



HOBBS OCD
MAR 29 2017
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Eland 32-18S-33E RN State Com #123H
Lea County, NM

January 16, 2017

Job No. LNM5129316

PRODIRECTIONAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

January 16, 2017



Operator Name: Matador Resources
Well Name: Eland 32-18S-33E RN State Com #123H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5129316

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>Dates Performed</u>	<u>Type of Survey</u>
ProDirectional	168' MD – 5,558' MD	12/23/16 – 12/28/16	MWD-OWSG

Sincerely,

Mike Coats
Well Planning
Professional Directional

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

prodirectional.com



PRODIRECTIONAL

Survey Certification Letter

January 16, 2017



Operator Name: Matador Resources
Well Name: Eland 32-18S-33E RN State Com #123H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5129316

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	10,451' MD – 14,380' MD	14,518' MD	01/04/17 – 01/07/17	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. 123H

OH

Survey: ProDirectional

Survey Report

16 January, 2017





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 123H
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. 123H	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. 123H		
Well Position	+N/-S	0.00 usft	Northing: 618,212.00 usft
	+E/-W	0.00 usft	Easting: 700,988.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 41' 52.300 N
		Longitude:	103° 40' 47.939 W
		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



ProDirectional Survey Report



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Site:	Eland 32 State Com	MD Reference:	Well @ 3757.50usft (GL: 3729' + KB: 28.5' (Patt809))
Well:	No. 123H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD	Database:	WellPlanner1

Survey Program		Date	1/8/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
168.00	5,558.00	Survey #1 (OH)	MWD - OWSG	MWD - OWSG	
5,669.00	10,342.00	Survey #2 (OH)	MWD - OWSG	MWD - OWSG	
10,451.00	14,518.00	Survey #3 (OH)	MWD - OWSG	MWD - OWSG	

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	700,988.00	
168.00	1.00	335.00	167.99	1.33	1.33	-0.62	1.47	335.00	618,213.33	700,987.38	
Pro MWD First Survey: 168' MD											
299.00	1.00	351.40	298.97	3.50	3.49	-1.27	3.72	339.98	618,215.49	700,986.73	
392.00	0.80	316.10	391.96	4.78	4.77	-1.85	5.11	338.83	618,216.77	700,986.15	
486.00	1.20	251.80	485.95	4.95	4.93	-3.24	5.90	326.73	618,216.93	700,984.76	
581.00	2.00	242.90	580.91	3.90	3.86	-5.66	6.85	304.34	618,215.86	700,982.34	
673.00	2.90	243.70	672.83	2.16	2.10	-9.17	9.41	282.91	618,214.10	700,978.83	
767.00	3.90	241.60	766.66	-0.38	-0.47	-14.12	14.12	268.09	618,211.53	700,973.88	
859.00	3.90	241.30	858.45	-3.33	-3.46	-19.61	19.92	259.99	618,208.54	700,968.39	
952.00	4.00	242.90	951.23	-6.29	-6.46	-25.27	26.09	255.66	618,205.54	700,962.73	
1,046.00	3.10	245.10	1,045.04	-8.81	-9.02	-30.50	31.80	253.52	618,202.98	700,957.50	
1,139.00	2.50	250.40	1,137.93	-10.53	-10.76	-34.69	36.32	252.76	618,201.24	700,953.31	
1,233.00	2.30	248.10	1,231.85	-11.89	-12.15	-38.37	40.25	252.43	618,199.85	700,949.63	
1,327.00	2.70	249.10	1,325.76	-13.36	-13.65	-42.19	44.34	252.08	618,198.35	700,945.81	
1,443.00	2.80	251.80	1,441.63	-15.18	-15.51	-47.43	49.90	251.90	618,196.49	700,940.57	
1,513.00	2.20	262.40	1,511.56	-15.87	-16.22	-50.39	52.93	252.16	618,195.78	700,937.61	
1,607.00	2.70	257.60	1,605.47	-16.56	-16.93	-54.34	56.92	252.69	618,195.07	700,933.66	
1,700.00	4.90	246.60	1,698.27	-18.57	-18.98	-60.13	63.05	252.48	618,193.02	700,927.87	
1,793.00	6.30	244.80	1,790.82	-22.26	-22.73	-68.39	72.07	251.61	618,189.27	700,919.61	
1,887.00	5.90	245.30	1,884.29	-26.42	-26.94	-77.44	82.00	250.82	618,185.06	700,910.56	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Eland 32 State Com
Well: No. 123H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 123H
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)	
1,981.00	6.30	242.10	1,977.76	-30.79	-31.38	-86.39	91.91	250.04	618,180.62	700,901.61	
2,075.00	7.00	239.60	2,071.12	-36.04	-36.69	-95.89	102.67	249.06	618,175.31	700,892.11	
2,168.00	6.70	240.70	2,163.46	-41.49	-42.21	-105.51	113.64	248.19	618,169.79	700,882.49	
2,261.00	6.40	241.30	2,255.85	-46.57	-47.36	-114.79	124.17	247.58	618,164.64	700,873.21	
2,355.00	6.30	237.10	2,349.28	-51.83	-52.67	-123.71	134.46	246.94	618,159.33	700,864.29	
2,449.00	6.00	234.30	2,442.73	-57.44	-58.34	-132.03	144.35	246.16	618,153.66	700,855.97	
2,542.00	4.90	233.30	2,535.31	-62.60	-63.55	-139.16	152.99	245.46	618,148.45	700,848.84	
2,635.00	5.30	235.40	2,627.94	-67.37	-68.36	-145.88	161.11	244.89	618,143.64	700,842.12	
2,729.00	6.20	235.10	2,721.47	-72.69	-73.73	-153.62	170.40	244.36	618,138.27	700,834.38	
2,822.00	5.50	233.30	2,813.99	-78.17	-79.27	-161.31	179.74	243.83	618,132.73	700,826.69	
2,916.00	4.90	234.50	2,907.60	-83.15	-84.29	-168.19	188.13	243.38	618,127.71	700,819.81	
3,010.00	4.80	236.10	3,001.26	-87.63	-88.82	-174.73	196.01	243.05	618,123.18	700,813.27	
3,103.00	6.30	236.90	3,093.82	-92.53	-93.78	-182.23	204.94	242.77	618,118.22	700,805.77	
3,197.00	6.30	234.90	3,187.26	-98.26	-99.56	-190.77	215.19	242.44	618,112.44	700,797.23	
3,290.00	5.30	237.80	3,279.78	-103.43	-104.78	-198.58	224.53	242.18	618,107.22	700,789.42	
3,384.00	5.00	235.60	3,373.40	-108.01	-109.41	-205.63	232.93	241.98	618,102.59	700,782.37	
3,478.00	5.10	233.30	3,467.03	-112.77	-114.22	-212.36	241.13	241.73	618,097.78	700,775.64	
3,571.00	4.50	234.00	3,559.71	-117.34	-118.84	-218.63	248.84	241.47	618,093.16	700,769.37	
3,665.00	4.80	235.80	3,653.40	-121.68	-123.21	-224.87	256.41	241.28	618,088.79	700,763.13	
3,758.00	5.00	235.60	3,746.06	-126.11	-127.69	-231.43	264.32	241.11	618,084.31	700,756.57	
3,851.00	4.60	236.10	3,838.73	-130.44	-132.06	-237.87	272.07	240.96	618,079.94	700,750.13	
3,945.00	5.30	233.10	3,932.38	-135.10	-136.77	-244.47	280.13	240.77	618,075.23	700,743.53	
4,038.00	6.30	230.70	4,024.90	-140.86	-142.58	-251.85	289.41	240.48	618,069.42	700,736.15	
4,132.00	5.90	232.30	4,118.37	-147.03	-148.80	-259.67	299.28	240.19	618,063.20	700,728.33	
4,225.00	5.40	233.30	4,210.92	-152.52	-154.34	-266.96	308.36	239.97	618,057.66	700,721.04	
4,319.00	5.10	234.10	4,304.52	-157.56	-159.43	-273.89	316.91	239.80	618,052.57	700,714.11	
4,413.00	4.80	232.80	4,398.17	-162.35	-164.26	-280.40	324.97	239.64	618,047.74	700,707.60	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 123H
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. 123H	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)	
4,506.00	4.40	234.70	4,490.87	-166.72	-168.67	-286.41	332.39	239.51	618,043.33	700,701.59	
4,600.00	5.30	234.90	4,584.54	-171.26	-173.25	-292.91	340.31	239.40	618,038.75	700,695.09	
4,693.00	6.20	236.90	4,677.07	-176.42	-178.47	-300.63	349.61	239.30	618,033.53	700,687.37	
4,787.00	6.00	237.50	4,770.54	-181.77	-183.88	-309.03	359.60	239.25	618,028.12	700,678.97	
4,880.00	5.70	240.00	4,863.05	-186.64	-188.80	-317.13	369.07	239.23	618,023.20	700,670.87	
4,974.00	5.40	240.60	4,956.61	-191.09	-193.30	-325.02	378.16	239.26	618,018.70	700,662.98	
5,067.00	5.20	242.20	5,049.21	-195.15	-197.42	-332.56	386.74	239.31	618,014.58	700,655.44	
5,161.00	5.00	242.70	5,142.84	-198.96	-201.28	-339.97	395.09	239.37	618,010.72	700,648.03	
5,254.00	4.80	244.30	5,235.50	-202.46	-204.83	-347.08	403.01	239.45	618,007.17	700,640.92	
5,347.00	4.80	245.90	5,328.17	-205.69	-208.11	-354.14	410.76	239.56	618,003.89	700,633.86	
5,441.00	4.50	245.40	5,421.87	-208.78	-211.25	-361.08	418.33	239.67	618,000.75	700,626.92	
5,558.00	3.90	244.40	5,538.55	-212.36	-214.88	-368.84	426.87	239.78	617,997.12	700,619.16	
Last Pro Survey: 5558' MD											
5,669.00	3.41	241.60	5,649.32	-215.52	-218.08	-375.15	433.93	239.83	617,993.92	700,612.85	
First Baker Survey: 5669' MD											
5,762.00	5.31	219.28	5,742.06	-220.13	-222.73	-380.31	440.73	239.64	617,989.27	700,607.69	
5,856.00	5.57	216.24	5,835.63	-227.14	-229.77	-385.76	449.00	239.22	617,982.23	700,602.24	
5,950.00	4.78	211.22	5,929.25	-234.14	-236.80	-390.48	456.68	238.77	617,975.20	700,597.52	
6,043.00	6.08	217.87	6,021.83	-241.30	-244.00	-395.52	464.73	238.33	617,968.00	700,592.48	
6,137.00	5.66	220.53	6,115.34	-248.72	-251.46	-401.58	473.81	237.95	617,960.54	700,586.42	
6,231.00	5.82	219.99	6,208.87	-255.85	-258.63	-407.66	482.78	237.61	617,953.37	700,580.34	
6,324.00	5.25	218.78	6,301.43	-262.74	-265.56	-413.36	491.31	237.28	617,946.44	700,574.64	
6,418.00	5.22	221.02	6,395.04	-269.28	-272.14	-418.86	499.50	236.99	617,939.86	700,569.14	
6,511.00	4.61	220.26	6,487.70	-275.29	-278.18	-424.05	507.15	236.73	617,933.82	700,563.95	
6,605.00	5.87	222.83	6,581.31	-281.66	-284.59	-429.76	515.44	236.49	617,927.41	700,558.24	
6,699.00	5.91	224.76	6,674.81	-288.57	-291.55	-436.43	524.86	236.26	617,920.45	700,551.57	
6,792.00	5.49	225.45	6,767.35	-295.05	-298.07	-442.97	533.92	236.06	617,913.93	700,545.03	



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Eland 32 State Com
Well: No. 123H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 123H
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)	
6,886.00	5.26	228.18	6,860.94	-301.03	-304.10	-449.39	542.61	235.91	617,907.90	700,538.61	
6,979.00	6.45	224.65	6,953.45	-307.55	-310.66	-456.24	551.96	235.75	617,901.34	700,531.76	
7,166.00	6.28	222.44	7,139.30	-322.47	-325.68	-470.52	572.24	235.31	617,886.32	700,517.48	
7,259.00	5.76	221.33	7,231.78	-329.68	-332.94	-477.04	581.73	235.09	617,879.06	700,510.96	
7,445.00	4.56	224.31	7,417.03	-341.91	-345.24	-488.36	598.07	234.74	617,866.76	700,499.64	
7,633.00	5.92	222.12	7,604.24	-354.36	-357.78	-500.09	614.89	234.42	617,854.22	700,487.91	
7,820.00	4.25	217.83	7,790.50	-366.92	-370.40	-510.81	630.97	234.05	617,841.60	700,477.19	
8,008.00	4.12	230.12	7,978.00	-376.69	-380.24	-520.26	644.40	233.84	617,831.76	700,467.74	
8,195.00	6.49	227.95	8,164.18	-387.98	-391.62	-533.27	661.62	233.71	617,820.38	700,454.73	
8,382.00	5.54	229.39	8,350.15	-400.84	-404.58	-547.97	681.14	233.56	617,807.42	700,440.03	
8,476.00	5.43	233.14	8,443.72	-406.41	-410.20	-554.97	690.11	233.53	617,801.80	700,433.03	
8,663.00	4.07	233.10	8,630.08	-415.62	-419.49	-567.36	705.60	233.52	617,792.51	700,420.64	
8,850.00	3.85	236.25	8,816.63	-423.02	-426.96	-577.88	718.50	233.54	617,785.04	700,410.12	
8,944.00	3.73	237.21	8,910.42	-426.39	-430.37	-583.08	724.71	233.57	617,781.63	700,404.92	
8,985.00	2.84	215.37	8,951.36	-427.93	-431.92	-584.79	727.00	233.55	617,780.08	700,403.21	
9,032.00	3.25	263.17	8,998.30	-429.03	-433.03	-586.78	729.27	233.57	617,778.97	700,401.22	
9,079.00	7.84	296.68	9,045.08	-427.72	-431.75	-590.97	731.89	233.85	617,780.25	700,397.03	
9,125.00	11.68	309.02	9,090.41	-423.33	-427.41	-597.40	734.55	234.42	617,784.59	700,390.60	
9,172.00	12.52	318.88	9,136.37	-416.45	-420.57	-604.45	736.37	235.17	617,791.43	700,383.55	
9,219.00	14.48	321.45	9,182.07	-407.97	-412.14	-611.46	737.39	236.02	617,799.86	700,376.54	
9,266.00	15.15	348.65	9,227.56	-397.31	-401.51	-616.33	735.58	236.92	617,810.49	700,371.67	
9,312.00	17.13	4.21	9,271.76	-384.64	-388.85	-617.02	729.33	237.78	617,823.15	700,370.98	
9,359.00	20.88	7.49	9,316.20	-369.44	-373.64	-615.42	719.96	238.74	617,838.36	700,372.58	
9,406.00	22.69	359.16	9,359.85	-352.08	-356.27	-614.46	710.27	239.89	617,855.73	700,373.54	
9,453.00	26.17	354.05	9,402.64	-332.69	-336.89	-615.67	701.81	241.31	617,875.11	700,372.33	
9,500.00	28.28	354.17	9,444.43	-311.29	-315.50	-617.87	693.76	242.95	617,896.50	700,370.13	
9,547.00	30.11	355.67	9,485.46	-288.44	-292.66	-619.90	685.51	244.73	617,919.34	700,368.10	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 123H
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. 123H	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)	
9,593.00	33.51	356.30	9,524.54	-264.24	-268.48	-621.59	677.09	246.64	617,943.52	700,366.41	
9,640.00	38.90	356.73	9,562.45	-236.53	-240.78	-623.27	668.16	248.88	617,971.22	700,364.73	
9,686.00	43.66	356.90	9,597.01	-206.23	-210.49	-624.95	659.45	251.39	618,001.51	700,363.05	
9,734.00	48.15	353.63	9,630.41	-171.88	-176.15	-627.83	652.08	254.33	618,035.85	700,360.17	
9,776.00	53.99	353.19	9,656.79	-139.41	-143.71	-631.59	647.73	257.18	618,068.29	700,356.41	
HL Xing: 9776' MD											
9,781.00	54.69	353.14	9,659.70	-135.37	-139.68	-632.07	647.32	257.54	618,072.32	700,355.93	
9,828.00	59.73	354.21	9,685.15	-96.08	-100.42	-636.41	644.28	261.03	618,111.58	700,351.59	
9,874.00	63.65	355.78	9,706.96	-55.73	-60.08	-639.93	642.75	264.64	618,151.92	700,348.07	
9,921.00	67.97	358.50	9,726.22	-12.91	-17.28	-642.05	642.29	268.46	618,194.72	700,345.95	
9,968.00	71.56	356.32	9,742.47	31.15	26.76	-644.06	644.61	272.38	618,238.76	700,343.94	
10,015.00	76.38	355.53	9,755.45	76.21	71.81	-647.27	651.24	276.33	618,283.81	700,340.73	
10,061.00	81.39	354.64	9,764.31	121.19	116.76	-651.14	661.52	280.17	618,328.76	700,336.86	
10,108.00	86.56	353.99	9,769.24	167.72	163.26	-655.77	675.78	283.98	618,375.26	700,332.23	
10,155.00	90.83	355.36	9,770.31	214.52	210.03	-660.13	692.73	287.65	618,422.03	700,327.87	
10,248.00	94.42	355.31	9,766.06	307.15	302.61	-667.68	733.06	294.38	618,514.61	700,320.32	
10,342.00	94.68	355.05	9,758.60	400.57	395.98	-675.55	783.06	300.38	618,607.98	700,312.45	
Last Baker Survey: 10342' MD											
10,451.00	95.00	357.10	9,749.40	508.97	504.33	-682.99	849.01	306.44	618,716.33	700,305.01	
Resume Pro MWD Survey's: 10451' MD											
10,544.00	89.90	358.70	9,745.43	601.81	597.15	-686.39	909.79	311.02	618,809.15	700,301.61	
10,638.00	90.30	358.30	9,745.26	695.79	691.12	-688.85	975.79	315.09	618,903.12	700,299.15	
10,732.00	88.50	358.70	9,746.25	789.77	785.08	-691.31	1,046.07	318.63	618,997.08	700,296.69	
10,825.00	89.40	357.70	9,747.95	882.72	878.02	-694.23	1,119.32	321.67	619,090.02	700,293.77	
10,919.00	89.60	358.70	9,748.77	976.69	971.96	-697.18	1,196.15	324.35	619,183.96	700,290.82	
11,012.00	89.60	358.40	9,749.42	1,069.67	1,064.93	-699.54	1,274.14	326.70	619,276.93	700,288.46	
11,106.00	89.20	359.40	9,750.40	1,163.66	1,158.91	-701.34	1,354.60	328.82	619,370.91	700,286.66	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 123H
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. 123H	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)
11,200.00	90.50	359.70	9,750.65	1,257.65	1,252.90	-702.08	1,436.20	330.74	619,464.90	700,285.92
11,293.00	90.80	359.80	9,749.60	1,350.65	1,345.90	-702.49	1,518.20	332.44	619,557.90	700,285.51
11,386.00	91.60	359.50	9,747.65	1,443.63	1,438.87	-703.05	1,601.45	333.96	619,650.87	700,284.95
11,480.00	92.90	359.20	9,743.96	1,537.55	1,532.79	-704.12	1,686.78	335.33	619,744.79	700,283.88
11,573.00	92.70	359.80	9,739.41	1,630.44	1,625.68	-704.93	1,771.93	336.56	619,837.68	700,283.07
11,666.00	90.70	0.50	9,736.66	1,723.39	1,718.63	-704.69	1,857.49	337.71	619,930.63	700,283.31
11,759.00	89.30	0.60	9,736.66	1,816.37	1,811.62	-703.79	1,943.53	338.77	620,023.62	700,284.21
11,853.00	89.80	1.40	9,737.39	1,910.34	1,905.61	-702.15	2,030.85	339.77	620,117.61	700,285.85
11,947.00	87.90	1.30	9,739.28	2,004.27	1,999.56	-699.94	2,118.52	340.71	620,211.56	700,288.06
12,040.00	87.40	0.80	9,743.09	2,097.17	2,092.46	-698.24	2,205.89	341.55	620,304.46	700,289.76
12,133.00	89.40	0.60	9,745.69	2,190.11	2,185.41	-697.10	2,293.90	342.31	620,397.41	700,290.90
12,227.00	90.90	0.60	9,745.44	2,284.09	2,279.41	-696.12	2,383.33	343.02	620,491.41	700,291.88
12,320.00	91.00	1.50	9,743.90	2,377.05	2,372.38	-694.41	2,471.92	343.68	620,584.38	700,293.59
12,414.00	91.90	1.80	9,741.52	2,470.96	2,466.31	-691.71	2,561.47	344.33	620,678.31	700,296.29
12,508.00	91.50	1.00	9,738.74	2,564.87	2,560.24	-689.41	2,651.43	344.93	620,772.24	700,298.59
12,601.00	88.70	0.20	9,738.57	2,657.85	2,653.22	-688.44	2,741.08	345.45	620,865.22	700,299.56
12,695.00	88.90	0.10	9,740.54	2,751.82	2,747.20	-688.19	2,832.09	345.94	620,959.20	700,299.81
12,788.00	89.80	359.80	9,741.60	2,844.81	2,840.19	-688.27	2,922.40	346.38	621,052.19	700,299.73
12,882.00	90.40	0.10	9,741.43	2,938.81	2,934.19	-688.35	3,013.85	346.80	621,146.19	700,299.65
12,976.00	89.40	0.30	9,741.60	3,032.80	3,028.19	-688.03	3,105.37	347.20	621,240.19	700,299.97
13,069.00	89.60	0.50	9,742.41	3,125.79	3,121.18	-687.38	3,195.98	347.58	621,333.18	700,300.62
13,163.00	90.60	0.60	9,742.24	3,219.78	3,215.18	-686.47	3,287.65	347.95	621,427.18	700,301.53
13,256.00	91.70	0.80	9,740.38	3,312.74	3,308.15	-685.34	3,378.40	348.30	621,520.15	700,302.66
13,350.00	90.50	0.60	9,738.57	3,406.70	3,402.13	-684.19	3,470.24	348.63	621,614.13	700,303.81
13,444.00	90.60	0.60	9,737.67	3,500.69	3,496.12	-683.21	3,562.25	348.94	621,708.12	700,304.79
13,537.00	91.40	0.60	9,736.05	3,593.66	3,589.10	-682.23	3,653.36	349.24	621,801.10	700,305.77
13,631.00	91.80	359.50	9,733.42	3,687.62	3,683.06	-682.15	3,745.70	349.51	621,895.06	700,305.85



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM
Site: Eland 32 State Com
Well: No. 123H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 123H
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)
13,724.00	89.80	359.10	9,732.12	3,780.60	3,776.04	-683.29	3,837.36	349.74	621,988.04	700,304.71
13,818.00	90.70	359.20	9,731.71	3,874.60	3,870.02	-684.68	3,930.12	349.97	622,082.02	700,303.32
13,912.00	91.80	359.30	9,729.66	3,968.57	3,963.99	-685.91	4,022.90	350.18	622,175.99	700,302.09
14,005.00	93.20	359.20	9,725.61	4,061.48	4,056.89	-687.13	4,114.67	350.39	622,268.89	700,300.87
14,099.00	91.90	358.50	9,721.43	4,155.37	4,150.78	-689.01	4,207.58	350.58	622,362.78	700,298.99
14,193.00	92.80	358.40	9,717.57	4,249.27	4,244.66	-691.55	4,300.63	350.75	622,456.66	700,296.45
14,317.00	94.00	358.00	9,710.22	4,373.02	4,368.38	-695.44	4,423.39	350.95	622,580.38	700,292.56
14,380.00	94.80	357.80	9,705.38	4,435.80	4,431.15	-697.74	4,485.75	351.05	622,643.15	700,290.26
Last Survey: 14380' MD, 9705.38' TVD										
14,426.00	94.80	357.80	9,701.53	4,481.62	4,476.96	-699.50	4,531.28	351.12	622,688.96	700,288.50
HL Xing: 14426' MD										
14,518.00	94.80	357.80	9,693.84	4,573.25	4,568.57	-703.02	4,622.34	351.25	622,780.57	700,284.98
PTB: 14518' MD, 9693.84' TVD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
168.00	167.99	1.33	-0.62	Pro MWD First Survey: 168' MD
5,558.00	5,538.55	-214.88	-368.84	Last Pro Survey: 5558' MD
5,669.00	5,649.32	-218.08	-375.15	First Baker Survey: 5669' MD
9,776.00	9,656.79	-143.71	-631.59	HL Xing: 9776' MD
10,342.00	9,758.60	395.98	-675.55	Last Baker Survey: 10342' MD
10,451.00	9,749.40	504.33	-682.99	Resume Pro MWD Survey's: 10451' MD
14,380.00	9,705.38	4,431.15	-697.74	Last Survey: 14380' MD, 9705.38' TVD
14,426.00	9,701.53	4,476.96	-699.50	HL Xing: 14426' MD
14,518.00	9,693.84	4,568.57	-703.02	PTB: 14518' MD, 9693.84' TVD