



PRODIRECTIONAL



Airstrip 31-18S-35E RN St. Com #132H(ST)

Lea County, NM

30-025-43816

July 14, 2017

Job No. LNM5141717

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

July 14, 2017



Operator Name: Matador Resources
Well Name: Airstrip 31-18S-35E RN State Com #132H(ST01)
County/Parish: Lea County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5141717

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	13,652' MD – 15,243' MD	15,406' MD	06/28/17 – 06/29/17	MWD

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com



Matador Resources

**Lea County, NM
Airstrip 31 State Com
No. 132H
ST #1**

Survey: ProDirectional

Survey Report

14 July, 2017





ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 132H
Project:	Lea County, NM	TVD Reference:	Rig @ 3965.50usft (GL:3937'+KB:28.5')
Site:	Airstrip 31 State Com	MD Reference:	Rig @ 3965.50usft (GL:3937'+KB:28.5')
Well:	132H	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1 MWD	Database:	WellPlanner1

Project	Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Airstrip 31 State Com		
Site Position:		Northing:	618,377.00 usft
From:	Map	Easting:	755,563.00 usft
Position Uncertainty:	1.10 usft	Slot Radius:	13-3/16 "
		Latitude:	32.6972652
		Longitude:	-103.5025866
		Grid Convergence:	0.45 °

Well	132H		
Well Position	+N/-S	0.00 usft	Northing: 619,081.00 usft
	+E/-W	0.00 usft	Easting: 756,534.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.6991792
		Longitude:	-103.4994125
		Ground Level:	3,937.00 usft

Wellbore	ST #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	6/26/2017	6.67
			Dip Angle
			(°)
			60.73
			Field Strength
			(nT)
			48,292.80

Design	ST #1 MWD		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	13,553.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			359.48



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: ST #1
Design: ST #1 MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey Program		Date 7/14/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.00	3,932.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM
4,058.00	8,640.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HRGM
8,776.00	9,619.00	Survey #3 (OH)	MWD+HDGM	OWSG MWD + HRGM
9,718.00	13,553.00	Survey #4 (OH)	MWD+HDGM	OWSG MWD + HRGM
13,652.00	15,406.00	Survey #1 (ST #1)	MWD+HDGM	OWSG MWD + HRGM

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	619,081.00	756,534.00	
200.00	1.10	42.50	199.99	1.40	1.42	1.30	1.92	42.50	619,082.42	756,535.30	
324.00	1.20	34.50	323.96	3.34	3.36	2.84	4.40	40.15	619,084.36	756,536.84	
413.00	1.20	35.50	412.94	4.85	4.89	3.91	6.26	38.62	619,085.89	756,537.91	
506.00	1.40	34.90	505.92	6.57	6.61	5.12	8.37	37.75	619,087.61	756,539.12	
597.00	1.50	29.80	596.89	8.50	8.56	6.35	10.66	36.57	619,089.56	756,540.35	
690.00	1.70	35.20	689.85	10.67	10.74	7.75	13.25	35.80	619,091.74	756,541.75	
792.00	2.00	37.70	791.80	13.30	13.39	9.71	16.54	35.95	619,094.39	756,543.71	
884.00	1.50	51.80	883.76	15.30	15.40	11.64	19.30	37.07	619,096.40	756,545.64	
977.00	1.40	97.20	976.73	15.89	16.01	13.72	21.09	40.59	619,097.01	756,547.72	
1,070.00	1.50	136.50	1,069.70	14.84	14.99	15.69	21.70	46.31	619,095.99	756,549.69	
1,164.00	2.20	172.10	1,163.66	12.16	12.31	16.78	20.81	53.74	619,093.31	756,550.78	
1,257.00	3.00	180.90	1,256.56	7.95	8.11	16.99	18.82	64.49	619,089.11	756,550.99	
1,351.00	3.20	186.60	1,350.42	2.89	3.04	16.65	16.92	79.65	619,084.04	756,550.65	
1,445.00	3.10	187.20	1,444.28	-2.23	-2.09	16.03	16.16	97.42	619,078.91	756,550.03	
1,538.00	3.10	187.00	1,537.15	-7.22	-7.08	15.41	16.95	114.67	619,073.92	756,549.41	
1,632.00	3.10	186.40	1,631.01	-12.26	-12.13	14.81	19.14	129.30	619,068.87	756,548.81	
1,726.00	2.90	186.80	1,724.88	-17.14	-17.01	14.25	22.19	140.05	619,063.99	756,548.25	
1,819.00	2.90	189.40	1,817.76	-21.79	-21.67	13.59	25.58	147.91	619,059.33	756,547.59	



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Corn
Well: 132H
Wellbore: ST #1
Design: ST #1 MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)	
1,862.00	3.00	191.90	1,860.70	-23.96	-23.84	13.18	27.24	151.08	619,057.16	756,547.18	
2,006.00	2.80	188.30	2,004.52	-31.12	-31.01	11.89	33.21	159.02	619,049.99	756,545.89	
2,099.00	3.30	170.20	2,097.39	-36.01	-35.90	12.02	37.86	161.49	619,045.10	756,546.02	
2,193.00	3.80	167.60	2,191.21	-41.72	-41.61	13.15	43.63	162.46	619,039.39	756,547.15	
2,286.00	4.30	145.80	2,283.98	-47.64	-47.50	15.77	50.05	161.63	619,033.50	756,549.77	
2,379.00	5.20	137.70	2,376.66	-53.69	-53.50	20.57	57.32	158.97	619,027.50	756,554.57	
2,473.00	5.10	138.10	2,470.28	-60.00	-59.76	26.22	65.26	156.31	619,021.24	756,560.22	
2,566.00	5.10	156.20	2,562.92	-66.90	-66.62	30.65	73.33	155.29	619,014.38	756,564.65	
2,660.00	5.40	162.70	2,656.53	-74.97	-74.67	33.65	81.90	155.74	619,006.33	756,567.65	
2,753.00	5.00	157.30	2,749.14	-82.91	-82.58	36.52	90.30	156.14	618,998.42	756,570.52	
2,847.00	4.50	153.10	2,842.82	-90.01	-89.65	39.77	98.08	156.08	618,991.35	756,573.77	
2,940.00	4.30	146.90	2,935.55	-96.21	-95.83	43.32	105.16	155.67	618,985.17	756,577.32	
3,034.00	5.10	147.40	3,029.23	-102.72	-102.30	47.50	112.79	155.09	618,978.70	756,581.50	
3,127.00	6.40	150.70	3,121.76	-110.77	-110.30	52.26	122.06	154.65	618,970.70	756,586.26	
3,220.00	6.10	145.80	3,214.21	-119.42	-118.91	57.58	132.11	154.16	618,962.09	756,591.58	
3,314.00	5.40	143.60	3,307.74	-127.16	-126.60	63.01	141.41	153.54	618,954.40	756,597.01	
3,407.00	4.80	144.00	3,400.37	-133.88	-133.27	67.89	149.57	153.00	618,947.73	756,601.89	
3,501.00	4.00	144.10	3,494.09	-139.75	-139.11	72.13	156.69	152.59	618,941.89	756,606.13	
3,594.00	4.40	147.60	3,586.84	-145.43	-144.75	75.94	163.46	152.32	618,936.25	756,609.94	
3,688.00	5.80	147.60	3,680.46	-152.52	-151.80	80.42	171.79	152.09	618,929.20	756,614.42	
3,781.00	5.10	147.70	3,773.04	-160.03	-159.26	85.14	180.59	151.87	618,921.74	756,619.14	
3,875.00	5.00	149.60	3,866.68	-167.13	-166.33	89.45	188.85	151.73	618,914.67	756,623.45	
3,932.00	4.60	150.50	3,923.48	-171.29	-170.46	91.83	193.62	151.69	618,910.54	756,625.83	
4,058.00	3.70	149.10	4,049.15	-179.21	-178.35	96.41	202.74	151.61	618,902.65	756,630.41	
4,152.00	3.10	143.90	4,142.98	-183.90	-183.00	99.46	208.28	151.48	618,898.00	756,633.46	
4,245.00	4.30	165.00	4,235.79	-189.32	-188.40	101.85	214.17	151.60	618,892.60	756,635.85	
4,339.00	4.80	166.30	4,329.49	-196.56	-195.63	103.69	221.41	152.07	618,885.37	756,637.69	



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: ST #1
Design: ST #1 MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)	
4,433.00	5.50	164.00	4,423.11	-204.73	-203.78	105.86	229.64	152.55	618,877.22	756,639.86	
4,526.00	5.70	158.90	4,515.67	-213.35	-212.37	108.76	238.60	152.88	618,868.63	756,642.76	
4,620.00	6.20	164.90	4,609.16	-222.63	-221.63	111.76	248.21	153.24	618,859.37	756,645.76	
4,713.00	6.80	167.60	4,701.57	-232.88	-231.85	114.25	258.47	153.77	618,849.15	756,648.25	
4,807.00	6.00	167.50	4,794.98	-243.13	-242.08	116.51	268.66	154.30	618,838.92	756,650.51	
4,900.00	7.10	166.50	4,887.37	-253.49	-252.42	118.90	279.02	154.78	618,828.58	756,652.90	
4,995.00	9.00	164.20	4,981.43	-266.38	-265.28	122.30	292.11	155.25	618,815.72	756,656.30	
5,088.00	9.10	162.30	5,073.27	-280.42	-279.28	126.51	306.60	155.63	618,801.72	756,660.51	
5,182.00	8.40	164.10	5,166.18	-294.14	-292.97	130.65	320.78	155.96	618,788.03	756,664.65	
5,275.00	7.60	163.30	5,258.27	-306.60	-305.39	134.28	333.61	156.26	618,775.61	756,668.28	
5,369.00	7.40	163.20	5,351.47	-318.38	-317.14	137.82	345.79	156.51	618,763.86	756,671.82	
5,556.00	6.50	163.80	5,537.09	-340.13	-338.83	144.25	368.26	156.94	618,742.17	756,678.25	
5,650.00	7.70	160.80	5,630.37	-351.22	-349.89	147.81	379.83	157.10	618,731.11	756,681.81	
5,743.00	8.60	158.00	5,722.43	-363.59	-362.22	152.46	393.00	157.17	618,718.78	756,686.46	
5,837.00	8.20	158.90	5,815.42	-376.41	-374.99	157.51	406.73	157.22	618,706.01	756,691.51	
5,930.00	7.60	156.40	5,907.54	-388.27	-386.82	162.36	419.51	157.23	618,694.18	756,696.36	
6,024.00	7.10	155.10	6,000.77	-399.28	-397.78	167.29	431.53	157.19	618,683.22	756,701.29	
6,117.00	8.80	161.50	6,092.87	-411.29	-409.74	171.97	444.37	157.23	618,671.26	756,705.97	
6,211.00	9.30	161.50	6,185.70	-425.35	-423.76	176.66	459.11	157.37	618,657.24	756,710.66	
6,304.00	8.60	161.30	6,277.57	-439.10	-437.48	181.27	473.55	157.49	618,643.52	756,715.27	
6,398.00	7.80	156.20	6,370.61	-451.64	-449.97	186.10	486.94	157.53	618,631.03	756,720.10	
6,491.00	6.80	153.40	6,462.85	-462.38	-460.67	191.11	498.74	157.47	618,620.33	756,725.11	
6,585.00	6.50	151.00	6,556.22	-472.06	-470.30	196.18	509.58	157.36	618,610.70	756,730.18	
6,678.00	7.80	158.10	6,648.50	-482.56	-480.76	201.09	521.12	157.30	618,600.24	756,735.09	
6,772.00	8.10	158.50	6,741.59	-494.69	-492.84	205.90	534.12	157.33	618,588.16	756,739.90	
6,865.00	7.50	157.60	6,833.73	-506.44	-504.55	210.61	546.74	157.34	618,576.45	756,744.61	
6,958.00	7.00	156.70	6,925.99	-517.29	-515.36	215.17	558.47	157.34	618,565.64	756,749.17	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Corn
Well: 132H
Wellbore: ST #1
Design: ST #1 MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)	
7,052.00	8.80	158.50	7,019.09	-529.29	-527.31	220.07	571.39	157.35	618,553.69	756,754.07	
7,146.00	9.10	160.50	7,111.95	-543.03	-541.01	225.18	586.00	157.40	618,539.99	756,759.18	
7,239.00	8.30	161.70	7,203.88	-556.38	-554.32	229.75	600.04	157.49	618,526.68	756,763.75	
7,332.00	6.60	160.00	7,296.09	-567.81	-565.71	233.68	612.08	157.56	618,515.29	756,767.68	
7,426.00	5.10	157.40	7,389.60	-576.77	-574.65	237.14	621.65	157.58	618,506.35	756,771.14	
7,519.00	6.40	161.20	7,482.13	-585.53	-583.37	240.39	630.96	157.60	618,497.63	756,774.39	
7,613.00	5.50	159.90	7,575.62	-594.75	-592.56	243.63	640.69	157.65	618,488.44	756,777.63	
7,706.00	6.10	158.30	7,668.15	-603.55	-601.34	246.99	650.08	157.67	618,479.66	756,780.99	
7,799.00	5.40	154.20	7,760.68	-612.12	-609.87	250.72	659.39	157.65	618,471.13	756,784.72	
7,893.00	6.80	147.30	7,854.14	-620.83	-618.53	255.65	669.28	157.54	618,462.47	756,789.65	
7,986.00	7.00	154.00	7,946.47	-630.60	-628.26	261.11	680.36	157.43	618,452.74	756,795.11	
8,080.00	5.60	150.80	8,039.90	-639.80	-637.41	265.86	690.63	157.36	618,443.59	756,799.86	
8,173.00	6.60	163.30	8,132.38	-648.91	-646.49	269.61	700.46	157.36	618,434.51	756,803.61	
8,266.00	7.80	162.70	8,224.64	-660.09	-657.64	273.02	712.06	157.45	618,423.36	756,807.02	
8,360.00	6.30	157.40	8,317.93	-670.98	-668.49	276.90	723.57	157.50	618,412.51	756,810.90	
8,453.00	5.10	152.00	8,410.47	-679.37	-676.85	280.80	732.79	157.47	618,404.15	756,814.80	
8,546.00	5.50	168.90	8,503.08	-687.42	-684.87	283.60	741.27	157.51	618,396.13	756,817.60	
8,640.00	8.20	178.90	8,596.40	-698.55	-696.00	284.60	751.94	157.76	618,385.00	756,818.60	
8,776.00	8.60	175.50	8,730.94	-718.40	-715.83	285.58	770.70	158.25	618,365.17	756,819.58	
8,870.00	7.80	170.10	8,823.98	-731.70	-729.12	287.23	783.66	158.50	618,351.88	756,821.23	
8,964.00	6.90	164.40	8,917.21	-743.45	-740.85	289.85	795.53	158.63	618,340.15	756,823.85	
9,058.00	6.60	159.80	9,010.56	-753.99	-751.36	293.23	806.55	158.68	618,329.64	756,827.23	
9,151.00	5.80	155.80	9,103.02	-763.32	-760.66	297.00	816.58	158.67	618,320.34	756,831.00	
9,245.00	5.00	147.60	9,196.60	-771.15	-768.45	301.14	825.35	158.60	618,312.55	756,835.14	
9,338.00	4.80	146.10	9,289.26	-777.84	-775.10	305.49	833.13	158.49	618,305.90	756,839.49	
9,432.00	4.30	138.90	9,382.96	-783.80	-781.02	310.00	840.29	158.35	618,299.98	756,844.00	
9,526.00	2.10	181.30	9,476.82	-788.20	-785.40	312.27	845.20	158.32	618,295.60	756,846.27	



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: ST #1
Design: ST #1 MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)	
9,619.00	3.10	237.10	9,569.74	-791.25	-788.47	310.12	847.27	158.53	618,292.53	756,844.12	
9,718.00	3.20	239.90	9,668.59	-794.05	-791.31	305.49	848.23	158.89	618,289.69	756,839.49	
9,811.00	2.30	250.70	9,761.48	-795.93	-793.23	301.48	848.59	159.19	618,287.77	756,835.48	
9,905.00	1.80	346.50	9,855.44	-795.10	-792.41	299.35	847.07	159.30	618,288.59	756,833.35	
9,998.00	1.50	358.30	9,948.40	-792.46	-789.78	298.98	844.47	159.27	618,291.22	756,832.98	
10,093.00	2.20	354.30	10,043.35	-789.40	-786.72	298.76	841.54	159.21	618,294.28	756,832.76	
10,186.00	13.30	357.30	10,135.36	-776.89	-774.22	298.07	829.62	158.94	618,306.78	756,832.07	
10,233.00	18.30	1.30	10,180.57	-764.11	-761.43	297.99	817.67	158.63	618,319.57	756,831.99	
10,280.00	23.50	0.70	10,224.47	-747.35	-744.68	298.27	802.19	158.17	618,336.32	756,832.27	
10,327.00	29.90	357.70	10,266.43	-726.25	-723.58	297.91	782.51	157.62	618,357.42	756,831.91	
10,374.00	35.90	357.30	10,305.88	-700.75	-698.09	296.79	758.56	156.97	618,382.91	756,830.79	
10,421.00	39.30	357.10	10,343.11	-672.10	-669.45	295.39	731.72	156.19	618,411.55	756,829.39	
10,467.00	41.20	358.50	10,378.22	-642.39	-639.75	294.26	704.18	155.30	618,441.25	756,828.26	
10,514.00	44.60	359.70	10,412.64	-610.41	-607.77	293.76	675.04	154.20	618,473.23	756,827.76	
10,562.00	49.50	0.90	10,445.34	-575.29	-572.64	293.96	643.69	152.83	618,508.36	756,827.96	
10,609.00	53.00	0.10	10,474.75	-538.65	-536.00	294.28	611.47	151.23	618,545.00	756,828.28	
10,656.00	54.10	358.20	10,502.68	-500.84	-498.20	293.71	578.33	149.48	618,582.80	756,827.71	
10,703.00	54.30	357.70	10,530.17	-462.74	-460.10	292.35	545.13	147.57	618,620.90	756,826.35	
10,749.00	57.60	357.20	10,555.92	-424.65	-422.03	290.65	512.44	145.45	618,658.97	756,824.65	
10,796.00	61.40	357.20	10,579.77	-384.20	-381.59	288.67	478.48	142.89	618,699.41	756,822.67	
10,843.00	65.40	358.60	10,600.81	-342.20	-339.61	287.14	444.73	139.79	618,741.39	756,821.14	
10,890.00	70.20	358.80	10,618.57	-298.70	-296.11	286.16	411.79	135.98	618,784.89	756,820.16	
10,937.00	74.90	358.80	10,632.66	-253.88	-251.30	285.22	380.13	131.38	618,829.70	756,819.22	
10,984.00	79.30	357.10	10,643.15	-208.09	-205.53	283.57	350.22	125.93	618,875.47	756,817.57	
11,030.00	82.50	356.50	10,650.42	-162.73	-160.18	281.04	323.48	119.68	618,920.82	756,815.04	
11,077.00	86.00	356.90	10,655.13	-116.03	-113.51	278.34	300.60	112.19	618,967.49	756,812.34	
11,124.00	90.00	358.10	10,656.77	-69.09	-66.59	276.30	284.21	103.55	619,014.41	756,810.30	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: ST #1
Design: ST #1 MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)	
11,217.00	92.00	357.40	10,655.15	23.84	26.32	272.65	273.91	84.49	619,107.32	756,806.65	
11,311.00	93.60	356.80	10,650.56	117.65	120.08	267.90	293.58	65.86	619,201.08	756,801.90	
11,404.00	92.60	358.10	10,645.53	210.45	212.85	263.77	338.94	51.10	619,293.85	756,797.77	
11,497.00	93.40	358.10	10,640.66	303.29	305.67	260.69	401.74	40.46	619,386.67	756,794.69	
11,591.00	92.60	359.80	10,635.74	397.16	399.52	258.97	476.11	32.95	619,480.52	756,792.97	
11,685.00	93.60	0.10	10,630.66	491.02	493.39	258.89	557.18	27.69	619,574.39	756,792.89	
11,778.00	91.30	0.50	10,626.68	583.91	586.29	259.37	641.10	23.86	619,667.29	756,793.37	
11,872.00	89.60	1.00	10,625.94	677.88	680.28	260.60	728.49	20.96	619,761.28	756,794.60	
11,965.00	90.80	0.90	10,625.62	770.85	773.26	262.14	816.49	18.73	619,854.26	756,796.14	
12,059.00	90.10	0.90	10,624.88	864.82	867.25	263.62	906.43	16.91	619,948.25	756,797.62	
12,152.00	90.90	0.60	10,624.07	957.79	960.24	264.84	996.09	15.42	620,041.24	756,798.84	
12,245.00	89.30	1.30	10,623.91	1,050.76	1,053.22	266.38	1,086.38	14.19	620,134.22	756,800.38	
12,339.00	90.20	1.00	10,624.32	1,144.72	1,147.20	268.27	1,178.15	13.16	620,228.20	756,802.27	
12,432.00	91.70	0.90	10,622.77	1,237.67	1,240.17	269.81	1,269.18	12.27	620,321.17	756,803.81	
12,526.00	90.30	1.20	10,621.13	1,331.62	1,334.14	271.53	1,361.49	11.50	620,415.14	756,805.53	
12,619.00	89.00	0.40	10,621.70	1,424.59	1,427.12	272.83	1,452.97	10.82	620,508.12	756,806.83	
12,713.00	90.00	359.50	10,622.52	1,518.58	1,521.12	272.75	1,545.38	10.17	620,602.12	756,806.75	
12,806.00	91.70	358.70	10,621.14	1,611.56	1,614.09	271.29	1,636.73	9.54	620,695.09	756,805.29	
12,899.00	89.80	359.60	10,619.93	1,704.55	1,707.07	269.91	1,728.27	8.98	620,788.07	756,803.91	
12,993.00	91.30	359.60	10,619.02	1,798.54	1,801.06	269.25	1,821.07	8.50	620,882.06	756,803.25	
13,086.00	90.00	0.30	10,617.97	1,891.53	1,894.05	269.17	1,913.08	8.09	620,975.05	756,803.17	
13,180.00	91.90	0.10	10,616.41	1,985.51	1,988.03	269.50	2,006.22	7.72	621,069.03	756,803.50	
13,273.00	90.00	0.30	10,614.87	2,078.48	2,081.02	269.82	2,098.43	7.39	621,162.02	756,803.82	
13,366.00	91.30	0.20	10,613.81	2,171.46	2,174.01	270.23	2,190.74	7.09	621,255.01	756,804.23	
13,460.00	93.40	359.70	10,609.96	2,265.38	2,267.92	270.15	2,283.95	6.79	621,348.92	756,804.15	
13,553.00	91.50	359.50	10,605.98	2,358.29	2,360.83	269.50	2,376.16	6.51	621,441.83	756,803.50	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 132H
Project:	Lea County, NM	TVD Reference:	Rig @ 3965.50usft (GL:3937'+KB:28.5')
Site:	Airstrip 31 State Com	MD Reference:	Rig @ 3965.50usft (GL:3937'+KB:28.5')
Well:	132H	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1 MWD	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)	
13,652.00	92.10	358.50	10,602.87	2,457.23	2,459.76	267.77	2,474.30	6.21	621,540.76	756,801.77	
First Survey ST01: 13652' MD											
13,745.00	93.30	354.20	10,598.49	2,549.97	2,552.45	261.86	2,565.85	5.86	621,633.45	756,795.86	
13,838.00	90.70	354.40	10,595.25	2,642.52	2,644.93	252.63	2,656.96	5.46	621,725.93	756,786.63	
13,932.00	91.40	354.20	10,593.52	2,736.12	2,738.44	243.30	2,749.23	5.08	621,819.44	756,777.30	
14,025.00	91.00	356.30	10,591.58	2,828.84	2,831.10	235.60	2,840.88	4.76	621,912.10	756,769.60	
14,120.00	91.70	358.20	10,589.34	2,923.74	2,925.96	231.04	2,935.07	4.51	622,006.96	756,765.04	
14,213.00	92.00	0.00	10,586.33	3,016.69	3,018.89	229.58	3,027.61	4.35	622,099.89	756,763.58	
14,307.00	92.80	359.50	10,582.40	3,110.60	3,112.81	229.17	3,121.23	4.21	622,193.81	756,763.17	
14,400.00	91.20	1.20	10,579.15	3,203.53	3,205.75	229.74	3,213.97	4.10	622,286.75	756,763.74	
14,494.00	92.00	1.40	10,576.53	3,297.44	3,299.68	231.87	3,307.82	4.02	622,380.68	756,765.87	
14,587.00	93.10	0.90	10,572.39	3,390.31	3,392.57	233.74	3,400.61	3.94	622,473.57	756,767.74	
14,681.00	91.60	2.50	10,568.54	3,484.15	3,486.44	236.52	3,494.46	3.88	622,567.44	756,770.52	
14,775.00	93.00	2.50	10,564.76	3,577.95	3,580.28	240.62	3,588.35	3.84	622,661.28	756,774.62	
14,868.00	91.30	2.40	10,561.27	3,670.75	3,673.12	244.59	3,681.26	3.81	622,754.12	756,778.59	
14,962.00	92.00	2.50	10,558.57	3,764.59	3,767.00	248.61	3,775.19	3.78	622,848.00	756,782.61	
15,056.00	93.40	2.30	10,554.14	3,858.36	3,860.81	252.54	3,869.06	3.74	622,941.81	756,786.54	
15,149.00	91.70	2.20	10,550.00	3,951.15	3,953.64	256.19	3,961.93	3.71	623,034.64	756,790.19	
15,243.00	92.50	1.80	10,546.56	4,045.00	4,047.52	259.47	4,055.83	3.67	623,128.52	756,793.47	
Last Survey: 15243' MD, 10546.56' TVD											
15,406.00	92.50	1.80	10,539.45	4,207.71	4,210.28	264.58	4,218.59	3.60	623,291.28	756,798.58	
PTB: 15,406' MD 10,539.5' TVD											



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 132H
Project:	Lea County, NM	TVD Reference:	Rig @ 3965.50usft (GL:3937'+KB:28.5')
Site:	Airstrip 31 State Com	MD Reference:	Rig @ 3965.50usft (GL:3937'+KB:28.5')
Well:	132H	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1 MWD	Database:	WellPlanner1

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
13,652.00	10,602.87	2,459.76	267.77	First Survey ST01: 13652' MD
15,243.00	10,546.56	4,047.52	259.47	Last Survey: 15243' MD, 10546.56' TVD
15,406.00	10,539.45	4,210.28	264.58	PTB: 15,406' MD 10,539.5' TVD



HOBBS OCD

SEP 11 2017

RECEIVED



Airstrip 31-18S-35E RN St. Com #132H(OH)

Lea County, NM 30-025-43816

July 14, 2017

Job No. LNM5141717

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

July 14, 2017



Operator Name: Matador Resources
Well Name: Airstrip 31-18S-35E RN State Com #132H(OH)
County/Parish: Lea County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5141717

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	200' MD – 14,020' MD	14,112' MD	06/10/17 – 06/25/17	MWD

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com



Matador Resources

**Lea County, NM
Airstrip 31 State Com
No. 132H
OH**

Survey: ProDirectional

Survey Report

14 July, 2017





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well 132H
Project:	Lea County, NM	TVD Reference:	Rig @ 3965.50usft (GL:3937'+KB:28.5')
Site:	Airstrip 31 State Com	MD Reference:	Rig @ 3965.50usft (GL:3937'+KB:28.5')
Well:	132H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD	Database:	WellPlanner1

Project	Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Airstrip 31 State Com		
Site Position:		Northing:	618,377.00 usft
From:	Map	Easting:	755,563.00 usft
Position Uncertainty:	1.10 usft	Slot Radius:	13-3/16 "
		Latitude:	32.6972652
		Longitude:	-103.5025866
		Grid Convergence:	0.45 °

Well	132H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.6991792
		Longitude:	-103.4994125
		Ground Level:	3,937.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	5/31/2017	6.68
			Dip Angle
			(°)
			60.73
			Field Strength
			(nT)
			48,300.70

Design	MWD		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
		Direction	(°)
			359.48



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey Program Date 7/14/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.00	3,932.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM
4,058.00	8,640.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HRGM
8,776.00	9,619.00	Survey #3 (OH)	MWD+HDGM	OWSG MWD + HRGM
9,718.00	14,112.00	Survey #4 (OH)	MWD+HDGM	OWSG MWD + HRGM

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	619,081.00	756,534.00
200.00	1.10	42.50	199.99	1.40	1.42	1.30	1.92	42.50	619,082.42	756,535.30
Pro MWD First Survey: 200' MD										
324.00	1.20	34.50	323.96	3.34	3.36	2.84	4.40	40.15	619,084.36	756,536.84
413.00	1.20	35.50	412.94	4.85	4.89	3.91	6.26	38.62	619,085.89	756,537.91
506.00	1.40	34.90	505.92	6.57	6.61	5.12	8.37	37.75	619,087.61	756,539.12
597.00	1.50	29.80	596.89	8.50	8.56	6.35	10.66	36.57	619,089.56	756,540.35
690.00	1.70	35.20	689.85	10.67	10.74	7.75	13.25	35.80	619,091.74	756,541.75
792.00	2.00	37.70	791.80	13.30	13.39	9.71	16.54	35.95	619,094.39	756,543.71
884.00	1.50	51.80	883.76	15.30	15.40	11.64	19.30	37.07	619,096.40	756,545.64
977.00	1.40	97.20	976.73	15.89	16.01	13.72	21.09	40.59	619,097.01	756,547.72
1,070.00	1.50	136.50	1,069.70	14.84	14.99	15.69	21.70	46.31	619,095.99	756,549.69
1,164.00	2.20	172.10	1,163.66	12.16	12.31	16.78	20.81	53.74	619,093.31	756,550.78
1,257.00	3.00	180.90	1,256.56	7.95	8.11	16.99	18.82	64.49	619,089.11	756,550.99
1,351.00	3.20	186.60	1,350.42	2.89	3.04	16.65	16.92	79.65	619,084.04	756,550.65
1,445.00	3.10	187.20	1,444.28	-2.23	-2.09	16.03	16.16	97.42	619,078.91	756,550.03
1,538.00	3.10	187.00	1,537.15	-7.22	-7.08	15.41	16.95	114.67	619,073.92	756,549.41
1,632.00	3.10	186.40	1,631.01	-12.26	-12.13	14.81	19.14	129.30	619,068.87	756,548.81
1,726.00	2.90	186.80	1,724.88	-17.14	-17.01	14.25	22.19	140.05	619,063.99	756,548.25
1,819.00	2.90	189.40	1,817.76	-21.79	-21.67	13.59	25.58	147.91	619,059.33	756,547.59



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)	
1,862.00	3.00	191.90	1,860.70	-23.96	-23.84	13.18	27.24	151.08	619,057.16	756,547.18	
2,006.00	2.80	188.30	2,004.52	-31.12	-31.01	11.89	33.21	159.02	619,049.99	756,545.89	
2,099.00	3.30	170.20	2,097.39	-36.01	-35.90	12.02	37.86	161.49	619,045.10	756,546.02	
2,193.00	3.80	167.60	2,191.21	-41.72	-41.61	13.15	43.63	162.46	619,039.39	756,547.15	
2,286.00	4.30	145.80	2,283.98	-47.64	-47.50	15.77	50.05	161.63	619,033.50	756,549.77	
2,379.00	5.20	137.70	2,376.66	-53.69	-53.50	20.57	57.32	158.97	619,027.50	756,554.57	
2,473.00	5.10	138.10	2,470.28	-60.00	-59.76	26.22	65.26	156.31	619,021.24	756,560.22	
2,566.00	5.10	156.20	2,562.92	-66.90	-66.62	30.65	73.33	155.29	619,014.38	756,564.65	
2,660.00	5.40	162.70	2,656.53	-74.97	-74.67	33.65	81.90	155.74	619,006.33	756,567.65	
2,753.00	5.00	157.30	2,749.14	-82.91	-82.58	36.52	90.30	156.14	618,998.42	756,570.52	
2,847.00	4.50	153.10	2,842.82	-90.01	-89.65	39.77	98.08	156.08	618,991.35	756,573.77	
2,940.00	4.30	146.90	2,935.55	-96.21	-95.83	43.32	105.16	155.67	618,985.17	756,577.32	
3,034.00	5.10	147.40	3,029.23	-102.72	-102.30	47.50	112.79	155.09	618,978.70	756,581.50	
3,127.00	6.40	150.70	3,121.76	-110.77	-110.30	52.26	122.06	154.65	618,970.70	756,586.26	
3,220.00	6.10	145.80	3,214.21	-119.42	-118.91	57.58	132.11	154.16	618,962.09	756,591.58	
3,314.00	5.40	143.60	3,307.74	-127.16	-126.60	63.01	141.41	153.54	618,954.40	756,597.01	
3,407.00	4.80	144.00	3,400.37	-133.88	-133.27	67.89	149.57	153.00	618,947.73	756,601.89	
3,501.00	4.00	144.10	3,494.09	-139.75	-139.11	72.13	156.69	152.59	618,941.89	756,606.13	
3,594.00	4.40	147.60	3,586.84	-145.43	-144.75	75.94	163.46	152.32	618,936.25	756,609.94	
3,688.00	5.80	147.60	3,680.46	-152.52	-151.80	80.42	171.79	152.09	618,929.20	756,614.42	
3,781.00	5.10	147.70	3,773.04	-160.03	-159.26	85.14	180.59	151.87	618,921.74	756,619.14	
3,875.00	5.00	149.60	3,866.68	-167.13	-166.33	89.45	188.85	151.73	618,914.67	756,623.45	
3,932.00	4.60	150.50	3,923.48	-171.29	-170.46	91.83	193.62	151.69	618,910.54	756,625.83	
4,058.00	3.70	149.10	4,049.15	-179.21	-178.35	96.41	202.74	151.61	618,902.65	756,630.41	
4,152.00	3.10	143.90	4,142.98	-183.90	-183.00	99.46	208.28	151.48	618,898.00	756,633.46	
4,245.00	4.30	165.00	4,235.79	-189.32	-188.40	101.85	214.17	151.60	618,892.60	756,635.85	
4,339.00	4.80	166.30	4,329.49	-196.56	-195.63	103.69	221.41	152.07	618,885.37	756,637.69	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)	
4,433.00	5.50	164.00	4,423.11	-204.73	-203.78	105.86	229.64	152.55	618,877.22	756,639.86	
4,526.00	5.70	158.90	4,515.67	-213.35	-212.37	108.76	238.60	152.88	618,868.63	756,642.76	
4,620.00	6.20	164.90	4,609.16	-222.63	-221.63	111.76	248.21	153.24	618,859.37	756,645.76	
4,713.00	6.80	167.60	4,701.57	-232.88	-231.85	114.25	258.47	153.77	618,849.15	756,648.25	
4,807.00	6.00	167.50	4,794.98	-243.13	-242.08	116.51	268.66	154.30	618,838.92	756,650.51	
4,900.00	7.10	166.50	4,887.37	-253.49	-252.42	118.90	279.02	154.78	618,828.58	756,652.90	
4,995.00	9.00	164.20	4,981.43	-266.38	-265.28	122.30	292.11	155.25	618,815.72	756,656.30	
5,088.00	9.10	162.30	5,073.27	-280.42	-279.28	126.51	306.60	155.63	618,801.72	756,660.51	
5,182.00	8.40	164.10	5,166.18	-294.14	-292.97	130.65	320.78	155.96	618,788.03	756,664.65	
5,275.00	7.60	163.30	5,258.27	-306.60	-305.39	134.28	333.61	156.26	618,775.61	756,668.28	
5,369.00	7.40	163.20	5,351.47	-318.38	-317.14	137.82	345.79	156.51	618,763.86	756,671.82	
5,556.00	6.50	163.80	5,537.09	-340.13	-338.83	144.25	368.26	156.94	618,742.17	756,678.25	
5,650.00	7.70	160.80	5,630.37	-351.22	-349.89	147.81	379.83	157.10	618,731.11	756,681.81	
5,743.00	8.60	158.00	5,722.43	-363.59	-362.22	152.46	393.00	157.17	618,718.78	756,686.46	
5,837.00	8.20	158.90	5,815.42	-376.41	-374.99	157.51	406.73	157.22	618,706.01	756,691.51	
5,930.00	7.60	156.40	5,907.54	-388.27	-386.82	162.36	419.51	157.23	618,694.18	756,696.36	
6,024.00	7.10	155.10	6,000.77	-399.28	-397.78	167.29	431.53	157.19	618,683.22	756,701.29	
6,117.00	8.80	161.50	6,092.87	-411.29	-409.74	171.97	444.37	157.23	618,671.26	756,705.97	
6,211.00	9.30	161.50	6,185.70	-425.35	-423.76	176.66	459.11	157.37	618,657.24	756,710.66	
6,304.00	8.60	161.30	6,277.57	-439.10	-437.48	181.27	473.55	157.49	618,643.52	756,715.27	
6,398.00	7.80	156.20	6,370.61	-451.64	-449.97	186.10	486.94	157.53	618,631.03	756,720.10	
6,491.00	6.80	153.40	6,462.85	-462.38	-460.67	191.11	498.74	157.47	618,620.33	756,725.11	
6,585.00	6.50	151.00	6,556.22	-472.06	-470.30	196.18	509.58	157.36	618,610.70	756,730.18	
6,678.00	7.80	158.10	6,648.50	-482.56	-480.76	201.09	521.12	157.30	618,600.24	756,735.09	
6,772.00	8.10	158.50	6,741.59	-494.69	-492.84	205.90	534.12	157.33	618,588.16	756,739.90	
6,865.00	7.50	157.60	6,833.73	-506.44	-504.55	210.61	546.74	157.34	618,576.45	756,744.61	
6,958.00	7.00	156.70	6,925.99	-517.29	-515.36	215.17	558.47	157.34	618,565.64	756,749.17	



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)	
7,052.00	8.80	158.50	7,019.09	-529.29	-527.31	220.07	571.39	157.35	618,553.69	756,754.07	
7,146.00	9.10	160.50	7,111.95	-543.03	-541.01	225.18	586.00	157.40	618,539.99	756,759.18	
7,239.00	8.30	161.70	7,203.88	-556.38	-554.32	229.75	600.04	157.49	618,526.68	756,763.75	
7,332.00	6.60	160.00	7,296.09	-567.81	-565.71	233.68	612.08	157.56	618,515.29	756,767.68	
7,426.00	5.10	157.40	7,389.60	-576.77	-574.65	237.14	621.65	157.58	618,506.35	756,771.14	
7,519.00	6.40	161.20	7,482.13	-585.53	-583.37	240.39	630.96	157.60	618,497.63	756,774.39	
7,613.00	5.50	159.90	7,575.62	-594.75	-592.56	243.63	640.69	157.65	618,488.44	756,777.63	
7,706.00	6.10	158.30	7,668.15	-603.55	-601.34	246.99	650.08	157.67	618,479.66	756,780.99	
7,799.00	5.40	154.20	7,760.68	-612.12	-609.87	250.72	659.39	157.65	618,471.13	756,784.72	
7,893.00	6.80	147.30	7,854.14	-620.83	-618.53	255.65	669.28	157.54	618,462.47	756,789.65	
7,986.00	7.00	154.00	7,946.47	-630.60	-628.26	261.11	680.36	157.43	618,452.74	756,795.11	
8,080.00	5.60	150.80	8,039.90	-639.80	-637.41	265.86	690.63	157.36	618,443.59	756,799.86	
8,173.00	6.60	163.30	8,132.38	-648.91	-646.49	269.61	700.46	157.36	618,434.51	756,803.61	
8,266.00	7.80	162.70	8,224.64	-660.09	-657.64	273.02	712.06	157.45	618,423.36	756,807.02	
8,360.00	6.30	157.40	8,317.93	-670.98	-668.49	276.90	723.57	157.50	618,412.51	756,810.90	
8,453.00	5.10	152.00	8,410.47	-679.37	-676.85	280.80	732.79	157.47	618,404.15	756,814.80	
8,546.00	5.50	168.90	8,503.08	-687.42	-684.87	283.60	741.27	157.51	618,396.13	756,817.60	
8,640.00	8.20	178.90	8,596.40	-698.55	-696.00	284.60	751.94	157.76	618,385.00	756,818.60	
8,776.00	8.60	175.50	8,730.94	-718.40	-715.83	285.58	770.70	158.25	618,365.17	756,819.58	
8,870.00	7.80	170.10	8,823.98	-731.70	-729.12	287.23	783.66	158.50	618,351.88	756,821.23	
8,964.00	6.90	164.40	8,917.21	-743.45	-740.85	289.85	795.53	158.63	618,340.15	756,823.85	
9,058.00	6.60	159.80	9,010.56	-753.99	-751.36	293.23	806.55	158.68	618,329.64	756,827.23	
9,151.00	5.80	155.80	9,103.02	-763.32	-760.66	297.00	816.58	158.67	618,320.34	756,831.00	
9,245.00	5.00	147.60	9,196.60	-771.15	-768.45	301.14	825.35	158.60	618,312.55	756,835.14	
9,338.00	4.80	146.10	9,289.26	-777.84	-775.10	305.49	833.13	158.49	618,305.90	756,839.49	
9,432.00	4.30	138.90	9,382.96	-783.80	-781.02	310.00	840.29	158.35	618,299.98	756,844.00	
9,526.00	2.10	181.30	9,476.82	-788.20	-785.40	312.27	845.20	158.32	618,295.60	756,846.27	



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)	
9,619.00	3.10	237.10	9,569.74	-791.25	-788.47	310.12	847.27	158.53	618,292.53	756,844.12	
9,718.00	3.20	239.90	9,668.59	-794.05	-791.31	305.49	848.23	158.89	618,289.69	756,839.49	
9,811.00	2.30	250.70	9,761.48	-795.93	-793.23	301.48	848.59	159.19	618,287.77	756,835.48	
9,905.00	1.80	346.50	9,855.44	-795.10	-792.41	299.35	847.07	159.30	618,288.59	756,833.35	
9,998.00	1.50	358.30	9,948.40	-792.46	-789.78	298.98	844.47	159.27	618,291.22	756,832.98	
10,093.00	2.20	354.30	10,043.35	-789.40	-786.72	298.76	841.54	159.21	618,294.28	756,832.76	
10,186.00	13.30	357.30	10,135.36	-776.89	-774.22	298.07	829.62	158.94	618,306.78	756,832.07	
10,233.00	18.30	1.30	10,180.57	-764.11	-761.43	297.99	817.67	158.63	618,319.57	756,831.99	
10,280.00	23.50	0.70	10,224.47	-747.35	-744.68	298.27	802.19	158.17	618,336.32	756,832.27	
10,327.00	29.90	357.70	10,266.43	-726.25	-723.58	297.91	782.51	157.62	618,357.42	756,831.91	
10,374.00	35.90	357.30	10,305.88	-700.75	-698.09	296.79	758.56	156.97	618,382.91	756,830.79	
10,421.00	39.30	357.10	10,343.11	-672.10	-669.45	295.39	731.72	156.19	618,411.55	756,829.39	
10,467.00	41.20	358.50	10,378.22	-642.39	-639.75	294.26	704.18	155.30	618,441.25	756,828.26	
10,514.00	44.60	359.70	10,412.64	-610.41	-607.77	293.76	675.04	154.20	618,473.23	756,827.76	
10,562.00	49.50	0.90	10,445.34	-575.29	-572.64	293.96	643.69	152.83	618,508.36	756,827.96	
10,609.00	53.00	0.10	10,474.75	-538.65	-536.00	294.28	611.47	151.23	618,545.00	756,828.28	
10,656.00	54.10	358.20	10,502.68	-500.84	-498.20	293.71	578.33	149.48	618,582.80	756,827.71	
10,703.00	54.30	357.70	10,530.17	-462.74	-460.10	292.35	545.13	147.57	618,620.90	756,826.35	
10,749.00	57.60	357.20	10,555.92	-424.65	-422.03	290.65	512.44	145.45	618,658.97	756,824.65	
10,796.00	61.40	357.20	10,579.77	-384.20	-381.59	288.67	478.48	142.89	618,699.41	756,822.67	
10,843.00	65.40	358.60	10,600.81	-342.20	-339.61	287.14	444.73	139.79	618,741.39	756,821.14	
10,890.00	70.20	358.80	10,618.57	-298.70	-296.11	286.16	411.79	135.98	618,784.89	756,820.16	
10,937.00	74.90	358.80	10,632.66	-253.88	-251.30	285.22	380.13	131.38	618,829.70	756,819.22	
10,984.00	79.30	357.10	10,643.15	-208.09	-205.53	283.57	350.22	125.93	618,875.47	756,817.57	
11,030.00	82.50	356.50	10,650.42	-162.73	-160.18	281.04	323.48	119.68	618,920.82	756,815.04	
11,077.00	86.00	356.90	10,655.13	-116.03	-113.51	278.34	300.60	112.19	618,967.49	756,812.34	
11,124.00	90.00	358.10	10,656.77	-69.09	-66.59	276.30	284.21	103.55	619,014.41	756,810.30	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)
11,217.00	92.00	357.40	10,655.15	23.84	26.32	272.65	273.91	84.49	619,107.32	756,806.65
11,311.00	93.60	356.80	10,650.56	117.65	120.08	267.90	293.58	65.86	619,201.08	756,801.90
11,404.00	92.60	358.10	10,645.53	210.45	212.85	263.77	338.94	51.10	619,293.85	756,797.77
11,497.00	93.40	358.10	10,640.66	303.29	305.67	260.69	401.74	40.46	619,386.67	756,794.69
11,591.00	92.60	359.80	10,635.74	397.16	399.52	258.97	476.11	32.95	619,480.52	756,792.97
11,685.00	93.60	0.10	10,630.66	491.02	493.39	258.89	557.18	27.69	619,574.39	756,792.89
11,778.00	91.30	0.50	10,626.68	583.91	586.29	259.37	641.10	23.86	619,667.29	756,793.37
11,872.00	89.60	1.00	10,625.94	677.88	680.28	260.60	728.49	20.96	619,761.28	756,794.60
11,965.00	90.80	0.90	10,625.62	770.85	773.26	262.14	816.49	18.73	619,854.26	756,796.14
12,059.00	90.10	0.90	10,624.88	864.82	867.25	263.62	906.43	16.91	619,948.25	756,797.62
12,152.00	90.90	0.60	10,624.07	957.79	960.24	264.84	996.09	15.42	620,041.24	756,798.84
12,245.00	89.30	1.30	10,623.91	1,050.76	1,053.22	266.38	1,086.38	14.19	620,134.22	756,800.38
12,339.00	90.20	1.00	10,624.32	1,144.72	1,147.20	268.27	1,178.15	13.16	620,228.20	756,802.27
12,432.00	91.70	0.90	10,622.77	1,237.67	1,240.17	269.81	1,269.18	12.27	620,321.17	756,803.81
12,526.00	90.30	1.20	10,621.13	1,331.62	1,334.14	271.53	1,361.49	11.50	620,415.14	756,805.53
12,619.00	89.00	0.40	10,621.70	1,424.59	1,427.12	272.83	1,452.97	10.82	620,508.12	756,806.83
12,713.00	90.00	359.50	10,622.52	1,518.58	1,521.12	272.75	1,545.38	10.17	620,602.12	756,806.75
12,806.00	91.70	358.70	10,621.14	1,611.56	1,614.09	271.29	1,636.73	9.54	620,695.09	756,805.29
12,899.00	89.80	359.60	10,619.93	1,704.55	1,707.07	269.91	1,728.27	8.98	620,788.07	756,803.91
12,993.00	91.30	359.60	10,619.02	1,798.54	1,801.06	269.25	1,821.07	8.50	620,882.06	756,803.25
13,086.00	90.00	0.30	10,617.97	1,891.53	1,894.05	269.17	1,913.08	8.09	620,975.05	756,803.17
13,180.00	91.90	0.10	10,616.41	1,985.51	1,988.03	269.50	2,006.22	7.72	621,069.03	756,803.50
13,273.00	90.00	0.30	10,614.87	2,078.48	2,081.02	269.82	2,098.43	7.39	621,162.02	756,803.82
13,366.00	91.30	0.20	10,613.81	2,171.46	2,174.01	270.23	2,190.74	7.09	621,255.01	756,804.23
13,460.00	93.40	359.70	10,609.96	2,265.38	2,267.92	270.15	2,283.95	6.79	621,348.92	756,804.15
13,553.00	91.50	359.50	10,605.98	2,358.29	2,360.83	269.50	2,376.16	6.51	621,441.83	756,803.50
13,647.00	93.10	359.40	10,602.21	2,452.21	2,454.75	268.60	2,469.40	6.24	621,535.75	756,802.60



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Airstrip 31 State Com
Well: 132H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well 132H
TVD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
MD Reference: Rig @ 3965.50usft (GL:3937'+KB:28.5')
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)	
13,740.00	91.80	358.90	10,598.24	2,545.12	2,547.65	267.22	2,561.63	5.99	621,628.65	756,801.22	
13,833.00	93.30	358.80	10,594.10	2,638.02	2,640.54	265.35	2,653.84	5.74	621,721.54	756,799.35	
13,927.00	92.40	359.20	10,589.42	2,731.90	2,734.40	263.72	2,747.09	5.51	621,815.40	756,797.72	
14,020.00	91.50	1.00	10,586.26	2,824.83	2,827.35	263.88	2,839.63	5.33	621,908.35	756,797.88	
Last Survey: 14,020' MD, 10586.26' TVD											
14,112.00	91.50	1.00	10,583.85	2,916.77	2,919.30	265.48	2,931.35	5.20	622,000.30	756,799.48	
PTB: 14,112' MD 10,583.9' TVD											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
+N/-S (usft)	+E/-W (usft)			
200.00	199.99	1.42	1.30	Pro MWD First Survey: 200' MD
14,020.00	10,586.26	2,827.35	263.88	Last Survey: 14,020' MD, 10586.26' TVD
14,112.00	10,583.85	2,919.30	265.48	PTB: 14,112' MD 10,583.9' TVD