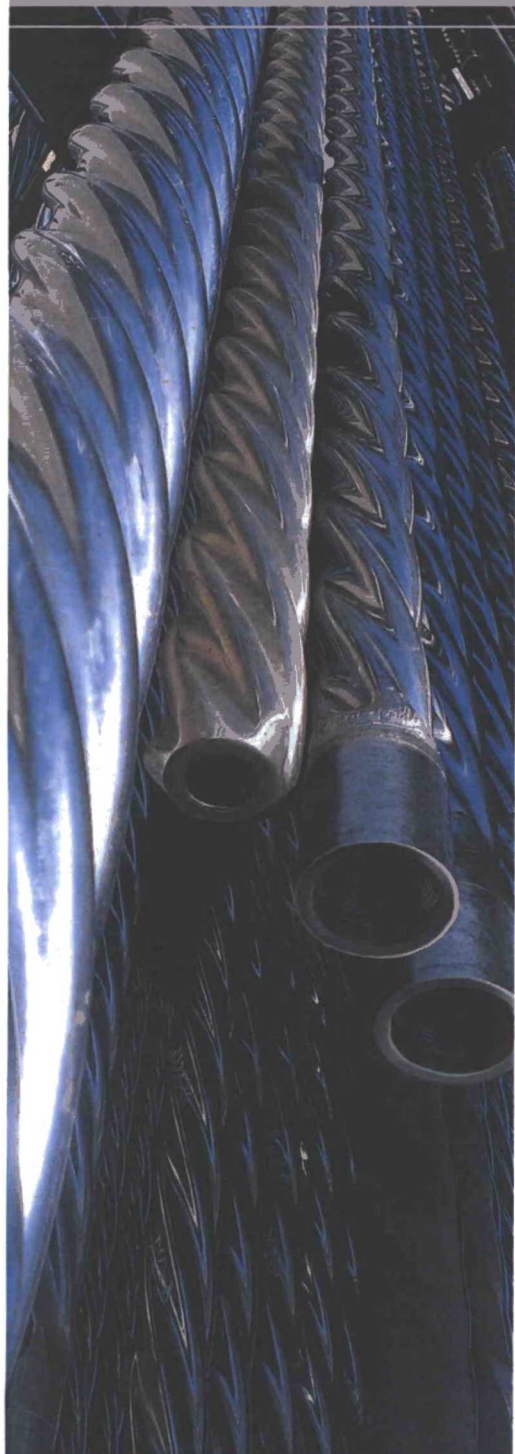




ProDirectional



HOBBS OCD

MAR 29 2017

RECEIVED

Eland 32-18S-33E RN State Com #124H

Lea County, NM

February 01, 2017

Job No. LNM5129416

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

February 01, 2017



Operator Name: Matador Resources
Well Name: Eland 32-18S-33E RN State Com #124H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5129416

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	199' MD – 14,474' MD	14,538' MD	12/20/16 – 01/23/17	MWD-OWSG

Sincerely,

Mike Coats
Well Planning
Professional Directional

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



Matador Resources

Lea County, NM

Eland 32 State Com

No. 124H

OH

Survey: ProDirectional

Survey Report

23 January, 2017





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 124H
Project:	Lea County, NM	TVD Reference:	Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
Site:	Eland 32 State Com	MD Reference:	Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
Well:	No. 124H	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	Eland 32 State Com		
Site Position:		Northing:	618,212.00 usft
From:	Map	Easting:	700,988.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 52.300 N
		Longitude:	103° 40' 47.939 W
		Grid Convergence:	0.35 °

Well	No. 124H					
Well Position	+N-S	0.00 usft	Northing:	618,212.00 usft	Latitude:	32° 41' 52.299 N
	+E-W	0.00 usft	Easting:	701,018.00 usft	Longitude:	103° 40' 47.588 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,729.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/31/2016	6.97	60.75	48,481.20

Design		MWD		
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	359.61

Survey Program		Date 1/23/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
199.00	14,538.00	Survey #1 (OH)	MWD - OWSG	MWD - OWSG



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Eland 32 State Com
Well: No. 124H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference: Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
MD Reference: Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	618,212.00	701,018.00
199.00	0.10	285.10	199.00	0.05	0.05	-0.17	0.17	285.10	618,212.05	701,017.83
Pro MWD First Survey: 199' MD										
329.00	0.30	311.30	329.00	0.30	0.30	-0.53	0.61	299.33	618,212.30	701,017.47
392.00	0.30	325.60	392.00	0.55	0.54	-0.75	0.93	305.97	618,212.54	701,017.25
486.00	1.00	108.70	485.99	0.49	0.48	-0.11	0.50	346.98	618,212.48	701,017.89
581.00	2.10	121.00	580.96	-0.69	-0.68	2.17	2.27	107.38	618,211.32	701,020.17
673.00	3.20	121.70	672.86	-2.93	-2.90	5.79	6.48	116.55	618,209.10	701,023.79
766.00	3.80	118.80	765.68	-5.82	-5.74	10.70	12.15	118.22	618,206.26	701,028.70
859.00	4.10	114.50	858.46	-8.72	-8.61	16.43	18.55	117.65	618,203.39	701,034.43
952.00	4.20	113.00	951.22	-11.47	-11.32	22.59	25.27	116.61	618,200.68	701,040.59
1,047.00	4.70	110.20	1,045.93	-14.22	-14.02	29.44	32.61	115.46	618,197.98	701,047.44
1,141.00	4.20	110.60	1,139.65	-16.81	-16.56	36.28	39.88	114.53	618,195.44	701,054.28
1,235.00	3.60	108.30	1,233.43	-18.99	-18.70	42.31	46.25	113.85	618,193.30	701,060.31
1,329.00	3.40	98.40	1,327.26	-20.36	-20.03	47.86	51.89	112.71	618,191.97	701,065.86
1,433.00	3.10	97.20	1,431.09	-21.20	-20.84	53.71	57.61	111.20	618,191.16	701,071.71
1,605.00	2.20	88.30	1,602.90	-21.74	-21.32	61.62	65.20	109.09	618,190.68	701,079.62
1,698.00	3.20	93.10	1,695.80	-21.86	-21.41	66.00	69.38	107.97	618,190.59	701,084.00
1,791.00	5.50	103.50	1,788.53	-23.08	-22.59	72.92	76.34	107.21	618,189.41	701,090.92
1,885.00	8.30	111.70	1,881.84	-26.72	-26.15	83.61	87.60	107.37	618,185.85	701,101.61
1,979.00	9.50	115.20	1,974.71	-32.62	-31.96	96.93	102.07	108.25	618,180.04	701,114.93
2,072.00	9.50	114.40	2,066.43	-39.15	-38.40	110.87	117.33	109.10	618,173.60	701,128.87
2,166.00	9.50	114.30	2,159.14	-45.65	-44.80	125.00	132.79	109.72	618,167.20	701,143.00
2,260.00	9.50	115.40	2,251.85	-52.26	-51.32	139.08	148.24	110.25	618,160.68	701,157.08
2,353.00	9.60	114.50	2,343.56	-58.86	-57.82	153.07	163.63	110.69	618,154.18	701,171.07
2,447.00	9.70	113.90	2,436.23	-65.42	-64.28	167.44	179.36	111.00	618,147.72	701,185.44
2,540.00	10.00	112.00	2,527.86	-71.72	-70.48	182.09	195.25	111.16	618,141.52	701,200.09



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 124H
Project:	Lea County, NM	TVD Reference:	Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
Site:	Eland 32 State Com	MD Reference:	Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
Well:	No. 124H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	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)
2,634.00	9.90	114.00	2,620.45	-78.17	-76.83	197.04	211.49	111.30	618,135.17	701,215.04
2,727.00	9.60	118.90	2,712.11	-85.26	-83.83	211.13	227.16	111.65	618,128.17	701,229.13
2,821.00	9.80	119.10	2,804.76	-93.03	-91.50	224.98	242.88	112.13	618,120.50	701,242.98
2,914.00	9.20	121.20	2,896.49	-100.82	-99.20	238.26	258.09	112.61	618,112.80	701,256.26
3,008.00	7.30	124.60	2,989.51	-108.19	-106.49	249.60	271.37	113.10	618,105.51	701,267.60
3,101.00	6.20	124.30	3,081.87	-114.43	-112.67	258.62	282.09	113.54	618,099.33	701,276.62
3,195.00	5.70	122.20	3,175.36	-119.84	-118.02	266.76	291.70	113.87	618,093.98	701,284.76
3,288.00	5.40	121.70	3,267.92	-124.65	-122.78	274.39	300.61	114.11	618,089.22	701,292.39
3,382.00	4.90	122.00	3,361.54	-129.15	-127.23	281.56	308.97	114.32	618,084.77	701,299.56
3,475.00	4.50	121.50	3,454.23	-133.20	-131.25	288.04	316.53	114.50	618,080.75	701,306.04
3,569.00	5.20	121.80	3,547.89	-137.42	-135.42	294.80	324.42	114.67	618,076.58	701,312.80
3,663.00	5.90	121.10	3,641.45	-142.21	-140.16	302.56	333.45	114.86	618,071.84	701,320.56
3,756.00	5.50	121.50	3,733.99	-147.06	-144.96	310.45	342.63	115.03	618,067.04	701,328.45
3,849.00	5.20	121.10	3,826.59	-151.62	-149.46	317.86	351.25	115.18	618,062.54	701,335.86
3,943.00	6.10	122.80	3,920.13	-156.58	-154.37	325.71	360.44	115.36	618,057.63	701,343.71
4,036.00	7.10	121.90	4,012.51	-162.36	-160.08	334.74	371.05	115.56	618,051.92	701,352.74
4,130.00	6.90	121.50	4,105.81	-168.44	-166.10	344.49	382.44	115.74	618,045.90	701,362.49
4,224.00	6.50	122.90	4,199.17	-174.35	-171.94	353.77	393.34	115.92	618,040.06	701,371.77
4,317.00	6.20	122.70	4,291.60	-179.98	-177.51	362.41	403.55	116.10	618,034.49	701,380.41
4,410.00	6.00	122.60	4,384.07	-185.36	-182.85	370.73	413.37	116.25	618,029.15	701,388.73
4,503.00	5.70	123.80	4,476.59	-190.61	-188.03	378.67	422.78	116.41	618,023.97	701,396.67
4,597.00	5.90	120.30	4,570.11	-195.70	-193.07	386.72	432.23	116.53	618,018.93	701,404.72
4,690.00	6.60	116.00	4,662.55	-200.51	-197.82	395.65	442.35	116.56	618,014.18	701,413.65
4,784.00	6.40	116.10	4,755.95	-205.25	-202.49	405.21	452.99	116.55	618,009.51	701,423.21
4,878.00	6.30	116.20	4,849.37	-209.89	-207.08	414.54	463.38	116.54	618,004.92	701,432.54
4,971.00	5.90	116.80	4,941.85	-214.36	-211.48	423.39	473.27	116.54	618,000.52	701,441.39
5,065.00	5.70	117.70	5,035.37	-218.77	-215.83	431.83	482.76	116.56	617,996.17	701,449.83



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Eland 32 State Com
Well: No. 124H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well No. 124H
Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
Grid
Minimum Curvature
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)	
5,159.00	5.50	119.00	5,128.92	-223.18	-220.19	439.90	491.93	116.59	617,991.81	701,457.90	
5,252.00	5.40	119.00	5,221.50	-227.51	-224.47	447.63	500.76	116.63	617,987.53	701,465.63	
5,346.00	5.20	119.90	5,315.09	-231.83	-228.74	455.19	509.43	116.68	617,983.26	701,473.19	
5,440.00	4.80	114.80	5,408.74	-235.65	-232.51	462.45	517.61	116.69	617,979.49	701,480.45	
5,557.00	4.00	108.10	5,525.39	-239.03	-235.83	470.78	526.54	116.61	617,976.17	701,488.78	
5,654.00	3.70	102.80	5,622.17	-240.82	-237.58	477.04	532.93	116.47	617,974.42	701,495.04	
5,748.00	6.10	113.10	5,715.82	-243.50	-240.21	484.60	540.86	116.37	617,971.79	701,502.60	
5,842.00	6.60	112.00	5,809.25	-247.55	-244.19	494.20	551.24	116.29	617,967.81	701,512.20	
5,935.00	6.10	112.50	5,901.68	-251.51	-248.08	503.72	561.50	116.22	617,963.92	701,521.72	
6,028.00	5.50	110.90	5,994.20	-255.05	-251.56	512.45	570.87	116.15	617,960.44	701,530.45	
6,122.00	7.70	113.20	6,087.57	-259.20	-255.65	522.45	581.64	116.07	617,956.35	701,540.45	
6,215.00	8.40	114.90	6,179.65	-264.60	-260.97	534.33	594.66	116.03	617,951.03	701,552.33	
6,308.00	7.90	116.80	6,271.72	-270.42	-266.71	546.20	607.84	116.03	617,945.29	701,564.20	
6,401.00	7.50	115.60	6,363.88	-276.00	-272.21	557.38	620.30	116.03	617,939.79	701,575.38	
6,495.00	7.00	114.70	6,457.12	-281.12	-277.26	568.12	632.16	116.01	617,934.74	701,586.12	
6,589.00	6.80	114.50	6,550.44	-285.89	-281.96	578.38	643.45	115.99	617,930.04	701,596.38	
6,682.00	6.20	116.50	6,642.85	-290.48	-286.48	587.89	653.98	115.98	617,925.52	701,605.89	
6,776.00	5.80	114.90	6,736.33	-294.80	-290.75	596.74	663.80	115.98	617,921.25	701,614.74	
6,869.00	5.40	112.90	6,828.89	-298.54	-294.43	605.03	672.87	115.95	617,917.57	701,623.03	
6,963.00	6.60	123.10	6,922.37	-303.27	-299.10	613.63	682.65	115.99	617,912.90	701,631.63	
7,057.00	6.90	124.10	7,015.72	-309.45	-305.22	622.83	693.60	116.11	617,906.78	701,640.83	
7,150.00	6.30	124.70	7,108.10	-315.55	-311.25	631.65	704.18	116.23	617,900.75	701,649.65	
7,244.00	5.60	123.50	7,201.60	-321.07	-316.72	639.72	713.83	116.34	617,895.28	701,657.72	
7,337.00	5.20	120.90	7,294.18	-325.79	-321.39	647.12	722.53	116.41	617,890.61	701,665.12	
7,431.00	4.80	120.20	7,387.83	-330.00	-325.56	654.17	730.70	116.46	617,886.44	701,672.17	
7,525.00	4.20	119.30	7,481.54	-333.71	-329.22	660.57	738.07	116.49	617,882.78	701,678.57	
7,618.00	3.80	116.80	7,574.31	-336.80	-332.27	666.30	744.55	116.50	617,879.73	701,684.30	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 124H
Project:	Lea County, NM	TVD Reference:	Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
Site:	Eland 32 State Com	MD Reference:	Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
Well:	No. 124H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	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)	
7,712.00	5.90	121.90	7,667.97	-340.81	-336.23	673.18	752.48	116.54	617,875.77	701,691.18	
7,806.00	6.50	119.30	7,761.42	-346.02	-341.39	681.92	762.60	116.59	617,870.61	701,699.92	
7,899.00	5.40	113.60	7,853.92	-350.41	-345.72	690.52	772.23	116.60	617,866.28	701,708.52	
7,993.00	4.80	109.80	7,947.54	-353.57	-348.82	698.27	780.55	116.54	617,863.18	701,716.27	
8,086.00	4.40	110.30	8,040.24	-356.17	-351.38	705.28	787.96	116.48	617,860.62	701,723.28	
8,180.00	3.80	111.00	8,134.00	-358.58	-353.74	711.57	794.65	116.43	617,858.26	701,729.57	
8,274.00	3.60	110.20	8,227.81	-360.75	-355.88	717.25	800.68	116.39	617,856.12	701,735.25	
8,386.00	5.60	115.10	8,339.44	-364.34	-359.41	725.50	809.64	116.35	617,852.59	701,743.50	
8,479.00	6.00	115.10	8,431.97	-368.39	-363.40	734.01	819.04	116.34	617,848.60	701,752.01	
8,572.00	5.40	111.50	8,524.51	-372.11	-367.06	742.48	828.26	116.31	617,844.94	701,760.48	
8,666.00	5.10	110.60	8,618.11	-375.25	-370.15	750.51	836.83	116.25	617,841.85	701,768.51	
8,759.00	4.70	109.20	8,710.77	-378.01	-372.86	757.98	844.72	116.19	617,839.14	701,775.98	
8,852.00	4.00	109.10	8,803.50	-380.37	-375.18	764.64	851.72	116.14	617,836.82	701,782.64	
8,945.00	3.60	109.10	8,896.30	-382.43	-377.19	770.46	857.84	116.08	617,834.81	701,788.46	
9,039.00	1.70	72.20	8,990.20	-383.00	-377.73	774.58	861.78	116.00	617,834.27	701,792.58	
9,133.00	1.90	55.80	9,084.15	-381.71	-376.43	777.20	863.56	115.84	617,835.57	701,795.20	
9,226.00	6.00	24.10	9,176.92	-376.43	-371.12	780.46	864.20	115.43	617,840.88	701,798.46	
9,273.00	11.20	23.40	9,223.38	-370.01	-364.69	783.28	864.01	114.97	617,847.31	701,801.28	
9,320.00	14.60	24.20	9,269.18	-360.45	-355.09	787.52	863.87	114.27	617,856.91	701,805.52	
9,367.00	18.30	24.20	9,314.25	-348.35	-342.96	792.97	863.96	113.39	617,869.04	701,810.97	
9,414.00	21.10	23.10	9,358.50	-333.87	-328.44	799.32	864.17	112.34	617,883.56	701,817.32	
9,445.00	24.60	22.50	9,387.06	-322.81	-317.34	803.98	864.34	111.54	617,894.66	701,821.98	
9,476.00	27.90	20.90	9,414.86	-310.10	-304.60	809.04	864.48	110.63	617,907.40	701,827.04	
9,507.00	30.80	18.00	9,441.88	-295.81	-290.28	814.08	864.28	109.62	617,921.72	701,832.08	
9,554.00	34.40	10.70	9,481.48	-271.35	-265.77	820.27	862.25	107.95	617,946.23	701,838.27	
9,601.00	36.80	4.60	9,519.71	-244.28	-238.68	823.86	857.74	106.16	617,973.32	701,841.86	
9,648.00	38.50	3.70	9,556.92	-215.66	-210.05	825.93	852.22	104.27	618,001.95	701,843.93	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Eland 32 State Com
Well: No. 124H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
MD Reference: Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
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)
9,695.00	41.30	3.00	9,592.97	-185.58	-179.95	827.69	847.03	102.27	618,032.05	701,845.69
9,742.00	46.50	3.70	9,626.83	-153.07	-147.43	829.60	842.60	100.08	618,064.57	701,847.60
9,767.00	48.56	3.98	9,643.71	-134.68	-129.03	830.84	840.80	98.83	618,082.97	701,848.84
HL Xing: 9767' MD										
9,788.00	50.30	4.20	9,657.36	-118.78	-113.12	831.98	839.63	97.74	618,098.88	701,849.98
9,835.00	53.30	5.00	9,686.42	-81.99	-76.31	834.94	838.42	95.22	618,135.69	701,852.94
9,881.00	58.00	3.50	9,712.37	-44.15	-38.45	837.74	838.63	92.63	618,173.55	701,855.74
9,928.00	62.10	2.80	9,735.83	-3.51	2.21	839.98	839.98	89.85	618,214.21	701,857.98
9,975.00	66.20	1.80	9,756.32	38.73	44.46	841.67	842.84	86.98	618,256.46	701,859.67
10,022.00	70.60	1.20	9,773.62	82.40	88.13	842.81	847.40	84.03	618,300.13	701,860.81
10,069.00	76.60	359.90	9,786.88	127.46	133.20	843.23	853.69	81.02	618,345.20	701,861.23
10,116.00	83.30	358.90	9,795.08	173.71	179.45	842.74	861.64	77.98	618,391.45	701,860.74
10,162.00	87.40	358.90	9,798.81	219.54	225.28	841.86	871.48	75.02	618,437.28	701,859.86
10,262.00	89.90	358.80	9,801.17	319.50	325.22	839.86	900.63	68.83	618,537.22	701,857.86
10,355.00	91.80	357.30	9,799.79	412.45	418.15	836.69	935.36	63.45	618,630.15	701,854.69
10,449.00	93.00	356.90	9,795.85	506.27	511.95	831.94	976.84	58.39	618,723.95	701,849.94
10,543.00	94.30	356.60	9,789.87	599.96	605.60	826.62	1,024.73	53.77	618,817.60	701,844.62
10,635.00	95.10	356.80	9,782.33	691.53	697.14	821.35	1,077.32	49.68	618,909.14	701,839.35
10,728.00	92.60	356.90	9,776.08	784.21	789.78	816.25	1,135.79	45.94	619,001.78	701,834.25
10,822.00	93.10	357.40	9,771.41	878.01	883.55	811.58	1,199.72	42.57	619,095.55	701,829.58
10,916.00	94.60	357.80	9,765.10	971.73	977.25	807.65	1,267.80	39.57	619,189.25	701,825.65
11,009.00	92.80	359.30	9,759.10	1,064.52	1,070.02	805.30	1,339.20	36.97	619,282.02	701,823.30
11,103.00	93.50	0.00	9,753.93	1,158.37	1,163.88	804.73	1,414.99	34.66	619,375.88	701,822.73
11,197.00	91.20	0.10	9,750.08	1,252.29	1,257.79	804.81	1,493.24	32.61	619,469.79	701,822.81
11,290.00	92.60	0.70	9,746.99	1,345.22	1,350.74	805.46	1,572.66	30.81	619,562.74	701,823.46
11,384.00	89.50	1.30	9,745.27	1,439.17	1,444.69	807.10	1,654.86	29.19	619,656.69	701,825.10
11,478.00	89.10	1.70	9,746.42	1,533.11	1,538.65	809.56	1,738.63	27.75	619,750.65	701,827.56



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Eland 32 State Com
Well: No. 124H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 124H
TVD Reference: Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
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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)	
11,571.00	90.30	0.20	9,746.91	1,626.08	1,631.64	811.10	1,822.12	26.43	619,843.64	701,829.10	
11,665.00	92.60	1.50	9,744.53	1,720.02	1,725.59	812.50	1,907.30	25.21	619,937.59	701,830.50	
11,758.00	90.40	359.80	9,742.09	1,812.96	1,818.54	813.55	1,992.22	24.10	620,030.54	701,831.55	
11,852.00	90.40	358.40	9,741.44	1,906.95	1,912.52	812.07	2,077.79	23.01	620,124.52	701,830.07	
11,946.00	92.10	358.50	9,739.39	2,000.91	2,006.46	809.53	2,163.62	21.97	620,218.46	701,827.53	
12,039.00	90.70	358.10	9,737.11	2,093.85	2,099.39	806.77	2,249.07	21.02	620,311.39	701,824.77	
12,133.00	91.30	358.20	9,735.47	2,187.81	2,193.33	803.74	2,335.96	20.13	620,405.33	701,821.74	
12,226.00	92.00	358.40	9,732.80	2,280.74	2,286.25	800.98	2,422.50	19.31	620,498.25	701,818.98	
12,320.00	92.40	358.40	9,729.19	2,374.65	2,380.14	798.36	2,510.47	18.54	620,592.14	701,816.36	
12,414.00	92.90	358.40	9,724.84	2,468.53	2,474.01	795.74	2,598.83	17.83	620,686.01	701,813.74	
12,507.00	94.20	359.20	9,719.08	2,561.34	2,566.80	793.79	2,686.74	17.18	620,778.80	701,811.79	
12,601.00	92.50	359.70	9,713.59	2,655.18	2,660.64	792.89	2,776.27	16.59	620,872.64	701,810.89	
12,694.00	93.10	359.80	9,709.05	2,748.07	2,753.52	792.49	2,865.30	16.06	620,965.52	701,810.49	
12,788.00	93.00	359.40	9,704.05	2,841.93	2,847.39	791.83	2,955.44	15.54	621,059.39	701,809.83	
12,882.00	93.70	359.80	9,698.55	2,935.77	2,941.22	791.18	3,045.78	15.06	621,153.22	701,809.18	
12,976.00	93.70	359.80	9,692.49	3,029.57	3,035.03	790.85	3,136.37	14.61	621,247.03	701,808.85	
13,070.00	90.20	359.60	9,689.29	3,123.50	3,128.96	790.36	3,227.23	14.18	621,340.96	701,808.36	
13,163.00	91.00	359.80	9,688.32	3,216.50	3,221.95	789.87	3,317.36	13.77	621,433.95	701,807.87	
13,257.00	88.80	0.20	9,688.48	3,310.49	3,315.94	789.87	3,408.72	13.40	621,527.94	701,807.87	
13,350.00	88.90	0.70	9,690.35	3,403.46	3,408.92	790.60	3,499.40	13.06	621,620.92	701,808.60	
13,444.00	89.40	0.90	9,691.74	3,497.43	3,502.90	791.91	3,591.30	12.74	621,714.90	701,809.91	
13,538.00	91.00	1.20	9,691.41	3,591.40	3,596.88	793.64	3,683.40	12.44	621,808.88	701,811.64	
13,631.00	87.50	0.50	9,692.63	3,684.35	3,689.85	795.02	3,774.52	12.16	621,901.85	701,813.02	
13,725.00	87.20	0.60	9,696.98	3,778.24	3,783.74	795.92	3,866.55	11.88	621,995.74	701,813.92	
13,819.00	87.10	359.60	9,701.65	3,872.12	3,877.63	796.08	3,958.50	11.60	622,089.63	701,814.08	
13,912.00	89.40	359.20	9,704.49	3,965.07	3,970.57	795.11	4,049.40	11.32	622,182.57	701,813.11	
14,006.00	89.60	359.60	9,705.31	4,059.06	4,064.56	794.12	4,141.41	11.06	622,276.56	701,812.12	



ProDirectional Survey Report



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Project: Lea County, NM
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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)	
14,099.00	90.40	359.90	9,705.31	4,152.06	4,157.56	793.72	4,232.65	10.81	622,369.56	701,811.72	
14,193.00	90.60	0.40	9,704.49	4,246.05	4,251.56	793.96	4,325.06	10.58	622,463.56	701,811.96	
14,287.00	91.10	0.40	9,703.09	4,340.03	4,345.54	794.62	4,417.60	10.36	622,557.54	701,812.62	
14,380.00	91.60	0.40	9,700.90	4,433.00	4,438.52	795.27	4,509.20	10.16	622,650.52	701,813.27	
14,434.00	91.83	0.51	9,699.29	4,486.97	4,492.49	795.70	4,562.41	10.04	622,704.49	701,813.70	
HL Xing: 14434' MD											
14,474.00	92.00	0.60	9,697.95	4,526.94	4,532.47	796.09	4,601.85	9.96	622,744.47	701,814.09	
Last Survey: 14474' MD, 9697.95' TVD											
14,538.00	92.00	0.60	9,695.72	4,590.89	4,596.42	796.76	4,664.97	9.83	622,808.42	701,814.76	
PTB: 14538' MD, 9695.72' TVD											

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
199.00	199.00	0.05	-0.17	Pro MWD First Survey: 199' MD	
9,767.00	9,643.71	-129.03	830.84	HL Xing: 9767' MD	
14,434.00	9,699.29	4,492.49	795.70	HL Xing: 14434' MD	
14,474.00	9,697.95	4,532.47	796.09	Last Survey: 14474' MD, 9697.95' TVD	
14,538.00	9,695.72	4,596.42	796.76	PTB: 14538' MD, 9695.72' TVD	