219.79	220.44	741.95	774.00	73.45	586,175.44	768,968.95
7,789.00	1.70	78.30	7,731.71	-220.38	221.03	744.72	776.83	73.47	586,176.03	768,971.72
7,883.00	1.80	79.00	7,825.66	-220.94	221.60	747.54	779.69	73.49	586,176.60	768,974.54
7,977.00	1.70	77.90	7,919.62	-221.52	222.17	750.35	782.55	73.51	586,177.17	768,977.35
8,070.00	1.70	81.10	8,012.58	-222.02	222.67	753.06	785.29	73.53	586,177.67	768,980.06
8,164.00	0.50	155.40	8,106.56	-221.86	222.52	754.61	786.74	73.57	586,177.52	768,981.61
8,256.00	1.40	207.40	8,198.55	-220.50	221.15	754.26	786.02	73.66	586,176.15	768,981.26
8,350.00	1.20	215.20	8,292.52	-218.67	219.33	753.17	784.45	73.76	586,174.33	768,980.17
8,443.00	1.10	227.60	8,385.51	-217.28	217.93	751.95	782.89	73.84	586,172.93	768,978.95
8,537.00	1.50	231.40	8,479.48	-215.90	216.56	750.32	780.94	73.90	586,171.56	768,977.32
8,630.00	1.30	232.50	8,572.45	-214.50	215.15	748.53	778.84	73.96	586,170.15	768,975.53
8,724.00	0.70	213.60	8,666.44	-213.37	214.03	747.37	777.41	74.02	586,169.03	768,974.37
8,817.00	0.60	241.50	8,759.43	-212.67	213.32	746.62	776.50	74.05	586,168.32	768,973.62
8,910.00	0.90	247.20	8,852.43	-212.16	212.81	745.52	775.30	74.07	586,167.81	768,972.52
9,004.00	1.00	246.90	8,946.41	-211.55	212.20	744.09	773.75	74.08	586,167.20	768,971.09
9,097.00	1.00	237.50	9,039.40	-210.80	211.44	742.66	772.17	74.11	586,166.44	768,969.66
9,191.00	0.90	231.20	9,133.39	-209.89	210.54	741.39	770.70	74.15	586,165.54	768,968.39
9,284.00	0.90	218.90	9,226.37	-208.87	209.51	740.36	769.44	74.20	586,164.51	768,967.36
9,378.00	1.00	216.90	9,320.36	-207.64	208.28	739.40	768.18	74.27	586,163.28	768,966.40
9,471.00	1.60	251.40	9,413.34	-206.58	207.22	737.69	766.24	74.31	586,162.22	768,964.69
9,564.00	1.70	246.50	9,506.30	-205.62	206.26	735.19	763.58	74.33	586,161.26	768,962.19
9,658.00	0.40	46.70	9,600.29	-205.28	205.93	734.15	762.49	74.33	586,160.93	768,961.15
9,751.00	0.90	76.10	9,693.28	-205.68	206.32	735.10	763.50	74.32	586,161.32	768,962.10
9,844.00	0.90	66.40	9,786.27	-206.15	206.79	736.48	764.96	74.32	586,161.79	768,963.48
9,938.00	1.00	78.30	9,880.26	-206.61	207.25	737.95	766.51	74.31	586,162.25	768,964.95



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10,032.00	1.00	103.70	9,974.24	-206.58	207.23	739.55	768.04	74.35	586,162.23	768,966.55
10,126.00	1.10	108.10	10,068.23	-206.10	206.75	741.21	769.50	74.41	586,161.75	768,968.21
10,219.00	1.50	123.90	10,161.20	-205.15	205.79	743.07	771.04	74.52	586,160.79	768,970.07
10,252.00	1.40	120.30	10,194.19	-204.70	205.35	743.77	771.60	74.57	586,160.35	768,970.77
10,376.00	10.70	160.90	10,317.39	-193.03	193.68	748.86	773.50	75.50	586,148.68	768,975.86
10,470.00	24.30	166.70	10,406.84	-165.82	166.48	756.20	774.31	77.58	586,121.48	768,983.20
10,564.00	31.40	174.80	10,489.92	-122.54	123.20	762.88	772.77	80.83	586,078.20	768,989.88
10,657.00	38.20	176.20	10,566.25	-69.65	70.32	766.99	770.20	84.76	586,025.32	768,993.99
10,750.00	45.60	178.70	10,635.43	-7.65	8.32	769.65	769.70	89.38	585,963.32	768,996.65
10,844.00	52.60	179.10	10,696.93	63.34	-62.67	771.00	773.54	94.65	585,892.33	768,998.00
10,937.00	59.70	181.30	10,748.71	140.52	-139.85	770.67	783.26	100.29	585,815.15	768,997.67
11,030.00	67.40	182.40	10,790.10	223.68	-223.01	767.96	799.68	106.19	585,731.99	768,994.96
11,124.00	75.90	182.10	10,819.67	312.74	-312.08	764.46	825.71	112.21	585,642.92	768,991.46
11,217.00	88.00	180.60	10,832.67	404.63	-403.96	762.32	862.73	117.92	585,551.04	768,989.32
11,311.00	90.60	181.10	10,833.82	498.60	-497.93	760.92	909.36	123.20	585,457.07	768,987.92
11,404.00	88.80	180.20	10,834.30	591.59	-590.92	759.87	962.59	127.87	585,364.08	768,986.87
11,439.00	89.10	179.80	10,834.94	626.58	-625.92	759.87	984.46	129.48	585,329.08	768,986.87
11,532.00	87.60	179.80	10,837.62	719.54	-718.87	760.19	1,046.27	133.40	585,236.13	768,987.19
11,625.00	87.50	179.10	10,841.60	812.45	-811.78	761.08	1,112.76	136.85	585,143.22	768,988.08
11,719.00	88.60	178.20	10,844.80	906.37	-905.70	763.30	1,184.45	139.88	585,049.30	768,990.30
11,813.00	89.60	176.90	10,846.27	1,000.27	-999.60	767.31	1,260.15	142.49	584,955.40	768,994.31
11,906.00	88.40	179.30	10,847.90	1,093.20	-1,092.53	770.40	1,336.84	144.81	584,862.47	768,997.40
11,999.00	88.70	180.30	10,850.25	1,186.17	-1,185.50	770.72	1,414.01	146.97	584,769.50	768,997.72
12,093.00	89.10	180.80	10,852.05	1,280.14	-1,279.47	769.82	1,493.21	148.97	584,675.53	768,996.82
12,186.00	88.00	181.30	10,854.41	1,373.10	-1,372.43	768.12	1,572.75	150.77	584,582.57	768,995.12
12,280.00	88.60	181.60	10,857.20	1,467.02	-1,466.35	765.74	1,654.25	152.43	584,488.65	768,992.74
12,374.00	89.20	181.20	10,859.00	1,560.97	-1,560.31	763.44	1,737.07	153.93	584,394.69	768,990.44



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Verna Rae Fed
Well: No. 134H
Wellbore: OH
Design: MWD-141'-15647', Proj. 15735'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3648.50usft
MD Reference: Well @ 3648.50usft
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)
12,469.00	90.00	180.50	10,859.66	1,655.96	-1,655.29	762.03	1,822.28	155.28	584,299.71	768,989.03
12,562.00	90.20	180.10	10,859.50	1,748.96	-1,748.29	761.55	1,906.96	156.46	584,206.71	768,988.55
12,656.00	90.90	178.80	10,858.60	1,842.95	-1,842.28	762.45	1,993.82	157.52	584,112.72	768,989.45
12,750.00	91.50	177.40	10,856.63	1,936.87	-1,936.21	765.56	2,082.06	158.43	584,018.79	768,992.56
12,843.00	90.00	177.90	10,855.41	2,029.79	-2,029.12	769.38	2,170.08	159.23	583,925.88	768,996.38
12,936.00	88.10	179.40	10,856.95	2,122.74	-2,122.07	771.57	2,257.99	160.02	583,832.93	768,998.57
13,030.00	88.30	179.30	10,859.91	2,216.69	-2,216.02	772.63	2,346.85	160.78	583,738.98	768,999.63
13,122.00	89.40	178.90	10,861.75	2,308.66	-2,307.99	774.08	2,434.34	161.46	583,647.01	769,001.08
13,216.00	88.50	178.80	10,863.48	2,402.63	-2,401.95	775.96	2,524.18	162.10	583,553.05	769,002.96
13,309.00	88.30	179.00	10,866.07	2,495.58	-2,494.90	777.75	2,613.31	162.69	583,460.10	769,004.75
13,403.00	88.50	178.40	10,868.70	2,589.52	-2,588.84	779.88	2,703.76	163.24	583,366.16	769,006.88
13,497.00	88.70	176.90	10,870.99	2,683.41	-2,682.73	783.73	2,794.86	163.71	583,272.27	769,010.73
13,590.00	90.10	179.10	10,871.97	2,776.34	-2,775.66	786.98	2,885.07	164.17	583,179.34	769,013.98
13,683.00	91.00	180.10	10,871.08	2,869.34	-2,868.65	787.63	2,974.81	164.65	583,086.35	769,014.63
13,777.00	89.90	180.90	10,870.34	2,963.33	-2,962.64	786.81	3,065.34	165.13	582,992.36	769,013.81
13,870.00	90.00	181.00	10,870.42	3,056.31	-3,055.63	785.27	3,154.92	165.59	582,899.37	769,012.27
13,963.00	90.10	180.30	10,870.34	3,149.30	-3,148.62	784.21	3,244.81	166.01	582,806.38	769,011.21
14,057.00	89.80	182.00	10,870.42	3,243.28	-3,242.60	782.32	3,335.64	166.44	582,712.40	769,009.32
14,151.00	90.30	182.70	10,870.34	3,337.20	-3,336.52	778.47	3,426.13	166.87	582,618.48	769,005.47
14,244.00	92.00	183.00	10,868.47	3,430.06	-3,429.38	773.85	3,515.61	167.28	582,525.62	769,000.85
14,337.00	90.60	183.20	10,866.36	3,522.89	-3,522.22	768.82	3,605.15	167.69	582,432.78	768,995.82
14,431.00	87.40	183.10	10,868.00	3,616.72	-3,616.05	763.66	3,695.81	168.08	582,338.95	768,990.66
14,525.00	87.40	182.90	10,872.27	3,710.49	-3,709.82	758.74	3,786.62	168.44	582,245.18	768,985.74
14,618.00	88.30	182.80	10,875.75	3,803.30	-3,802.64	754.12	3,876.70	168.78	582,152.36	768,981.12
14,711.00	89.10	181.90	10,877.86	3,896.19	-3,895.54	750.31	3,967.14	169.10	582,059.46	768,977.31
14,805.00	87.10	181.20	10,880.98	3,990.10	-3,989.45	747.77	4,058.92	169.38	581,965.55	768,974.77
14,899.00	87.60	180.60	10,885.33	4,083.99	-4,083.34	746.29	4,150.97	169.64	581,871.66	768,973.29



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Verna Rae Fed
Well: No. 134H
Wellbore: OH
Design: MWD-141'-15647', Proj. 15735'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3648.50usft
MD Reference: Well @ 3648.50usft
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)
14,993.00	88.10	179.80	10,888.85	4,177.92	-4,177.27	745.96	4,243.35	169.88	581,777.73	768,972.96
15,086.00	89.10	179.10	10,891.13	4,270.88	-4,270.23	746.86	4,335.05	170.08	581,684.77	768,973.86
15,180.00	90.10	178.50	10,891.78	4,364.86	-4,364.21	748.83	4,427.99	170.26	581,590.79	768,975.83
15,273.00	90.70	177.40	10,891.13	4,457.80	-4,457.15	752.15	4,520.16	170.42	581,497.85	768,979.15
15,366.00	91.70	176.60	10,889.18	4,550.65	-4,550.00	757.02	4,612.54	170.55	581,405.00	768,984.02
15,460.00	90.50	178.60	10,887.38	4,644.55	-4,643.89	760.95	4,705.82	170.69	581,311.11	768,987.95
15,553.00	89.90	178.50	10,887.06	4,737.52	-4,736.86	763.31	4,797.96	170.85	581,218.14	768,990.31
15,647.00	91.20	178.30	10,886.15	4,831.48	-4,830.82	765.93	4,891.16	170.99	581,124.18	768,992.93
Last Survey: 15647' MD										
15,735.00	91.20	178.30	10,884.31	4,919.43	-4,918.76	768.54	4,978.44	171.12	581,036.24	768,995.54
PTB: 15735' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
141.00	141.00	-0.41	-0.76	Pro MWD First Survey: 141' MD
15,647.00	10,886.15	-4,830.82	765.93	Last Survey: 15647' MD
15,735.00	10,884.31	-4,918.76	768.54	PTB: 15735' MD