



PRODIRECTIONAL

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DISTRICT II-ARTESIA O.C.D.



30-015-45177

Stebbins 20 Fed No. 204H

Eddy County, NM

September 06, 2018

Job No. LNM5179618

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

September 06, 2018



Operator Name: Matador Resources
Well Name: Stebbins 20 Fed No. 204H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5179618

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	506' MD – 13,987' MD	14,084' MD	07/20/18 – 08/06/18	MWD-OWSG

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

Stebbins 20 Fed

No. 204H

OH

Survey: ProDirectional

Survey Report

06 September, 2018





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM(NAD 83)	TVD Reference:	Well @ 3273.50usft
Site:	Stebbins 20 Fed	MD Reference:	Well @ 3273.50usft
Well:	No. 204H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-58.5'-13987', Proj. 14084'	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	Stebbins 20 Fed		
Site Position:		Northing:	564,912.00 usft
From:	Map	Easting:	611,710.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.552792
		Longitude:	-104.104936
		Grid Convergence:	0.12 °

Well	No. 204H					
Well Position	+N/-S	0.00 usft	Northing:	564,912.00 usft	Latitude:	32.552792
	+E/-W	0.00 usft	Easting:	611,710.00 usft	Longitude:	-104.104936
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,245.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/16/2018	7.30	60.35	48,069.20

Design		Gyro-MWD-58.5'-13987', Proj. 14084'		
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	90.05



ProDirectional Survey Report



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Well:	No. 204H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-58.5'-13987', Proj. 14084'	Database:	WellPlanner1

Survey Program		Date	9/6/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
58.50	350.50	MWD (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro	
506.00	14,084.00	Survey #2 (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	564,912.00	611,710.00
	58.50	0.29	103.48	58.50	0.14	-0.03	0.14	0.15	103.48	564,911.97	611,710.14
	108.50	0.22	169.72	108.50	0.28	-0.16	0.28	0.33	119.15	564,911.84	611,710.28
	158.50	0.10	152.90	158.50	0.32	-0.29	0.32	0.43	132.25	564,911.71	611,710.32
	208.50	0.21	130.35	208.50	0.41	-0.39	0.41	0.57	133.50	564,911.61	611,710.41
	258.50	0.18	170.65	258.50	0.49	-0.53	0.49	0.72	136.87	564,911.47	611,710.49
	308.50	0.26	164.27	308.50	0.54	-0.71	0.54	0.89	143.03	564,911.29	611,710.54
	350.50	0.17	332.67	350.50	0.53	-0.75	0.53	0.92	144.53	564,911.25	611,710.53
	506.00	0.80	2.60	505.99	0.48	0.54	0.48	0.72	41.51	564,912.54	611,710.48
Pro MWD First Survey: 506' MD											
	597.00	0.80	36.20	596.98	0.88	1.69	0.88	1.90	27.59	564,913.69	611,710.88
	689.00	1.00	71.10	688.97	2.02	2.47	2.02	3.19	39.34	564,914.47	611,712.02
	780.00	1.30	93.70	779.95	3.80	2.66	3.80	4.64	55.06	564,914.66	611,713.80
	871.00	1.90	118.30	870.92	6.16	1.87	6.16	6.44	73.08	564,913.87	611,716.16
	963.00	2.20	116.30	962.86	9.09	0.37	9.09	9.09	87.68	564,912.37	611,719.09
	1,056.00	2.20	127.50	1,055.79	12.10	-1.51	12.10	12.20	97.11	564,910.49	611,722.10
	1,141.00	2.20	134.10	1,140.73	14.57	-3.64	14.57	15.02	104.02	564,908.36	611,724.57
	1,248.00	2.50	139.00	1,247.64	17.58	-6.83	17.57	18.85	111.23	564,905.17	611,727.57
	1,341.00	2.30	135.40	1,340.56	20.22	-9.69	20.22	22.42	115.60	564,902.31	611,730.22
	1,434.00	1.00	77.40	1,433.52	22.33	-10.84	22.32	24.81	115.90	564,901.16	611,732.32
	1,528.00	1.60	39.00	1,527.50	23.95	-9.64	23.94	25.81	111.93	564,902.36	611,733.94



ProDirectional Survey Report



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Well:	No. 204H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-58.5'-13987', Proj. 14084'	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)	
1,621.00	1.70	18.90	1,620.46	25.21	-7.33	25.21	26.25	106.21	564,904.67	611,735.21	
1,715.00	1.90	4.00	1,714.42	25.77	-4.45	25.77	26.15	99.80	564,907.55	611,735.77	
1,808.00	2.40	353.40	1,807.35	25.65	-0.98	25.65	25.67	92.19	564,911.02	611,735.65	
1,902.00	4.40	339.90	1,901.18	24.18	4.36	24.19	24.58	79.78	564,916.36	611,734.19	
1,995.00	6.70	338.40	1,993.74	20.95	12.76	20.96	24.54	58.68	564,924.76	611,730.96	
2,089.00	7.10	341.70	2,087.06	17.10	23.37	17.12	28.97	36.22	564,935.37	611,727.12	
2,182.00	7.50	343.60	2,179.31	13.57	34.65	13.60	37.22	21.43	564,946.65	611,723.60	
2,275.00	7.60	342.10	2,271.50	9.96	46.33	10.00	47.39	12.18	564,958.33	611,720.00	
2,369.00	7.60	342.90	2,364.67	6.21	58.18	6.26	58.52	6.14	564,970.18	611,716.26	
2,462.00	7.50	343.10	2,456.87	2.63	69.87	2.69	69.92	2.20	564,981.87	611,712.69	
2,555.00	7.30	343.30	2,549.09	-0.85	81.33	-0.78	81.34	359.45	564,993.33	611,709.22	
2,649.00	7.10	342.80	2,642.35	-4.29	92.60	-4.21	92.70	357.40	565,004.60	611,705.79	
2,742.00	6.90	343.20	2,734.66	-7.61	103.44	-7.52	103.71	355.84	565,015.44	611,702.48	
2,836.00	6.60	344.20	2,828.01	-10.73	114.05	-10.63	114.54	354.68	565,026.05	611,699.37	
2,930.00	6.50	344.30	2,921.39	-13.65	124.37	-13.54	125.10	353.79	565,036.37	611,696.46	
3,023.00	6.50	343.60	3,013.80	-16.56	134.48	-16.45	135.48	353.03	565,046.48	611,693.55	
3,054.00	6.50	344.10	3,044.60	-17.54	137.85	-17.42	138.95	352.80	565,049.85	611,692.58	
3,210.00	6.30	340.40	3,199.62	-22.85	154.41	-22.71	156.07	351.63	565,066.41	611,687.29	
3,303.00	8.00	345.70	3,291.90	-26.17	165.49	-26.02	167.52	351.06	565,077.49	611,683.98	
3,397.00	9.70	347.60	3,384.78	-29.50	179.56	-29.34	181.94	350.72	565,091.56	611,680.66	
3,490.00	7.20	346.20	3,476.76	-32.58	192.88	-32.41	195.58	350.46	565,104.88	611,677.59	
3,583.00	6.60	344.60	3,569.09	-35.40	203.69	-35.22	206.71	350.19	565,115.69	611,674.78	
3,677.00	7.10	343.30	3,662.41	-38.51	214.46	-38.33	217.86	349.87	565,126.46	611,671.67	
3,770.00	6.90	343.40	3,754.72	-41.77	225.32	-41.57	229.12	349.55	565,137.32	611,668.43	
3,864.00	6.60	340.50	3,848.07	-45.20	235.82	-44.99	240.08	349.20	565,147.82	611,665.01	
3,958.00	6.40	341.40	3,941.47	-48.68	245.88	-48.47	250.61	348.85	565,157.88	611,661.53	
4,052.00	6.20	342.60	4,034.90	-51.88	255.69	-51.65	260.85	348.58	565,167.69	611,658.35	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Stebbins 20 Fed
Well: No. 204H
Wellbore: OH
Design: Gyro-MWD-58.5'-13987', Proj. 14084

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3273.50usft
MD Reference: Well @ 3273.50usft
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)	
4,144.00	6.00	344.30	4,126.38	-54.67	265.06	-54.44	270.59	348.39	565,177.06	611,655.56	
4,238.00	5.80	343.70	4,219.88	-57.34	274.35	-57.10	280.23	348.24	565,186.35	611,652.90	
4,331.00	5.40	342.00	4,312.44	-60.02	283.02	-59.77	289.26	348.07	565,195.02	611,650.23	
4,425.00	5.20	341.80	4,406.03	-62.73	291.27	-62.47	297.90	347.89	565,203.27	611,647.53	
4,518.00	5.00	342.30	4,498.67	-65.28	299.14	-65.02	306.12	347.74	565,211.14	611,644.98	
4,611.00	7.00	341.30	4,591.15	-68.34	308.37	-68.07	315.79	347.55	565,220.37	611,641.93	
4,705.00	7.40	339.40	4,684.41	-72.31	319.46	-72.04	327.48	347.29	565,231.46	611,637.96	
4,798.00	7.00	340.20	4,776.68	-76.35	330.40	-76.06	339.04	347.04	565,242.40	611,633.94	
4,892.00	6.60	340.10	4,870.02	-80.14	340.86	-79.84	350.09	346.82	565,252.86	611,630.16	
4,985.00	6.40	339.00	4,962.42	-83.82	350.73	-83.52	360.54	346.61	565,262.73	611,626.48	
5,078.00	8.40	341.30	5,054.64	-87.87	362.00	-87.55	372.44	346.40	565,274.00	611,622.45	
5,172.00	8.30	339.90	5,147.64	-92.41	374.88	-92.09	386.02	346.20	565,286.88	611,617.91	
5,266.00	7.40	338.00	5,240.76	-97.02	386.86	-96.69	398.76	345.97	565,298.86	611,613.31	
5,360.00	7.00	336.90	5,334.02	-101.55	397.74	-101.20	410.42	345.72	565,309.74	611,608.80	
5,453.00	6.40	336.10	5,426.38	-105.88	407.70	-105.53	421.13	345.49	565,319.70	611,604.47	
5,547.00	5.80	334.50	5,519.85	-110.06	416.77	-109.69	430.97	345.25	565,328.77	611,600.31	
5,640.00	5.50	333.50	5,612.40	-114.07	425.00	-113.70	439.95	345.02	565,337.00	611,596.30	
5,734.00	5.00	330.70	5,706.00	-118.10	432.61	-117.72	448.34	344.78	565,344.61	611,592.28	
5,827.00	5.70	339.10	5,798.60	-121.73	440.46	-121.35	456.87	344.60	565,352.46	611,588.65	
5,921.00	5.80	338.00	5,892.13	-125.19	449.22	-124.79	466.23	344.47	565,361.22	611,585.21	
6,014.00	6.10	346.30	5,984.63	-128.12	458.38	-127.72	475.84	344.43	565,370.38	611,582.28	
6,108.00	5.70	340.50	6,078.13	-130.87	467.63	-130.47	485.49	344.41	565,379.63	611,579.53	
6,201.00	6.10	349.50	6,170.64	-133.32	476.84	-132.91	495.02	344.43	565,388.84	611,577.09	
6,295.00	5.70	348.30	6,264.14	-135.19	486.32	-134.77	504.65	344.51	565,398.32	611,575.23	
6,388.00	5.40	350.30	6,356.71	-136.87	495.16	-136.44	513.61	344.59	565,407.16	611,573.56	
6,482.00	4.50	345.70	6,450.35	-138.53	503.09	-138.10	521.70	344.65	565,415.09	611,571.90	
6,575.00	5.80	352.80	6,542.98	-140.03	511.29	-139.59	530.00	344.73	565,423.29	611,570.41	



ProDirectional Survey Report



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Site:	Stebbins 20 Fed	MD Reference:	Well @ 3273.50usft
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Wellbore:	OH	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)	
6,668.00	6.00	356.90	6,635.49	-140.89	520.81	-140.44	539.41	344.91	565,432.81	611,569.56	
6,761.00	7.90	348.50	6,727.80	-142.44	531.93	-141.97	550.55	345.06	565,443.93	611,568.03	
6,855.00	6.90	345.80	6,821.02	-145.12	543.73	-144.65	562.64	345.10	565,455.73	611,565.35	
6,948.00	5.70	346.80	6,913.45	-147.56	553.64	-147.07	572.84	345.12	565,465.64	611,562.93	
7,042.00	6.80	330.50	7,006.90	-151.37	563.03	-150.88	582.90	345.00	565,475.03	611,559.12	
7,135.00	6.50	324.70	7,099.28	-157.13	572.12	-156.63	593.17	344.69	565,484.12	611,553.37	
7,229.00	5.10	328.70	7,192.79	-162.38	580.03	-161.88	602.20	344.41	565,492.03	611,548.12	
7,322.00	5.40	346.60	7,285.41	-165.55	587.82	-165.04	610.55	344.32	565,499.82	611,544.96	
7,415.00	6.50	356.50	7,377.91	-166.90	597.33	-166.37	620.07	344.44	565,509.33	611,543.63	
7,508.00	5.80	4.70	7,470.37	-166.84	607.27	-166.31	629.63	344.68	565,519.27	611,543.69	
7,602.00	4.60	11.90	7,563.99	-165.68	615.69	-165.14	637.46	344.99	565,527.69	611,544.86	
7,695.00	5.30	2.60	7,656.64	-164.73	623.63	-164.18	644.88	345.25	565,535.63	611,545.82	
7,788.00	6.90	347.50	7,749.12	-165.75	633.38	-165.20	654.57	345.38	565,545.38	611,544.80	
7,881.00	6.10	348.60	7,841.52	-167.94	643.68	-167.38	665.08	345.42	565,555.68	611,542.62	
7,974.00	5.40	345.60	7,934.05	-170.02	652.76	-169.45	674.39	345.45	565,564.76	611,540.55	
8,068.00	4.40	344.70	8,027.71	-172.07	660.52	-171.50	682.42	345.45	565,572.52	611,538.50	
8,161.00	5.90	336.90	8,120.33	-174.90	668.36	-174.31	690.72	345.38	565,580.36	611,535.69	
8,255.00	5.10	351.40	8,213.90	-177.43	676.94	-176.83	699.65	345.36	565,588.94	611,533.17	
8,349.00	5.70	4.60	8,307.49	-177.68	685.72	-177.09	708.22	345.52	565,597.72	611,532.91	
8,442.00	3.50	36.70	8,400.19	-175.62	692.60	-175.02	714.37	345.82	565,604.60	611,534.98	
8,536.00	1.50	33.00	8,494.10	-173.24	695.93	-172.63	717.03	346.07	565,607.93	611,537.37	
8,629.00	2.20	8.30	8,587.05	-172.32	698.72	-171.71	719.51	346.19	565,610.72	611,538.29	
8,723.00	1.90	91.10	8,681.01	-170.50	700.48	-169.89	720.79	346.37	565,612.48	611,540.11	
8,795.00	4.60	98.10	8,752.89	-166.45	700.05	-165.84	719.42	346.67	565,612.05	611,544.16	
8,841.00	11.60	87.40	8,798.40	-160.00	700.00	-159.39	717.91	347.17	565,612.00	611,550.61	
8,888.00	18.40	83.80	8,843.78	-147.89	701.01	-147.28	716.32	348.14	565,613.01	611,562.72	
8,935.00	23.50	83.00	8,887.65	-131.20	702.96	-130.59	714.99	349.48	565,614.96	611,579.41	



ProDirectional Survey Report



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Project: Eddy County, NM(NAD 83)
Site: Stebbins 20 Fed
Well: No. 204H
Wellbore: OH
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8,982.00	27.60	83.00	8,930.05	-111.09	705.43	-110.48	714.03	351.10	565,617.43	611,599.52	
9,030.00	32.00	84.70	8,971.69	-87.38	707.96	-86.76	713.26	353.01	565,619.96	611,623.24	
9,077.00	34.50	87.30	9,011.00	-61.68	709.74	-61.06	712.36	355.08	565,621.74	611,648.94	
9,123.00	33.90	86.40	9,049.04	-35.87	711.16	-35.25	712.03	357.16	565,623.16	611,674.75	
9,170.00	35.90	89.80	9,087.59	-9.00	712.03	-8.38	712.08	359.33	565,624.03	611,701.62	
9,217.00	39.50	91.60	9,124.77	19.73	711.66	20.35	711.95	1.64	565,623.66	611,730.35	
9,264.00	43.60	91.20	9,159.94	50.89	710.90	51.51	712.76	4.14	565,622.90	611,761.51	
9,310.00	47.10	91.90	9,192.26	83.60	710.01	84.22	714.99	6.76	565,622.01	611,794.22	
9,357.00	51.40	91.90	9,222.94	119.18	708.83	119.80	718.88	9.59	565,620.83	611,829.80	
9,403.00	56.90	91.20	9,249.87	156.43	707.83	157.05	725.04	12.51	565,619.83	611,867.05	
9,450.00	62.20	92.00	9,273.68	196.92	706.69	197.54	733.78	15.62	565,618.69	611,907.54	
9,496.00	68.10	91.30	9,293.00	238.63	705.50	239.24	744.96	18.73	565,617.50	611,949.24	
9,543.00	73.80	89.90	9,308.33	283.03	705.04	283.65	759.96	21.92	565,617.04	611,993.65	
9,590.00	78.60	91.60	9,319.54	328.66	704.44	329.27	777.59	25.05	565,616.44	612,039.27	
9,637.00	83.20	93.20	9,326.98	375.01	702.49	375.63	796.61	28.13	565,614.49	612,085.63	
9,684.00	87.70	94.20	9,330.70	421.76	699.47	422.37	817.10	31.13	565,611.47	612,132.37	
9,777.00	90.10	95.90	9,332.49	514.38	691.28	514.98	862.02	36.68	565,603.28	612,224.98	
9,871.00	88.80	94.60	9,333.39	607.98	682.68	608.58	914.56	41.72	565,594.68	612,318.58	
9,964.00	88.40	94.70	9,335.66	700.65	675.14	701.24	973.43	46.09	565,587.14	612,411.24	
10,058.00	87.80	92.20	9,338.78	794.43	669.49	795.01	1,039.36	49.90	565,581.49	612,505.01	
10,152.00	88.90	89.40	9,341.49	888.37	668.18	888.95	1,112.07	53.07	565,580.18	612,598.95	
10,245.00	91.40	87.90	9,341.24	981.33	670.37	981.92	1,188.93	55.68	565,582.37	612,691.92	
10,339.00	94.60	87.60	9,336.32	1,075.11	674.05	1,075.70	1,269.44	57.93	565,586.05	612,785.70	
10,432.00	95.30	87.90	9,328.30	1,167.69	677.69	1,168.28	1,350.61	59.88	565,589.69	612,878.28	
10,526.00	92.80	88.30	9,321.66	1,261.40	680.80	1,261.99	1,433.91	61.65	565,592.80	612,971.99	
10,619.00	92.30	88.30	9,317.52	1,354.26	683.56	1,354.86	1,517.53	63.23	565,595.56	613,064.86	
10,713.00	88.90	88.70	9,316.54	1,448.21	686.02	1,448.81	1,603.01	64.66	565,598.02	613,158.81	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM(NAD 83)	TVD Reference:	Well @ 3273.50usft
Site:	Stebbins 20 Fed	MD Reference:	Well @ 3273.50usft
Well:	No. 204H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-58.5'-13987', Proj. 14084'	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)	
10,807.00	89.80	89.50	9,317.61	1,542.19	687.49	1,542.79	1,689.03	65.98	565,599.49	613,252.79	
10,900.00	88.50	89.40	9,318.99	1,635.17	688.38	1,635.77	1,774.72	67.18	565,600.38	613,345.77	
10,994.00	88.10	89.60	9,321.77	1,729.12	689.20	1,729.72	1,861.98	68.28	565,601.20	613,439.72	
11,087.00	88.90	90.20	9,324.21	1,822.09	689.37	1,822.69	1,948.70	69.28	565,601.37	613,532.69	
11,181.00	91.00	90.80	9,324.29	1,916.08	688.55	1,916.68	2,036.61	70.24	565,600.55	613,626.68	
11,275.00	91.30	91.40	9,322.40	2,010.05	686.74	2,010.65	2,124.69	71.14	565,598.74	613,720.65	
11,368.00	88.90	90.50	9,322.24	2,103.03	685.20	2,103.62	2,212.41	71.96	565,597.20	613,813.62	
11,462.00	88.50	90.80	9,324.37	2,197.00	684.13	2,197.59	2,301.62	72.71	565,596.13	613,907.59	
11,556.00	88.80	91.10	9,326.59	2,290.96	682.58	2,291.56	2,391.05	73.41	565,594.58	614,001.56	
11,649.00	88.90	91.60	9,328.46	2,383.92	680.39	2,384.51	2,479.68	74.07	565,592.39	614,094.51	
11,743.00	89.00	92.10	9,330.18	2,477.85	677.35	2,478.45	2,569.34	74.71	565,589.35	614,188.45	
11,836.00	88.80	92.10	9,331.96	2,570.78	673.94	2,571.37	2,658.22	75.31	565,585.94	614,281.37	
11,929.00	88.40	92.30	9,334.24	2,663.68	670.38	2,664.27	2,747.31	75.88	565,582.38	614,374.27	
12,023.00	90.20	92.80	9,335.38	2,757.58	666.19	2,758.16	2,837.48	76.42	565,578.19	614,468.16	
12,117.00	91.20	91.30	9,334.24	2,851.51	662.83	2,852.09	2,928.10	76.92	565,574.83	614,562.09	
12,210.00	91.20	89.70	9,332.29	2,944.49	662.02	2,945.07	3,018.56	77.33	565,574.02	614,655.07	
12,304.00	90.70	89.70	9,330.73	3,038.47	662.51	3,039.05	3,110.43	77.70	565,574.51	614,749.05	
12,397.00	90.40	89.90	9,329.84	3,131.47	662.84	3,132.05	3,201.42	78.05	565,574.84	614,842.05	
12,491.00	87.20	87.30	9,331.81	3,225.40	665.13	3,225.98	3,293.83	78.35	565,577.13	614,935.98	
12,584.00	87.00	86.90	9,336.51	3,318.15	669.83	3,318.74	3,385.66	78.59	565,581.83	615,028.74	
12,678.00	87.90	87.20	9,340.69	3,411.93	674.66	3,412.52	3,478.57	78.82	565,586.66	615,122.52	
12,771.00	87.90	87.10	9,344.10	3,504.75	679.28	3,505.34	3,570.56	79.03	565,591.28	615,215.34	
12,864.00	87.60	87.30	9,347.75	3,597.56	683.82	3,598.16	3,662.56	79.24	565,595.82	615,308.16	
12,958.00	89.20	87.80	9,350.38	3,691.43	687.84	3,692.04	3,755.56	79.45	565,599.84	615,402.04	
13,052.00	89.40	88.60	9,351.52	3,785.38	690.79	3,785.98	3,848.49	79.66	565,602.79	615,495.98	
13,145.00	89.60	89.40	9,352.34	3,878.36	692.42	3,878.96	3,940.28	79.88	565,604.42	615,588.96	
13,239.00	89.30	89.50	9,353.24	3,972.35	693.32	3,972.95	4,033.00	80.10	565,605.32	615,682.95	



ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 204H
Project:	Eddy County, NM(NAD 83)	TVD Reference:	Well @ 3273.50usft
Site:	Stebbins 20 Fed	MD Reference:	Well @ 3273.50usft
Well:	No. 204H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Gyro-MWD-58.5'-13987', Proj. 14084'	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)	
13,332.00	90.00	90.50	9,353.81	4,065.34	693.32	4,065.95	4,124.64	80.32	565,605.32	615,775.95	
13,426.00	90.00	90.80	9,353.81	4,159.34	692.25	4,159.94	4,217.15	80.55	565,604.25	615,869.94	
13,520.00	90.60	90.90	9,353.31	4,253.33	690.86	4,253.93	4,309.67	80.78	565,602.86	615,963.93	
13,614.00	90.80	91.50	9,352.17	4,347.30	688.89	4,347.90	4,402.14	81.00	565,600.89	616,057.90	
13,707.00	91.30	91.90	9,350.46	4,440.25	686.13	4,440.85	4,493.54	81.22	565,598.13	616,150.85	
13,800.00	90.20	91.90	9,349.24	4,533.19	683.05	4,533.79	4,584.95	81.43	565,595.05	616,243.79	
13,894.00	89.20	92.20	9,349.74	4,627.13	679.68	4,627.72	4,677.37	81.64	565,591.68	616,337.72	
13,987.00	89.40	92.30	9,350.87	4,720.05	676.03	4,720.65	4,768.81	81.85	565,588.03	616,430.65	
Last Survey: 13987' MD											
14,084.00	89.40	92.30	9,351.89	4,816.97	672.14	4,817.56	4,864.22	82.06	565,584.14	616,527.56	
PTB: 14084' MD											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/-S (usft)	+E/-W (usft)	Comment
506.00	505.99	0.54	0.48	Pro MWD First Survey: 506' MD
13,987.00	9,350.87	676.03	4,720.65	Last Survey: 13987' MD
14,084.00	9,351.89	672.14	4,817.56	PTB: 14084' MD