



ProDIRECTIONAL

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SEP 19 2019

DISTRICT 7 / ARTESIA O.C.D.



General Kehoe 02-24S-28E RB No. 203H
Eddy County, NM

August 06, 2019

Job No. LNM5210319

ORIGINAL

Certified Report



PRODIRECTIONAL

Survey Certification Letter

August 06, 2019



Operator Name: Matador Resources
Well Name: General Kehoe 02-24S-28E RB No. 203H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 297
Job Number: LNM5210319

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	493' MD – 14,463' MD	14,519' MD	05/27/19 – 07/11/19	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. 203H
OH

Survey: ProDirectional

Survey Report

06 August, 2019

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SEP 19 2019
DISTRICT/ARTESIA/O.C.D.





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 203H
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. 203H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD	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. 203H, LNM5210319					
Well Position	+N/-S	0.00 usft	Northing:	456,045.00 usft	Latitude:	32.253437
	+E/-W	0.00 usft	Easting:	627,250.00 usft	Longitude:	-104.055419
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,998.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/20/2019	7.08	59.98	47,904.20

Design	Gyro-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	180.52



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Well:	No. 203H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD	Database:	WellPlanner1

Survey Program		Date	8/6/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
118.70	418.70	Survey #1 (OH)	MWD+HRGM	OWSG MWD + HRGM	
493.00	14,519.00	Survey #2 (OH)	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	456,045.00	627,250.00
118.70	1.00	224.95	118.69	0.74	-0.73	-0.73	1.04	224.95	456,044.27	627,249.27
281.70	1.00	207.95	281.67	3.02	-3.00	-2.40	3.84	218.73	456,042.00	627,247.60
375.70	1.20	112.95	375.66	4.12	-4.10	-1.88	4.52	204.62	456,040.90	627,248.12
418.70	0.90	108.95	418.65	4.40	-4.39	-1.15	4.54	194.65	456,040.61	627,248.85
493.00	1.00	122.90	492.94	4.93	-4.93	-0.05	4.93	180.59	456,040.07	627,249.95
Pro MWD First Survey: 493' MD										
582.00	1.20	272.20	581.93	5.32	-5.32	-0.33	5.33	183.55	456,039.68	627,249.67
672.00	1.40	248.50	671.91	5.71	-5.68	-2.29	6.13	201.99	456,039.32	627,247.71
762.00	1.10	258.00	761.89	6.30	-6.27	-4.16	7.52	213.59	456,038.73	627,245.84
853.00	1.00	279.90	852.88	6.36	-6.31	-5.80	8.57	222.58	456,038.69	627,244.20
945.00	1.20	267.30	944.86	6.29	-6.22	-7.55	9.78	230.53	456,038.78	627,242.45
1,035.00	1.00	297.90	1,034.84	5.98	-5.90	-9.19	10.92	237.31	456,039.10	627,240.81
1,125.00	0.70	278.20	1,124.83	5.54	-5.45	-10.43	11.77	242.40	456,039.55	627,239.57
1,216.00	0.80	303.70	1,215.83	5.12	-5.02	-11.51	12.55	246.43	456,039.98	627,238.49
1,308.00	0.50	263.10	1,307.82	4.82	-4.71	-12.44	13.30	249.26	456,040.29	627,237.56
1,397.00	0.30	7.30	1,396.82	4.64	-4.53	-12.79	13.57	250.52	456,040.47	627,237.21
1,491.00	0.30	21.20	1,490.82	4.17	-4.05	-12.67	13.31	252.27	456,040.95	627,237.33
1,584.00	0.80	328.30	1,583.81	3.39	-3.27	-12.93	13.33	255.79	456,041.73	627,237.07
1,678.00	1.00	300.70	1,677.80	2.42	-2.30	-13.98	14.16	260.67	456,042.70	627,236.02
1,772.00	2.00	294.90	1,771.77	1.33	-1.19	-16.17	16.21	265.80	456,043.81	627,233.83



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 203H
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. 203H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-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)	
1,865.00	2.20	300.20	1,864.71	-0.22	0.39	-19.18	19.19	271.18	456,045.39	627,230.82	
1,958.00	2.60	301.10	1,957.62	-2.18	2.38	-22.53	22.66	276.03	456,047.38	627,227.47	
2,051.00	3.70	304.80	2,050.48	-4.94	5.18	-26.80	27.30	280.95	456,050.18	627,223.20	
2,145.00	4.40	304.60	2,144.25	-8.67	8.96	-32.26	33.48	285.53	456,053.96	627,217.74	
2,238.00	4.00	307.50	2,237.00	-12.62	12.96	-37.77	39.94	288.94	456,057.96	627,212.23	
2,332.00	4.00	317.50	2,330.77	-16.99	17.38	-42.59	46.00	292.20	456,062.38	627,207.41	
2,425.00	3.50	317.50	2,423.57	-21.44	21.86	-46.70	51.56	295.09	456,066.86	627,203.30	
2,518.00	5.20	305.10	2,516.30	-25.90	26.38	-52.06	58.37	296.87	456,071.38	627,197.94	
2,612.00	6.10	302.40	2,609.84	-30.96	31.50	-59.77	67.56	297.79	456,076.50	627,190.23	
2,676.00	5.70	301.40	2,673.50	-34.39	34.98	-65.35	74.12	298.16	456,079.98	627,184.65	
2,804.00	5.80	304.40	2,800.86	-41.25	41.95	-76.11	86.91	298.86	456,086.95	627,173.89	
2,898.00	5.90	307.20	2,894.37	-46.79	47.55	-83.88	96.42	299.55	456,092.55	627,166.12	
2,991.00	6.10	308.60	2,986.86	-52.69	53.52	-91.55	106.05	300.31	456,098.52	627,158.45	
3,085.00	6.20	309.60	3,080.32	-58.97	59.88	-99.36	116.01	301.07	456,104.88	627,150.64	
3,178.00	7.10	299.40	3,172.70	-64.91	65.90	-108.24	126.72	301.33	456,110.90	627,141.76	
3,272.00	7.30	296.70	3,265.96	-70.35	71.43	-118.64	138.48	301.05	456,116.43	627,131.36	
3,365.00	7.20	297.60	3,358.21	-75.61	76.79	-129.08	150.19	300.75	456,121.79	627,120.92	
3,459.00	6.90	297.10	3,451.50	-80.82	82.09	-139.33	161.71	300.51	456,127.09	627,110.67	
3,552.00	6.20	296.60	3,543.89	-85.53	86.88	-148.79	172.30	300.28	456,131.88	627,101.21	
3,646.00	6.10	296.50	3,637.35	-89.95	91.38	-157.80	182.35	300.08	456,136.38	627,092.20	
3,739.00	6.20	295.50	3,729.82	-94.23	95.75	-166.75	192.29	299.86	456,140.75	627,083.25	
3,833.00	6.20	295.50	3,823.27	-98.52	100.12	-175.92	202.41	299.65	456,145.12	627,074.08	
3,927.00	6.30	296.60	3,916.71	-102.93	104.62	-185.11	212.63	299.47	456,149.62	627,064.89	
4,020.00	6.10	296.40	4,009.17	-107.33	109.10	-194.10	222.66	299.34	456,154.10	627,055.90	
4,113.00	5.90	296.30	4,101.66	-111.57	113.41	-202.81	232.37	299.21	456,158.41	627,047.19	
4,207.00	5.40	294.20	4,195.20	-115.45	117.37	-211.18	241.60	299.06	456,162.37	627,038.82	
4,301.00	5.60	294.20	4,288.77	-119.06	121.06	-219.39	250.58	298.89	456,166.06	627,030.61	



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Well:	No. 203H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD	Database:	WellPlanner1

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)
4,394.00	5.40	294.40	4,381.34	-122.66	124.73	-227.52	259.46	298.73	456,169.73	627,022.48
4,488.00	5.60	295.70	4,474.91	-126.40	128.54	-235.68	268.45	298.61	456,173.54	627,014.32
4,581.00	5.50	295.00	4,567.47	-130.18	132.40	-243.81	277.43	298.50	456,177.40	627,006.19
4,675.00	5.60	296.90	4,661.03	-134.08	136.37	-251.98	286.52	298.42	456,181.37	626,998.02
4,768.00	5.40	295.60	4,753.60	-137.95	140.32	-259.97	295.42	298.36	456,185.32	626,990.03
4,862.00	5.10	292.10	4,847.21	-141.36	143.80	-267.83	303.99	298.23	456,188.80	626,982.17
4,955.00	6.00	292.90	4,939.77	-144.74	147.25	-276.14	312.95	298.07	456,192.25	626,973.86
5,048.00	6.90	295.80	5,032.18	-148.97	151.57	-285.65	323.37	297.95	456,196.57	626,964.35
5,142.00	6.10	292.00	5,125.58	-153.21	155.90	-295.36	333.98	297.83	456,200.90	626,954.64
5,235.00	5.80	292.30	5,218.07	-156.76	159.53	-304.29	343.57	297.67	456,204.53	626,945.71
5,328.00	5.70	291.80	5,310.61	-160.18	163.03	-312.93	352.85	297.52	456,208.03	626,937.07
5,421.00	6.00	292.90	5,403.12	-163.71	166.64	-321.69	362.29	297.38	456,211.64	626,928.31
5,515.00	7.00	291.80	5,496.52	-167.66	170.68	-331.54	372.89	297.24	456,215.68	626,918.46
5,608.00	6.40	289.60	5,588.88	-171.41	174.52	-341.68	383.67	297.06	456,219.52	626,908.32
5,701.00	6.20	294.40	5,681.32	-175.14	178.33	-351.14	393.83	296.92	456,223.33	626,898.86
5,795.00	5.70	303.50	5,774.82	-179.74	183.01	-359.65	403.54	296.97	456,228.01	626,890.35
5,888.00	5.40	300.80	5,867.38	-184.46	187.80	-367.26	412.49	297.08	456,232.80	626,882.74
5,981.00	5.20	300.50	5,959.98	-188.77	192.18	-374.65	421.07	297.16	456,237.18	626,875.35
6,074.00	4.70	296.00	6,052.64	-192.51	195.99	-381.71	429.08	297.18	456,240.99	626,868.29
6,168.00	4.30	294.30	6,146.35	-195.59	199.12	-388.38	436.45	297.14	456,244.12	626,861.62
6,261.00	4.00	294.40	6,239.10	-198.31	201.90	-394.51	443.17	297.10	456,246.90	626,855.49
6,354.00	3.70	292.10	6,331.89	-200.73	204.37	-400.25	449.40	297.05	456,249.37	626,849.75
6,448.00	2.60	294.60	6,425.75	-202.71	206.40	-405.00	454.56	297.00	456,251.40	626,845.00
6,541.00	3.10	291.80	6,518.63	-204.49	208.21	-409.25	459.17	296.97	456,253.21	626,840.75
6,634.00	3.60	289.60	6,611.47	-206.35	210.12	-414.33	464.57	296.89	456,255.12	626,835.67
6,727.00	3.90	299.30	6,704.28	-208.83	212.65	-419.84	470.62	296.86	456,257.65	626,830.16
6,820.00	4.20	324.20	6,797.05	-213.10	216.96	-424.59	476.81	297.07	456,261.96	626,825.41



ProDirectional
Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 203H
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. 203H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-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)	
6,914.00	4.40	356.60	6,890.80	-219.47	223.35	-426.82	481.73	297.62	456,268.35	626,823.18	
7,007.00	3.40	340.60	6,983.59	-225.62	229.51	-427.95	485.61	298.21	456,274.51	626,822.05	
7,101.00	2.90	322.30	7,077.45	-230.11	234.02	-430.33	489.85	298.54	456,279.02	626,819.67	
7,194.00	2.50	308.51	7,170.34	-233.21	237.15	-433.36	494.00	298.69	456,282.15	626,816.64	
7,288.00	2.50	308.50	7,264.25	-235.73	239.70	-436.56	498.04	298.77	456,284.70	626,813.44	
7,381.00	2.40	295.90	7,357.17	-237.81	241.82	-439.90	501.99	298.80	456,286.82	626,810.10	
7,475.00	3.30	319.90	7,451.06	-240.71	244.74	-443.42	506.48	298.90	456,289.74	626,806.58	
7,568.00	3.10	320.40	7,543.91	-244.66	248.73	-446.74	511.32	299.11	456,293.73	626,803.26	
7,662.00	0.80	348.00	7,637.85	-247.25	251.33	-448.50	514.12	299.27	456,296.33	626,801.50	
7,755.00	0.70	58.40	7,730.84	-248.19	252.26	-448.15	514.27	299.38	456,297.26	626,801.85	
7,849.00	0.10	62.60	7,824.84	-248.53	252.60	-447.59	513.95	299.44	456,297.60	626,802.41	
7,942.00	1.00	239.10	7,917.84	-248.14	252.22	-448.21	514.31	299.37	456,297.22	626,801.79	
8,036.00	0.30	131.50	8,011.83	-247.56	251.64	-448.73	514.47	299.28	456,296.64	626,801.27	
8,130.00	1.80	130.10	8,105.81	-246.45	250.52	-447.42	512.78	299.25	456,295.52	626,802.58	
8,222.00	1.40	133.20	8,197.78	-244.77	248.82	-445.49	510.27	299.18	456,293.82	626,804.51	
8,316.00	1.40	143.30	8,291.75	-243.08	247.12	-443.97	508.11	299.10	456,292.12	626,806.03	
8,409.00	1.30	164.30	8,384.73	-241.16	245.19	-443.01	506.33	298.96	456,290.19	626,806.99	
8,503.00	1.10	219.60	8,478.71	-239.44	243.47	-443.29	505.75	298.78	456,288.47	626,806.71	
8,596.00	1.00	235.10	8,571.69	-238.27	242.32	-444.53	506.28	298.60	456,287.32	626,805.47	
8,690.00	0.90	201.80	8,665.68	-237.11	241.16	-445.48	506.56	298.43	456,286.16	626,804.52	
8,783.00	1.20	179.50	8,758.66	-235.45	239.51	-445.74	506.01	298.25	456,284.51	626,804.26	
8,877.00	1.60	173.00	8,852.64	-233.17	237.22	-445.57	504.78	298.03	456,282.22	626,804.43	
8,970.00	1.60	147.10	8,945.60	-230.80	234.84	-444.71	502.91	297.84	456,279.84	626,805.29	
9,064.00	1.60	148.40	9,039.56	-228.59	232.62	-443.31	500.63	297.69	456,277.62	626,806.69	
9,157.00	2.00	131.20	9,132.52	-226.43	230.45	-441.40	497.94	297.57	456,275.45	626,808.60	
9,260.00	8.40	149.40	9,235.05	-218.81	222.78	-436.22	489.81	297.05	456,267.78	626,813.78	
9,306.00	14.40	159.90	9,280.12	-210.58	214.51	-432.54	482.81	296.38	456,259.51	626,817.46	



ProDirectional Survey Report



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Site:	General Kehoe 02-24S-28E RB	MD Reference:	Well @ 3026.50usft
Well:	No. 203H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-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)	
9,331.00	17.30	163.00	9,304.17	-204.12	208.03	-430.38	478.02	295.80	456,253.03	626,819.62	
9,352.00	19.80	166.70	9,324.08	-197.69	201.59	-428.65	473.68	295.19	456,246.59	626,821.35	
9,399.00	22.80	164.00	9,367.86	-181.22	185.08	-424.31	462.92	293.57	456,230.08	626,825.69	
9,446.00	25.30	163.90	9,410.78	-162.87	166.68	-419.01	450.94	291.69	456,211.68	626,830.99	
9,492.00	28.30	165.40	9,451.84	-142.92	146.67	-413.54	438.78	289.53	456,191.67	626,836.46	
9,539.00	32.20	170.30	9,492.43	-119.82	123.54	-408.61	426.88	286.82	456,168.54	626,841.39	
9,585.00	37.70	176.60	9,530.14	-93.70	97.39	-405.71	417.24	283.50	456,142.39	626,844.29	
9,633.00	43.60	180.30	9,566.54	-62.48	66.15	-404.93	410.30	279.28	456,111.15	626,845.07	
9,680.00	50.50	184.70	9,598.56	-28.13	31.83	-406.50	407.74	274.48	456,076.83	626,843.50	
9,726.00	57.60	185.90	9,625.54	8.95	-5.23	-409.96	409.99	269.27	456,039.77	626,840.04	
9,773.00	65.00	185.10	9,648.10	49.99	-46.24	-413.89	416.47	263.63	455,998.76	626,836.11	
9,859.00	72.60	183.90	9,679.18	129.92	-126.11	-420.16	438.68	253.29	455,918.89	626,829.84	
9,891.00	75.70	184.50	9,687.92	160.63	-156.81	-422.41	450.58	249.63	455,888.19	626,827.59	
9,954.00	83.60	184.50	9,699.23	222.41	-218.54	-427.27	479.92	242.91	455,826.46	626,822.73	
9,985.00	90.90	183.90	9,700.71	253.29	-249.40	-429.54	496.69	239.86	455,795.60	626,820.46	
10,048.00	98.20	178.90	9,695.72	316.02	-312.12	-431.09	532.22	234.09	455,732.88	626,818.91	
10,143.00	93.60	176.80	9,685.95	410.38	-406.52	-427.53	589.95	226.44	455,638.48	626,822.47	
10,238.00	89.80	176.30	9,683.13	505.10	-501.29	-421.82	655.15	220.08	455,543.71	626,828.18	
10,332.00	88.20	182.40	9,684.78	599.01	-595.22	-420.75	728.92	215.26	455,449.78	626,829.25	
10,427.00	88.20	183.90	9,687.76	693.87	-690.03	-425.97	810.92	211.69	455,354.97	626,824.03	
10,522.00	87.60	184.10	9,691.24	788.63	-784.73	-432.59	896.07	208.87	455,260.27	626,817.41	
10,616.00	93.10	183.60	9,690.67	882.43	-878.48	-438.90	982.02	206.55	455,166.52	626,811.10	
10,711.00	93.50	183.00	9,685.20	977.16	-973.17	-444.36	1,069.82	204.54	455,071.83	626,805.64	
10,806.00	93.10	182.60	9,679.73	1,071.93	-1,067.90	-448.99	1,158.45	202.80	454,977.10	626,801.01	
10,900.00	93.40	182.50	9,674.40	1,165.72	-1,161.65	-453.17	1,246.91	201.31	454,883.35	626,796.83	
10,996.00	92.00	180.30	9,669.88	1,261.59	-1,257.51	-455.51	1,337.47	199.91	454,787.49	626,794.49	
11,090.00	89.60	178.00	9,668.57	1,355.54	-1,351.47	-454.12	1,425.73	198.57	454,693.53	626,795.88	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 203H
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. 203H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-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)	
11,185.00	91.00	178.10	9,668.07	1,450.45	-1,446.42	-450.88	1,515.06	197.31	454,598.58	626,799.12	
11,280.00	89.40	178.10	9,667.74	1,545.36	-1,541.36	-447.74	1,605.07	196.20	454,503.64	626,802.26	
11,375.00	88.60	179.80	9,669.39	1,640.31	-1,636.33	-445.99	1,696.02	195.25	454,408.67	626,804.01	
11,470.00	87.20	182.40	9,672.88	1,735.23	-1,731.23	-447.82	1,788.21	194.50	454,313.77	626,802.18	
11,564.00	87.10	183.00	9,677.55	1,829.04	-1,825.01	-452.24	1,880.21	193.92	454,219.99	626,797.76	
11,659.00	87.50	183.60	9,682.03	1,923.82	-1,919.75	-457.70	1,973.56	193.41	454,125.25	626,792.30	
11,754.00	89.20	184.70	9,684.76	2,018.59	-2,014.46	-464.57	2,067.33	192.99	454,030.54	626,785.43	
11,848.00	88.90	185.00	9,686.32	2,112.31	-2,108.11	-472.52	2,160.41	192.63	453,936.89	626,777.48	
11,942.00	91.60	185.10	9,685.91	2,206.00	-2,201.73	-480.79	2,253.62	192.32	453,843.27	626,769.21	
12,037.00	93.40	183.00	9,681.76	2,300.72	-2,296.40	-487.50	2,347.57	191.99	453,748.60	626,762.50	
12,132.00	93.10	180.70	9,676.38	2,395.54	-2,391.19	-490.56	2,440.99	191.59	453,653.81	626,759.44	
12,227.00	89.80	178.60	9,673.97	2,490.48	-2,486.14	-489.98	2,533.96	191.15	453,558.86	626,760.02	
12,321.00	90.90	179.10	9,673.40	2,584.44	-2,580.11	-488.09	2,625.87	190.71	453,464.89	626,761.91	
12,415.00	90.40	179.00	9,672.33	2,678.40	-2,674.09	-486.53	2,717.99	190.31	453,370.91	626,763.47	
12,510.00	90.30	179.10	9,671.75	2,773.37	-2,769.08	-484.96	2,811.22	189.93	453,275.92	626,765.04	
12,604.00	91.30	179.60	9,670.44	2,867.34	-2,863.06	-483.89	2,903.67	189.59	453,181.94	626,766.11	
12,700.00	89.10	178.80	9,670.11	2,963.30	-2,959.05	-482.55	2,998.13	189.26	453,085.95	626,767.45	
12,794.00	90.50	179.30	9,670.43	3,057.27	-3,053.03	-480.99	3,090.69	188.95	452,991.97	626,769.01	
12,889.00	91.00	180.00	9,669.19	3,152.25	-3,148.02	-480.41	3,184.47	188.68	452,896.98	626,769.59	
12,983.00	90.40	180.30	9,668.04	3,246.24	-3,242.01	-480.66	3,277.45	188.43	452,802.99	626,769.34	
13,078.00	92.20	181.30	9,665.89	3,341.21	-3,336.97	-481.98	3,371.60	188.22	452,708.03	626,768.02	
13,173.00	89.60	180.30	9,664.39	3,436.19	-3,431.94	-483.31	3,465.81	188.02	452,613.06	626,766.69	
13,269.00	90.50	180.30	9,664.31	3,532.19	-3,527.94	-483.81	3,560.96	187.81	452,517.06	626,766.19	
13,363.00	90.30	180.80	9,663.65	3,626.18	-3,621.93	-484.71	3,654.22	187.62	452,423.07	626,765.29	
13,458.00	89.00	180.60	9,664.24	3,721.18	-3,716.92	-485.87	3,748.54	187.45	452,328.08	626,764.13	
13,552.00	87.80	181.30	9,666.86	3,815.14	-3,810.87	-487.43	3,841.92	187.29	452,234.13	626,762.57	
13,647.00	92.10	182.70	9,666.94	3,910.08	-3,905.79	-490.75	3,936.50	187.16	452,139.21	626,759.25	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 203H
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. 203H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-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)	
13,742.00	88.70	182.30	9,666.28	4,005.01	-4,000.68	-494.89	4,031.17	187.05	452,044.32	626,755.11	
13,837.00	88.20	182.60	9,668.85	4,099.92	-4,095.56	-498.95	4,125.84	186.95	451,949.44	626,751.05	
13,933.00	90.90	183.90	9,669.60	4,195.80	-4,191.39	-504.39	4,221.63	186.86	451,853.61	626,745.61	
14,028.00	90.20	182.60	9,668.69	4,290.68	-4,286.23	-509.78	4,316.44	186.78	451,758.77	626,740.22	
14,123.00	90.60	180.50	9,668.03	4,385.66	-4,381.19	-512.35	4,411.04	186.67	451,663.81	626,737.65	
14,217.00	89.50	179.60	9,667.95	4,479.65	-4,475.19	-512.43	4,504.43	186.53	451,569.81	626,737.57	
14,312.00	91.90	181.40	9,666.79	4,574.63	-4,570.16	-513.26	4,598.89	186.41	451,474.84	626,736.74	
14,407.00	89.90	180.50	9,665.29	4,669.61	-4,665.13	-514.83	4,693.45	186.30	451,379.87	626,735.17	
14,463.00	89.90	180.50	9,665.39	4,725.61	-4,721.13	-515.32	4,749.17	186.23	451,323.87	626,734.68	
Last Survey: 14463' MD											
14,519.00	89.90	180.50	9,665.49	4,781.61	-4,777.13	-515.81	4,804.90	186.16	451,267.87	626,734.19	
PTB: 14519' MD											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
493.00	492.94	-4.93	-0.05	Pro MWD First Survey: 493' MD
14,463.00	9,665.39	-4,721.13	-515.32	Last Survey: 14463' MD
14,519.00	9,665.49	-4,777.13	-515.81	PTB: 14519' MD