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SEP 19 2019

DISTRICT 7 - ARTESIA CO. C.D.



General Kehoe 02-24S-28E RB No. 223H(ST)
Eddy County, NM

July 30, 2019

Job No. LNM5210419

ORIGINAL

Certified Report



PRODIRECTIONAL

Survey Certification Letter

July 30, 2019



Operator Name: Matador Resources
Well Name: General Kehoe 02-24S-28E RB No. 223H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 297
Job Number: LNM5210419

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	11,164' MD – 15,343' MD	15,395' MD	06/30/19 – 07/03/19	MWD

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com

The Standard of Excellence in Directional Supervision



Matador Resources

Eddy County, NM

General Kehoe 02-24S-28E RB

No. 223H

ST01

Survey: ProDirectional

Survey Report

30 July, 2019





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 223H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3026.50usft
Site:	General Kehoe 02-24S-28E RB	MD Reference:	Well @ 3026.50usft
Well:	No. 223H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	MWD-11164'-15343', PTB: 15395'	Database:	WellPlanner1

Project	Eddy County, NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	General Kehoe 02-24S-28E RB		
Site Position:		Northing:	456,137.00 usft
From:	Map	Easting:	628,716.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.253680
		Longitude:	-104.050676
		Grid Convergence:	0.15 °

Well		No. 223H, LNM5210419				
Well Position	+N-S	0.00 usft	Northing:	456,044.00 usft	Latitude:	32.253434
	+E-W	0.00 usft	Easting:	627,280.00 usft	Longitude:	-104.055322
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,998.00 usft

Wellbore:	ST01				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	6/30/2019	7.08	59.98	47,892.00

Design:	MWD-11164'-15343', PTB: 15395'			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 11,091.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	180.52



ProDirectional
Survey Report



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Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	MWD-11164'-15343', PTB: 15395'	Database:	WellPlanner1

Survey Program		Date 7/30/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
118.70	425.70	Survey #1 (OH)	MWD+HRGM	OWSG MWD + HRGM
500.00	11,091.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HRGM
11,164.00	15,395.00	Survey #1 (ST01)	MWD+HDGM	OWSG MWD + HRGM

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	456,044.00	627,280.00
118.70	0.60	202.95	118.70	0.57	-0.57	-0.24	0.62	202.95	456,043.43	627,279.76
199.70	0.90	100.95	199.69	1.08	-1.08	0.22	1.11	168.68	456,042.92	627,280.22
281.70	0.20	199.95	281.69	1.33	-1.34	0.80	1.56	149.16	456,042.66	627,280.80
375.70	1.00	137.95	375.68	2.09	-2.10	1.29	2.47	148.41	456,041.90	627,281.29
425.70	0.70	107.95	425.68	2.50	-2.52	1.88	3.14	143.35	456,041.48	627,281.88
500.00	0.40	105.60	499.98	2.71	-2.73	2.56	3.74	136.88	456,041.27	627,282.56
593.00	0.50	43.60	592.97	2.50	-2.53	3.15	4.04	128.71	456,041.47	627,283.15
683.00	1.50	2.80	682.96	1.03	-1.06	3.48	3.64	107.01	456,042.94	627,283.48
773.00	3.70	358.40	772.86	-3.05	3.02	3.46	4.59	48.89	456,047.02	627,283.46
864.00	5.40	355.20	863.57	-10.25	10.22	3.02	10.65	16.44	456,054.22	627,283.02
956.00	5.20	355.10	955.18	-18.71	18.69	2.30	18.83	7.01	456,062.69	627,282.30
1,046.00	4.50	347.90	1,044.86	-26.21	26.20	1.21	26.23	2.64	456,070.20	627,281.21
1,136.00	4.20	332.00	1,134.60	-32.55	32.56	-1.08	32.58	358.10	456,076.56	627,278.92
1,227.00	4.70	316.00	1,225.33	-38.14	38.19	-5.23	38.55	352.20	456,082.19	627,274.77
1,319.00	4.50	318.10	1,317.03	-43.49	43.59	-10.26	44.78	346.75	456,087.59	627,269.74
1,408.00	4.20	315.50	1,405.78	-48.37	48.51	-14.88	50.74	342.95	456,092.51	627,265.12
1,502.00	4.40	304.40	1,499.51	-52.82	53.00	-20.27	56.74	339.07	456,097.00	627,259.73
1,595.00	4.00	306.10	1,592.26	-56.69	56.93	-25.83	62.51	335.59	456,100.93	627,254.17
1,689.00	3.50	306.40	1,686.06	-60.28	60.56	-30.79	67.94	333.05	456,104.56	627,249.21



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 223H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3026.50usft
Site:	General Kehoe 02-24S-28E RB	MD Reference:	Well @ 3026.50usft
Well:	No. 223H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	MWD-11164'-15343', PTB: 15395'	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)	
1,783.00	3.00	306.50	1,779.91	-63.41	63.73	-35.08	72.74	331.17	456,107.73	627,244.92	
1,876.00	1.70	311.30	1,872.83	-65.74	66.09	-38.07	76.27	330.06	456,110.09	627,241.93	
1,969.00	0.60	330.60	1,965.81	-67.06	67.42	-39.34	78.06	329.73	456,111.42	627,240.66	
2,062.00	0.30	57.90	2,058.81	-67.62	67.98	-39.38	78.56	329.92	456,111.98	627,240.62	
2,156.00	1.00	101.60	2,152.80	-67.59	67.94	-38.36	78.02	330.55	456,111.94	627,241.64	
2,249.00	1.90	114.30	2,245.77	-66.81	67.14	-36.16	76.26	331.69	456,111.14	627,243.84	
2,343.00	3.00	115.70	2,339.68	-65.14	65.44	-32.53	73.07	333.57	456,109.44	627,247.47	
2,436.00	3.90	115.70	2,432.51	-62.76	63.01	-27.49	68.74	336.43	456,107.01	627,252.51	
2,529.00	3.00	117.40	2,525.34	-60.31	60.52	-22.47	64.56	339.63	456,104.52	627,257.53	
2,623.00	2.20	130.10	2,619.25	-58.05	58.22	-18.91	61.22	342.01	456,102.22	627,261.09	
2,682.00	2.00	133.80	2,678.21	-56.62	56.78	-17.30	59.36	343.05	456,100.78	627,262.70	
2,808.00	2.00	125.10	2,804.13	-53.87	53.99	-13.92	55.76	345.55	456,097.99	627,266.08	
2,901.00	1.50	129.10	2,897.09	-52.19	52.29	-11.64	53.57	347.45	456,096.29	627,268.36	
2,995.00	1.30	254.80	2,991.08	-51.13	51.24	-11.72	52.56	347.12	456,095.24	627,268.28	
3,089.00	2.00	265.20	3,085.04	-50.69	50.82	-14.38	52.82	344.20	456,094.82	627,265.62	
3,182.00	3.50	276.00	3,177.93	-50.81	50.98	-18.82	54.35	339.74	456,094.98	627,261.18	
3,276.00	5.20	286.30	3,271.65	-52.24	52.48	-25.76	58.46	333.85	456,096.48	627,254.24	
3,369.00	6.80	292.00	3,364.14	-55.40	55.72	-34.91	65.76	327.93	456,099.72	627,245.09	
3,462.00	7.20	293.90	3,456.45	-59.73	60.15	-45.35	75.33	322.99	456,104.15	627,234.65	
3,556.00	6.70	291.20	3,549.76	-64.01	64.52	-55.85	85.33	319.12	456,108.52	627,224.15	
3,650.00	7.10	294.00	3,643.08	-68.26	68.86	-66.27	95.57	316.10	456,112.86	627,213.73	
3,743.00	7.70	297.70	3,735.30	-73.39	74.10	-77.03	106.88	313.89	456,118.10	627,202.97	
3,837.00	7.20	296.40	3,828.51	-78.84	79.64	-87.88	118.60	312.18	456,123.64	627,192.12	
3,930.00	8.20	295.80	3,920.67	-84.22	85.12	-99.08	130.62	310.67	456,129.12	627,180.92	
4,024.00	7.90	294.60	4,013.74	-89.72	90.73	-110.99	143.35	309.27	456,134.73	627,169.01	
4,117.00	7.60	292.60	4,105.89	-94.64	95.75	-122.47	155.46	308.02	456,139.75	627,157.53	
4,211.00	7.10	290.00	4,199.12	-98.91	100.13	-133.67	167.01	306.84	456,144.13	627,146.33	



ProDirectional Survey Report



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Well:	No. 223H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	MWD-11164'-15343', PTB: 15395'	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)	
4,304.00	7.30	290.40	4,291.39	-102.84	104.15	-144.61	178.21	305.76	456,148.15	627,135.39	
4,398.00	7.30	289.10	4,384.63	-106.77	108.19	-155.85	189.72	304.77	456,152.19	627,124.15	
4,491.00	7.70	294.40	4,476.83	-111.17	112.70	-167.11	201.56	304.00	456,156.70	627,112.89	
4,585.00	7.60	306.00	4,570.00	-117.33	118.95	-177.87	213.98	303.77	456,162.95	627,102.13	
4,678.00	7.80	311.50	4,662.16	-125.04	126.75	-187.58	226.38	304.05	456,170.75	627,092.42	
4,772.00	7.40	307.60	4,755.34	-132.87	134.67	-197.15	238.75	304.34	456,178.67	627,082.85	
4,865.00	7.00	302.10	4,847.61	-139.45	141.33	-206.69	250.40	304.36	456,185.33	627,073.31	
4,959.00	6.90	299.10	4,940.91	-145.15	147.12	-216.48	261.74	304.20	456,191.12	627,063.52	
5,052.00	6.50	294.70	5,033.28	-149.98	152.04	-226.14	272.50	303.91	456,196.04	627,053.86	
5,145.00	6.00	289.40	5,125.73	-153.71	155.85	-235.51	282.41	303.50	456,199.85	627,044.49	
5,239.00	5.50	295.60	5,219.26	-157.21	159.43	-244.21	291.64	303.14	456,203.43	627,035.79	
5,332.00	5.10	305.80	5,311.86	-161.49	163.78	-251.58	300.19	303.06	456,207.78	627,028.42	
5,425.00	4.80	301.80	5,404.51	-165.89	168.25	-258.24	308.21	303.08	456,212.25	627,021.76	
5,518.00	4.60	299.40	5,497.20	-169.72	172.13	-264.80	315.82	303.03	456,216.13	627,015.20	
5,612.00	4.30	298.00	5,590.92	-173.16	175.63	-271.19	323.10	302.93	456,219.63	627,008.81	
5,705.00	4.10	294.70	5,683.67	-176.13	178.66	-277.29	329.86	302.79	456,222.66	627,002.71	
5,798.00	4.00	290.00	5,776.44	-178.58	181.16	-283.36	336.32	302.59	456,225.16	626,996.64	
5,892.00	3.60	339.60	5,870.25	-182.43	185.04	-287.47	341.88	302.77	456,229.04	626,992.53	
5,985.00	3.70	310.90	5,963.07	-187.10	189.75	-290.75	347.19	303.13	456,233.75	626,989.25	
6,078.00	4.40	315.40	6,055.84	-191.56	194.25	-295.53	353.65	303.32	456,238.25	626,984.47	
6,171.00	4.30	314.80	6,148.57	-196.51	199.25	-300.51	360.56	303.55	456,243.25	626,979.49	
6,265.00	4.00	312.50	6,242.32	-201.17	203.95	-305.42	367.26	303.73	456,247.95	626,974.58	
6,358.00	3.90	309.70	6,335.10	-205.33	208.16	-310.25	373.61	303.86	456,252.16	626,969.75	
6,451.00	3.50	304.40	6,427.91	-208.91	211.78	-315.03	379.59	303.91	456,255.78	626,964.97	
6,544.00	3.10	301.10	6,520.76	-211.78	214.68	-319.52	384.95	303.90	456,258.68	626,960.48	
6,638.00	2.90	291.60	6,614.63	-213.92	216.87	-323.91	389.81	303.80	456,260.87	626,956.09	
6,731.00	3.00	288.10	6,707.50	-215.51	218.49	-328.41	394.45	303.64	456,262.49	626,951.59	



ProDirectional Survey Report



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Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	MWD-11164'-15343', PTB: 15395'	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)	
6,824.00	1.90	277.10	6,800.42	-216.42	219.44	-332.25	398.18	303.44	456,263.44	626,947.75	
6,918.00	0.90	283.00	6,894.39	-216.75	219.80	-334.52	400.27	303.31	456,263.80	626,945.48	
7,011.00	1.90	307.70	6,987.36	-217.84	220.91	-336.45	402.49	303.29	456,264.91	626,943.55	
7,104.00	2.60	318.90	7,080.29	-220.35	223.44	-339.06	406.06	303.39	456,267.44	626,940.94	
7,198.00	2.50	306.90	7,174.20	-223.16	226.28	-342.10	410.16	303.48	456,270.28	626,937.90	
7,291.00	2.60	294.30	7,267.11	-225.22	228.36	-345.64	414.27	303.45	456,272.36	626,934.36	
7,385.00	1.90	299.30	7,361.03	-226.83	230.00	-348.94	417.93	303.39	456,274.00	626,931.06	
7,478.00	1.60	329.80	7,453.99	-228.68	231.88	-350.94	420.63	303.45	456,275.88	626,929.06	
7,572.00	0.80	336.20	7,547.97	-230.41	233.61	-351.87	422.36	303.58	456,277.61	626,928.13	
7,665.00	1.70	318.10	7,640.95	-232.02	235.24	-353.05	424.24	303.68	456,279.24	626,926.95	
7,759.00	1.90	286.90	7,734.90	-233.49	236.73	-355.47	427.08	303.66	456,280.73	626,924.53	
7,853.00	2.20	277.00	7,828.84	-234.13	237.40	-358.75	430.19	303.49	456,281.40	626,921.25	
7,946.00	2.50	275.00	7,921.76	-234.49	237.79	-362.55	433.57	303.26	456,281.79	626,917.45	
8,040.00	2.90	283.70	8,015.66	-235.20	238.53	-366.90	437.62	303.03	456,282.53	626,913.10	
8,133.00	2.60	278.50	8,108.55	-236.02	239.40	-371.27	441.76	302.81	456,283.40	626,908.73	
8,226.00	1.90	273.50	8,201.48	-236.40	239.81	-374.89	445.03	302.61	456,283.81	626,905.11	
8,319.00	1.00	261.50	8,294.45	-236.35	239.78	-377.24	446.99	302.44	456,283.78	626,902.76	
8,413.00	0.70	178.40	8,388.44	-235.65	239.09	-378.03	447.29	302.31	456,283.09	626,901.97	
8,506.00	0.40	171.60	8,481.44	-234.76	238.20	-377.97	446.77	302.22	456,282.20	626,902.03	
8,600.00	0.80	229.50	8,575.43	-234.00	237.45	-378.42	446.75	302.11	456,281.45	626,901.58	
8,694.00	1.20	210.60	8,669.42	-232.72	236.18	-379.42	446.92	301.90	456,280.18	626,900.58	
8,786.00	2.10	203.80	8,761.38	-230.34	233.80	-380.59	446.67	301.56	456,277.80	626,899.41	
8,879.00	2.40	220.10	8,854.31	-227.27	230.76	-382.53	446.74	301.10	456,274.76	626,897.47	
8,973.00	2.70	235.30	8,948.22	-224.48	227.99	-385.62	447.98	300.59	456,271.99	626,894.38	
9,066.00	2.20	232.20	9,041.13	-222.11	225.65	-388.83	449.56	300.13	456,269.65	626,891.17	
9,160.00	1.70	219.30	9,135.08	-219.90	223.46	-391.14	450.47	299.74	456,267.46	626,888.86	
9,253.00	2.30	207.90	9,228.02	-217.17	220.75	-392.89	450.65	299.33	456,264.75	626,887.11	



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Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
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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)	
9,347.00	2.00	199.80	9,321.96	-213.95	217.54	-394.33	450.35	298.88	456,261.54	626,885.67	
9,440.00	1.90	200.70	9,414.90	-210.97	214.57	-395.42	449.88	298.49	456,258.57	626,884.58	
9,534.00	1.80	202.80	9,508.85	-208.14	211.75	-396.54	449.54	298.10	456,255.75	626,883.46	
9,627.00	1.90	199.90	9,601.80	-205.34	208.95	-397.63	449.19	297.72	456,252.95	626,882.37	
9,721.00	1.70	204.90	9,695.76	-202.60	206.22	-398.75	448.92	297.35	456,250.22	626,881.25	
9,814.00	1.50	222.80	9,788.72	-200.44	204.08	-400.16	449.19	297.02	456,248.08	626,879.84	
9,908.00	1.60	234.80	9,882.69	-198.76	202.42	-402.07	450.15	296.72	456,246.42	626,877.93	
10,001.00	2.40	258.10	9,975.63	-197.59	201.27	-405.03	452.29	296.42	456,245.27	626,874.97	
10,033.00	2.40	267.00	10,007.60	-197.40	201.10	-406.36	453.39	296.33	456,245.10	626,873.64	
10,105.00	1.20	221.60	10,079.57	-196.74	200.45	-408.36	454.91	296.14	456,244.45	626,871.64	
10,198.00	11.70	162.60	10,171.88	-187.00	190.70	-406.18	448.72	295.15	456,234.70	626,873.82	
10,292.00	22.50	167.60	10,261.60	-160.32	163.95	-399.45	431.79	292.32	456,207.95	626,880.55	
10,385.00	34.40	171.10	10,343.23	-116.90	120.46	-391.54	409.65	287.10	456,164.46	626,888.46	
10,479.00	47.30	178.10	10,414.22	-55.91	59.41	-386.26	390.80	278.74	456,103.41	626,893.74	
10,572.00	60.10	179.40	10,469.16	18.85	-15.36	-384.70	385.00	267.71	456,028.64	626,895.30	
10,617.00	64.30	175.00	10,490.15	58.57	-55.10	-382.72	386.67	261.81	455,988.90	626,897.28	
10,711.00	65.10	174.70	10,530.33	143.13	-139.74	-375.10	400.28	249.57	455,904.26	626,904.90	
10,806.00	66.60	178.30	10,569.20	229.59	-226.24	-369.82	433.53	238.54	455,817.76	626,910.18	
10,901.00	69.70	185.10	10,604.59	317.66	-314.30	-372.49	487.37	229.84	455,729.70	626,907.51	
10,996.00	71.70	186.00	10,635.99	406.97	-403.53	-381.17	555.09	223.37	455,640.47	626,898.83	
11,091.00	75.00	184.50	10,663.21	497.67	-494.15	-389.48	629.19	218.24	455,549.85	626,890.52	
11,164.00	80.90	185.40	10,678.44	568.81	-565.24	-395.65	689.95	214.99	455,478.76	626,884.35	
Pro MWD First Survey: 11164' MD											
11,174.00	79.70	186.10	10,680.12	578.63	-575.05	-396.63	698.57	214.60	455,468.95	626,883.37	
11,186.00	79.70	187.80	10,682.27	590.36	-586.77	-398.06	709.05	214.15	455,457.23	626,881.94	
11,196.00	80.70	189.70	10,683.97	600.11	-596.51	-399.56	717.96	213.82	455,447.49	626,880.44	
11,206.00	81.40	191.90	10,685.53	609.83	-606.21	-401.41	727.07	213.51	455,437.79	626,878.59	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 223H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3026.50usft
Site:	General Kehoe 02-24S-28E RB	MD Reference:	Well @ 3026.50usft
Well:	No. 223H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	MWD-11164'-15343', PTB: 15395'	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)	
11,216.00	81.40	194.40	10,687.02	619.48	-615.84	-403.66	736.34	213.24	455,428.16	626,876.34	
11,226.00	80.80	196.30	10,688.57	629.03	-625.37	-406.28	745.75	213.01	455,418.63	626,873.72	
11,236.00	79.30	197.60	10,690.30	638.48	-634.79	-409.15	755.22	212.80	455,409.21	626,870.85	
11,266.00	75.70	198.40	10,696.79	666.41	-662.64	-418.20	783.57	212.26	455,381.36	626,861.80	
11,282.00	75.60	197.90	10,700.76	681.18	-677.37	-423.02	798.61	211.99	455,366.63	626,856.98	
11,313.00	80.40	193.70	10,707.20	710.42	-706.53	-431.27	827.76	211.40	455,337.47	626,848.73	
11,345.00	85.90	188.90	10,711.02	741.61	-737.67	-437.48	857.64	210.67	455,306.33	626,842.52	
11,376.00	90.30	183.30	10,712.05	772.42	-768.46	-440.77	885.89	209.84	455,275.54	626,839.23	
11,471.00	92.50	180.60	10,709.73	867.35	-863.36	-444.00	970.84	207.22	455,180.64	626,836.00	
11,566.00	91.80	180.70	10,706.16	962.28	-958.28	-445.08	1,056.60	204.91	455,085.72	626,834.92	
11,660.00	91.60	180.30	10,703.37	1,056.24	-1,052.24	-445.90	1,142.82	202.97	454,991.76	626,834.10	
11,755.00	92.20	183.10	10,700.22	1,151.16	-1,147.14	-448.71	1,231.77	201.36	454,896.86	626,831.29	
11,849.00	89.80	180.10	10,698.58	1,245.11	-1,241.07	-451.34	1,320.59	199.98	454,802.93	626,828.66	
11,944.00	89.20	181.70	10,699.41	1,340.10	-1,336.05	-452.83	1,410.70	198.72	454,707.95	626,827.17	
12,038.00	89.70	185.70	10,700.31	1,433.93	-1,429.83	-458.89	1,501.66	197.79	454,614.17	626,821.11	
12,133.00	92.20	187.90	10,698.74	1,528.34	-1,524.13	-470.14	1,595.00	197.14	454,519.87	626,809.86	
12,228.00	91.50	187.40	10,695.67	1,622.55	-1,618.24	-482.78	1,688.72	196.61	454,425.76	626,797.22	
12,322.00	90.10	187.40	10,694.36	1,715.87	-1,711.44	-494.88	1,781.56	196.13	454,332.56	626,785.12	
12,416.00	90.30	184.70	10,694.03	1,809.42	-1,804.91	-504.79	1,874.17	195.62	454,239.09	626,775.21	
12,511.00	91.00	179.60	10,692.95	1,904.34	-1,899.81	-508.35	1,966.64	194.98	454,144.19	626,771.65	
12,605.00	89.80	177.60	10,692.30	1,998.28	-1,993.77	-506.06	2,056.99	194.24	454,050.23	626,773.94	
12,701.00	90.40	176.50	10,692.13	2,094.10	-2,089.64	-501.11	2,148.89	193.49	453,954.36	626,778.89	
12,795.00	91.60	180.50	10,690.49	2,188.01	-2,183.57	-498.65	2,239.79	192.86	453,860.43	626,781.35	
12,890.00	91.10	180.20	10,688.25	2,282.98	-2,278.54	-499.23	2,332.60	192.36	453,765.46	626,780.77	
12,984.00	87.80	177.80	10,689.15	2,376.92	-2,372.51	-497.60	2,424.13	191.85	453,671.49	626,782.40	
13,080.00	88.60	179.50	10,692.17	2,472.82	-2,468.43	-495.33	2,517.64	191.35	453,575.57	626,784.67	
13,174.00	90.10	181.70	10,693.23	2,566.81	-2,562.41	-496.32	2,610.03	190.96	453,481.59	626,783.68	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 223H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3026.50usft
Site:	General Kehoe 02-24S-28E RB	MD Reference:	Well @ 3026.50usft
Well:	No. 223H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	MWD-11164'-15343', PTB: 15395'	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)	
13,270.00	90.90	182.40	10,692.40	2,662.77	-2,658.34	-499.75	2,704.91	190.65	453,385.66	626,780.25	
13,364.00	89.60	179.50	10,691.99	2,756.75	-2,752.32	-501.31	2,797.60	190.32	453,291.68	626,778.69	
13,459.00	92.30	182.10	10,690.41	2,851.72	-2,847.28	-502.64	2,891.30	190.01	453,196.72	626,777.36	
13,553.00	92.60	181.00	10,686.39	2,945.62	-2,941.15	-505.18	2,984.22	189.75	453,102.85	626,774.82	
13,648.00	91.80	179.90	10,682.75	3,040.55	-3,036.08	-505.92	3,077.94	189.46	453,007.92	626,774.08	
13,743.00	89.00	176.20	10,682.08	3,135.43	-3,131.00	-502.69	3,171.09	189.12	452,913.00	626,777.31	
13,838.00	90.40	175.90	10,682.58	3,230.14	-3,225.77	-496.15	3,263.70	188.74	452,818.23	626,783.85	
13,934.00	91.20	177.40	10,681.24	3,325.90	-3,321.59	-490.54	3,357.62	188.40	452,722.41	626,789.46	
14,029.00	85.10	183.00	10,684.31	3,420.77	-3,416.46	-490.86	3,451.54	188.18	452,627.54	626,789.14	
14,124.00	93.20	190.90	10,685.72	3,515.01	-3,510.59	-502.34	3,546.35	188.14	452,533.41	626,777.66	
14,218.00	91.30	188.60	10,682.03	3,607.71	-3,603.16	-518.25	3,640.23	188.18	452,440.84	626,761.75	
14,313.00	92.30	185.00	10,679.04	3,702.08	-3,697.42	-529.49	3,735.14	188.15	452,346.58	626,750.51	
14,408.00	92.20	185.10	10,675.31	3,796.71	-3,791.98	-537.84	3,829.94	188.07	452,252.02	626,742.16	
14,503.00	90.10	181.30	10,673.41	3,891.56	-3,886.79	-543.14	3,924.56	187.96	452,157.21	626,736.86	
14,598.00	90.20	181.40	10,673.16	3,986.55	-3,981.77	-545.38	4,018.94	187.80	452,062.23	626,734.62	
14,692.00	88.80	180.80	10,673.98	4,080.54	-4,075.74	-547.19	4,112.31	187.65	451,968.26	626,732.81	
14,787.00	87.90	180.70	10,676.71	4,175.50	-4,170.69	-548.43	4,206.60	187.49	451,873.31	626,731.57	
14,881.00	89.50	180.30	10,678.85	4,269.47	-4,264.66	-549.25	4,299.89	187.34	451,779.34	626,730.75	
14,975.00	88.70	179.40	10,680.32	4,363.45	-4,358.65	-549.00	4,393.09	187.18	451,685.35	626,731.00	
15,070.00	87.40	179.20	10,683.55	4,458.37	-4,453.58	-547.84	4,487.15	187.01	451,590.42	626,732.16	
15,164.00	92.30	180.30	10,683.80	4,552.33	-4,547.55	-547.43	4,580.38	186.86	451,496.45	626,732.57	
15,259.00	90.10	181.30	10,681.81	4,647.31	-4,642.52	-548.76	4,674.84	186.74	451,401.48	626,731.24	
15,343.00	90.50	177.70	10,681.37	4,731.28	-4,726.50	-548.03	4,758.16	186.61	451,317.50	626,731.97	
Last Survey: 15343' MD											
15,395.00	90.50	177.70	10,680.92	4,783.21	-4,778.45	-545.94	4,809.54	186.52	451,265.55	626,734.06	
PTB: 15395' MD											



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 223H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3026.50usft
Site:	General Kehoe 02-24S-28E RB	MD Reference:	Well @ 3026.50usft
Well:	No. 223H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	MWD-11164'-15343', PTB: 15395'	Database:	WellPlanner1

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,164.00	10,678.44	-565.24	-395.65	Pro MWD First Survey: 11164' MD
15,343.00	10,681.37	-4,726.50	-548.03	Last Survey: 15343' MD
15,395.00	10,680.92	-4,778.45	-545.94	PTB: 15395' MD