



NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 31 2018

RECEIVED



Dr. K 24-23S-27E RB No. 204H

Eddy County, NM

30-015-44804

August 24, 2018

Job No. LNM5177818

ORIGINAL

Survey Completion Report



I Christopher Hair certify that I am employed by VES Survey International. That I did on the day(s) of 06/25/18 through 06/25/18 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 400.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador Production Company for the DR K 24 23S 27E RB Well # 204H API # 30-015-44804 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.

A handwritten signature in cursive script, appearing to read "Chris Hair", written over a horizontal line.

Christopher Hair
Service Technician
VES Survey International



August 24, 2018



Operator Name: Matador Resources
Well Name: Dr. K 24-23S-27E RB No. 204H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5177818

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	583' MD – 14,384' MD	14,465' MD	06/25/18 – 07/27/18	MWD

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com



Matador Resources

**Eddy County, NM
Dr. K 24-23S-27E RB
No. 204H
OH**

Survey: ProDirectional

Survey Report

24 August, 2018

**NM OIL CONSERVATION
ARTESIA DISTRICT**

OCT 31 2018

RECEIVED





ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Dr. K 24-23S-27E RB
Well: No. 204H
Wellbore: OH
Design: Gyro-MWD-100'-14384, Proj. 14465'

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3163.50usft
MD Reference: Well @ 3163.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	Dr. K 24-23S-27E RB		
Site Position:		Northing:	467,042.00 usft
From:	Map	Easting:	596,847.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.283845
		Longitude:	-104.153708
		Grid Convergence:	0.10 °

Well		No. 204H				
Well Position	+N/-S	0.00 usft	Northing:	467,042.00 usft	Latitude:	32.283845
	+E/-W	0.00 usft	Easting:	596,847.00 usft	Longitude:	-104.153708
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,135.00 usft	

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
			(°)	(°)	(nT)	
	HDGM	6/18/2018	7.30	60.03	47,983.80	

Design	Gyro-MWD-100'-14384, Proj. 14465'			
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	89.88



ProDirectional Survey Report



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Survey Program		Date 8/24/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	400.00	Survey #1 (OH)	GYRO-NS	Gyrocompass Gyro	
583.00	14,465.00	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	467,042.00	596,847.00
100.00	0.07	244.77	100.00	-0.06	-0.03	-0.06	0.06	244.77	467,041.97	596,846.94
200.00	0.04	298.30	200.00	-0.14	-0.04	-0.14	0.15	255.88	467,041.96	596,846.86
300.00	0.36	238.80	300.00	-0.44	-0.18	-0.44	0.48	247.59	467,041.82	596,846.56
400.00	0.91	247.64	399.99	-1.45	-0.65	-1.44	1.58	245.88	467,041.35	596,845.56
583.00	0.40	303.00	582.98	-3.33	-0.85	-3.32	3.43	255.63	467,041.15	596,843.68
Pro MWD First Survey: 583' MD										
613.00	0.30	283.00	612.98	-3.49	-0.78	-3.49	3.57	257.44	467,041.22	596,843.51
704.00	0.50	328.30	703.98	-3.93	-0.39	-3.93	3.95	264.40	467,041.61	596,843.07
795.00	2.20	344.90	794.95	-4.59	1.64	-4.59	4.88	289.64	467,043.64	596,842.41
887.00	3.90	4.60	886.82	-4.79	6.46	-4.80	8.05	323.39	467,048.46	596,842.20
981.00	4.70	25.10	980.56	-2.88	13.14	-2.91	13.46	347.50	467,055.14	596,844.09
1,076.00	4.00	25.00	1,075.29	0.18	19.66	0.14	19.67	0.41	467,061.66	596,847.14
1,171.00	3.70	21.40	1,170.07	2.71	25.52	2.66	25.66	5.95	467,067.52	596,849.66
1,266.00	3.60	16.70	1,264.88	4.70	31.23	4.63	31.57	8.44	467,073.23	596,851.63
1,362.00	5.10	3.80	1,360.60	5.86	38.38	5.78	38.81	8.57	467,080.38	596,852.78
1,457.00	5.80	4.50	1,455.17	6.54	47.38	6.44	47.81	7.74	467,089.38	596,853.44
1,553.00	5.00	11.10	1,550.75	7.74	56.32	7.63	56.83	7.71	467,098.32	596,854.63
1,648.00	4.30	23.00	1,645.43	9.95	63.66	9.81	64.41	8.76	467,105.66	596,856.81
1,743.00	4.00	26.80	1,740.19	12.85	69.89	12.70	71.04	10.30	467,111.89	596,859.70
1,838.00	3.30	32.10	1,834.99	15.80	75.17	15.65	76.78	11.76	467,117.17	596,862.65



ProDirectional Survey Report



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Well: No. 204H
Wellbore: OH
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Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3163.50usft
MD Reference: Well @ 3163.50usft
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)	
1,933.00	3.30	14.10	1,929.84	17.93	80.14	17.77	82.08	12.50	467,122.14	596,864.77	
2,028.00	4.60	3.90	2,024.61	18.87	86.59	18.69	88.58	12.18	467,128.59	596,865.69	
2,124.00	5.40	5.80	2,120.24	19.61	94.92	19.41	96.89	11.56	467,136.92	596,866.41	
2,219.00	4.70	7.30	2,214.88	20.57	103.23	20.36	105.22	11.15	467,145.23	596,867.36	
2,314.00	3.80	1.20	2,309.61	21.15	110.24	20.92	112.21	10.74	467,152.24	596,867.92	
2,410.00	3.10	359.90	2,405.44	21.22	116.02	20.98	117.90	10.25	467,158.02	596,867.98	
2,550.00	3.00	14.70	2,545.24	22.16	123.35	21.90	125.28	10.07	467,165.35	596,868.90	
2,646.00	3.00	13.10	2,641.11	23.38	128.22	23.11	130.29	10.22	467,170.22	596,870.11	
2,741.00	3.00	20.50	2,735.98	24.82	132.97	24.54	135.22	10.46	467,174.97	596,871.54	
2,837.00	3.10	20.70	2,831.85	26.63	137.75	26.34	140.25	10.82	467,179.75	596,873.34	
2,932.00	2.80	14.90	2,926.72	28.14	142.40	27.84	145.10	11.06	467,184.40	596,874.84	
3,028.00	4.40	15.00	3,022.53	29.71	148.22	29.40	151.11	11.22	467,190.22	596,876.40	
3,123.00	4.30	8.30	3,117.25	31.18	155.27	30.86	158.30	11.24	467,197.27	596,877.86	
3,218.00	4.30	8.90	3,211.99	32.26	162.31	31.92	165.42	11.13	467,204.31	596,878.92	
3,314.00	6.00	16.30	3,307.60	34.25	170.68	33.89	174.01	11.23	467,212.68	596,880.89	
3,409.00	6.20	16.30	3,402.06	37.10	180.37	36.72	184.07	11.51	467,222.37	596,883.72	
3,504.00	6.10	16.50	3,496.51	39.99	190.13	39.60	194.21	11.76	467,232.13	596,886.60	
3,599.00	5.70	16.40	3,591.01	42.78	199.50	42.36	203.95	11.99	467,241.50	596,889.36	
3,694.00	5.10	13.50	3,685.59	45.11	208.13	44.68	212.87	12.12	467,250.13	596,891.68	
3,790.00	5.70	15.80	3,781.16	47.43	216.87	46.97	221.90	12.22	467,258.87	596,893.97	
3,885.00	5.40	14.90	3,875.72	49.88	225.73	49.41	231.07	12.35	467,267.73	596,896.41	
3,980.00	6.00	14.80	3,970.24	52.32	234.85	51.82	240.50	12.44	467,276.85	596,898.82	
4,075.00	5.80	14.90	4,064.74	54.84	244.29	54.33	250.25	12.54	467,286.29	596,901.33	
4,170.00	6.00	12.40	4,159.24	57.16	253.77	56.63	260.02	12.58	467,295.77	596,903.63	
4,266.00	5.90	11.10	4,254.72	59.21	263.52	58.65	269.97	12.55	467,305.52	596,905.65	
4,361.00	5.50	12.20	4,349.25	61.13	272.76	60.56	279.40	12.52	467,314.76	596,907.56	
4,457.00	5.40	11.80	4,444.82	63.04	281.68	62.45	288.52	12.50	467,323.68	596,909.45	



ProDirectional Survey Report



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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)
4,552.00	5.10	9.20	4,539.42	64.65	290.22	64.04	297.20	12.44	467,332.22	596,911.04
4,647.00	5.10	6.30	4,634.04	65.81	298.59	65.18	305.62	12.31	467,340.59	596,912.18
4,742.00	4.70	8.30	4,728.70	66.85	306.63	66.21	313.70	12.18	467,348.63	596,913.21
4,837.00	4.70	6.40	4,823.38	67.86	314.35	67.20	321.46	12.07	467,356.35	596,914.20
4,933.00	2.50	31.20	4,919.19	69.39	320.05	68.72	327.35	12.12	467,362.05	596,915.72
5,028.00	2.20	33.70	5,014.11	71.49	323.34	70.81	331.00	12.35	467,365.34	596,917.81
5,123.00	1.70	25.50	5,109.05	73.11	326.13	72.43	334.08	12.52	467,368.13	596,919.43
5,218.00	1.60	19.00	5,204.01	74.15	328.66	73.47	336.77	12.60	467,370.66	596,920.47
5,313.00	1.60	26.80	5,298.97	75.19	331.09	74.50	339.37	12.68	467,373.09	596,921.50
5,408.00	1.50	22.30	5,393.94	76.26	333.43	75.57	341.88	12.77	467,375.43	596,922.57
5,504.00	1.20	2.60	5,489.91	76.79	335.60	76.09	344.11	12.77	467,377.60	596,923.09
5,599.00	1.00	359.70	5,584.90	76.84	337.42	76.13	345.90	12.71	467,379.42	596,923.13
5,694.00	1.00	22.70	5,679.88	77.15	339.01	76.44	347.52	12.71	467,381.01	596,923.44
5,790.00	1.10	345.00	5,775.87	77.24	340.68	76.53	349.17	12.66	467,382.68	596,923.53
5,885.00	1.20	343.60	5,870.85	76.73	342.51	76.01	350.84	12.51	467,384.51	596,923.01
5,980.00	1.50	341.50	5,965.82	76.06	344.64	75.34	352.78	12.33	467,386.64	596,922.34
6,076.00	0.60	49.70	6,061.81	76.05	346.16	75.32	354.26	12.28	467,388.16	596,922.32
6,171.00	0.90	320.90	6,156.80	75.96	347.06	75.23	355.12	12.23	467,389.06	596,922.23
6,266.00	1.30	318.30	6,251.78	74.77	348.44	74.04	356.23	12.00	467,390.44	596,921.04
6,360.00	1.70	138.20	6,345.77	74.99	348.20	74.26	356.03	12.04	467,390.20	596,921.26
6,455.00	1.60	162.50	6,440.73	76.33	345.89	75.60	354.05	12.33	467,387.89	596,922.60
6,550.00	1.90	173.80	6,535.69	76.89	343.06	76.17	351.41	12.52	467,385.06	596,923.17
6,645.00	1.40	172.60	6,630.65	77.20	340.34	76.49	348.83	12.67	467,382.34	596,923.49
6,740.00	1.30	179.40	6,725.62	77.36	338.11	76.65	346.69	12.77	467,380.11	596,923.65
6,835.00	2.20	191.90	6,820.58	76.99	335.25	76.29	343.82	12.82	467,377.25	596,923.29
6,930.00	2.00	139.70	6,915.52	77.68	332.20	76.98	341.00	13.05	467,374.20	596,923.98
7,025.00	2.10	126.00	7,010.46	80.15	329.91	79.46	339.35	13.54	467,371.91	596,926.46



ProDirectional Survey Report



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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)
7,120.00	2.30	123.20	7,105.39	83.15	327.85	82.47	338.06	14.12	467,369.85	596,929.47
7,215.00	2.70	110.80	7,200.30	86.84	326.01	86.15	337.20	14.80	467,368.01	596,933.15
7,310.00	3.00	130.40	7,295.19	90.82	323.60	90.14	335.92	15.56	467,365.60	596,937.14
7,405.00	0.70	143.70	7,390.13	93.05	321.52	92.37	334.53	16.03	467,363.52	596,939.37
7,500.00	0.40	106.90	7,485.13	93.71	320.96	93.04	334.17	16.17	467,362.96	596,940.04
7,594.00	0.10	154.20	7,579.13	94.06	320.79	93.39	334.11	16.23	467,362.79	596,940.39
7,689.00	0.20	204.30	7,674.13	94.02	320.56	93.35	333.88	16.24	467,362.56	596,940.35
7,784.00	0.40	178.30	7,769.13	93.96	320.08	93.29	333.40	16.25	467,362.08	596,940.29
7,878.00	0.60	242.00	7,863.12	93.54	319.52	92.87	332.74	16.21	467,361.52	596,939.87
7,973.00	0.90	237.70	7,958.11	92.47	318.89	91.80	331.84	16.06	467,360.89	596,938.80
8,069.00	1.50	240.90	8,054.09	90.73	317.88	90.06	330.39	15.82	467,359.88	596,937.06
8,164.00	1.20	216.90	8,149.07	89.04	316.48	88.38	328.58	15.60	467,358.48	596,935.38
8,258.00	1.20	210.90	8,243.05	87.94	314.84	87.28	326.72	15.50	467,356.84	596,934.28
8,354.00	1.70	226.60	8,339.02	86.39	313.00	85.73	324.53	15.32	467,355.00	596,932.73
8,449.00	1.70	215.40	8,433.97	84.54	310.89	83.89	322.01	15.10	467,352.89	596,930.89
8,544.00	1.70	190.00	8,528.93	83.48	308.35	82.83	319.28	15.04	467,350.35	596,929.83
8,640.00	1.70	201.70	8,624.89	82.70	305.62	82.06	316.45	15.03	467,347.62	596,929.06
8,672.00	1.60	201.50	8,656.88	82.36	304.77	81.72	315.53	15.01	467,346.77	596,928.72
8,778.00	1.20	183.90	8,762.85	81.73	302.28	81.10	312.97	15.02	467,344.28	596,928.10
8,842.00	5.80	105.60	8,826.73	84.80	300.74	84.17	312.30	15.64	467,342.74	596,931.17
8,873.00	10.50	100.70	8,857.41	89.09	299.80	88.46	312.58	16.44	467,341.80	596,935.46
8,969.00	22.10	87.60	8,949.42	115.82	298.93	115.20	320.35	21.08	467,340.93	596,962.20
9,064.00	32.60	88.80	9,033.68	159.39	300.21	158.76	339.61	27.87	467,342.21	597,005.76
9,159.00	44.00	95.30	9,108.14	218.04	297.69	217.42	368.64	36.14	467,339.69	597,064.42
9,254.00	54.60	101.00	9,170.03	289.12	287.22	288.52	407.11	45.13	467,329.22	597,135.52
9,349.00	63.70	102.70	9,218.70	368.80	270.44	368.24	456.88	53.71	467,312.44	597,215.24
9,444.00	73.00	102.30	9,253.71	454.88	251.36	454.35	519.24	61.05	467,293.36	597,301.35



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9,492.00	80.60	104.00	9,264.66	500.32	240.72	499.82	554.77	64.28	467,282.72	597,346.82
9,587.00	84.60	102.30	9,276.90	592.00	219.30	591.54	630.88	69.66	467,261.30	597,438.54
9,682.00	83.60	100.20	9,286.66	684.63	200.87	684.21	713.09	73.64	467,242.87	597,531.21
9,776.00	82.60	95.80	9,297.96	776.99	187.88	776.60	799.00	76.40	467,229.88	597,623.60
9,871.00	83.40	87.80	9,309.56	871.15	184.92	870.76	890.18	78.01	467,226.92	597,717.76
9,967.00	84.90	85.90	9,319.34	966.51	190.17	966.11	984.65	78.86	467,232.17	597,813.11
10,062.00	88.80	87.50	9,324.56	1,061.20	195.63	1,060.79	1,078.68	79.55	467,237.63	597,907.79
10,158.00	87.30	87.50	9,327.83	1,157.06	199.81	1,156.64	1,173.77	80.20	467,241.81	598,003.64
10,253.00	87.90	87.90	9,331.81	1,251.90	203.62	1,251.48	1,267.94	80.76	467,245.62	598,098.48
10,347.00	87.90	86.90	9,335.25	1,345.75	207.88	1,345.32	1,361.29	81.22	467,249.88	598,192.32
10,442.00	87.00	85.70	9,339.48	1,440.47	214.01	1,440.02	1,455.84	81.55	467,256.01	598,287.02
10,537.00	87.00	86.80	9,344.45	1,535.15	220.21	1,534.69	1,550.41	81.83	467,262.21	598,381.69
10,631.00	86.60	86.30	9,349.70	1,628.84	225.86	1,628.37	1,643.96	82.10	467,267.86	598,475.37
10,726.00	87.30	86.40	9,354.75	1,723.53	231.90	1,723.04	1,738.58	82.33	467,273.90	598,570.04
10,821.00	88.10	88.20	9,358.57	1,818.35	236.37	1,817.86	1,833.16	82.59	467,278.37	598,664.86
10,916.00	89.50	89.60	9,360.56	1,913.31	238.19	1,912.82	1,927.59	82.90	467,280.19	598,759.82
11,012.00	90.20	91.40	9,360.81	2,009.30	237.36	2,008.81	2,022.78	83.26	467,279.36	598,855.81
11,107.00	88.10	89.70	9,362.22	2,104.27	236.44	2,103.78	2,117.03	83.59	467,278.44	598,950.78
11,202.00	91.30	91.30	9,362.71	2,199.25	235.62	2,198.76	2,211.35	83.88	467,277.62	599,045.76
11,297.00	93.80	92.30	9,358.49	2,294.10	232.64	2,293.61	2,305.38	84.21	467,274.64	599,140.61
11,393.00	93.90	91.70	9,352.04	2,389.81	229.29	2,389.34	2,400.31	84.52	467,271.29	599,236.34
11,488.00	94.00	92.00	9,345.50	2,484.53	226.23	2,484.06	2,494.34	84.80	467,268.23	599,331.06
11,583.00	93.30	91.90	9,339.45	2,579.28	223.01	2,578.81	2,588.44	85.06	467,265.01	599,425.81
11,678.00	90.10	92.40	9,336.63	2,674.15	219.44	2,673.69	2,682.68	85.31	467,261.44	599,520.69
11,773.00	85.10	92.50	9,340.61	2,768.94	215.39	2,768.49	2,776.86	85.55	467,257.39	599,615.49
11,868.00	82.20	92.00	9,351.12	2,863.26	211.68	2,862.83	2,870.64	85.77	467,253.68	599,709.83
11,964.00	85.90	90.30	9,361.07	2,958.70	209.77	2,958.27	2,965.70	85.94	467,251.77	599,805.27



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Dr. K 24-23S-27E RB
Well: No. 204H
Wellbore: OH
Design: Gyro-MWD-100'-14384, Proj. 14465'

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3163.50usft
MD Reference: Well @ 3163.50usft
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)
12,059.00	86.50	90.90	9,367.36	3,053.49	208.78	3,053.06	3,060.19	86.09	467,250.78	599,900.06
12,154.00	85.40	90.40	9,374.07	3,148.24	207.70	3,147.81	3,154.66	86.22	467,249.70	599,994.81
12,249.00	87.50	89.50	9,379.95	3,243.05	207.79	3,242.62	3,249.27	86.33	467,249.79	600,089.62
12,345.00	88.10	88.10	9,383.64	3,338.96	209.79	3,338.53	3,345.11	86.40	467,251.79	600,185.53
12,439.00	88.00	88.10	9,386.84	3,432.86	212.91	3,432.42	3,439.02	86.45	467,254.91	600,279.42
12,534.00	88.00	88.10	9,390.15	3,527.76	216.06	3,527.31	3,533.92	86.49	467,258.06	600,374.31
12,630.00	88.70	87.50	9,392.92	3,623.65	219.74	3,623.20	3,629.86	86.53	467,261.74	600,470.20
12,725.00	89.90	87.60	9,394.08	3,718.56	223.80	3,718.10	3,724.83	86.56	467,265.80	600,565.10
12,820.00	89.60	87.20	9,394.49	3,813.47	228.11	3,813.00	3,819.82	86.58	467,270.11	600,660.00
12,916.00	88.60	86.60	9,396.00	3,909.33	233.30	3,908.85	3,915.81	86.58	467,275.30	600,755.85
13,012.00	87.80	87.60	9,399.02	4,005.17	238.16	4,004.68	4,011.75	86.60	467,280.16	600,851.68
13,107.00	89.40	89.50	9,401.34	4,100.11	240.56	4,099.61	4,106.66	86.64	467,282.56	600,946.61
13,202.00	89.50	89.40	9,402.25	4,195.10	241.47	4,194.60	4,201.55	86.71	467,283.47	601,041.60
13,297.00	89.10	88.50	9,403.41	4,290.08	243.21	4,289.58	4,296.47	86.75	467,285.21	601,136.58
13,392.00	88.40	87.80	9,405.48	4,385.01	246.28	4,384.51	4,391.42	86.79	467,288.28	601,231.51
13,487.00	88.50	88.70	9,408.05	4,479.94	249.18	4,479.43	4,486.35	86.82	467,291.18	601,326.43
13,582.00	88.10	90.00	9,410.87	4,574.89	250.25	4,574.38	4,581.22	86.87	467,292.25	601,421.38
13,678.00	87.30	88.50	9,414.72	4,670.80	251.51	4,670.29	4,677.05	86.92	467,293.51	601,517.29
13,773.00	87.30	88.10	9,419.20	4,765.66	254.33	4,765.14	4,771.92	86.94	467,296.33	601,612.14
13,868.00	88.40	88.80	9,422.76	4,860.56	256.89	4,860.04	4,866.82	86.97	467,298.89	601,707.04
13,962.00	88.50	88.80	9,425.30	4,954.51	258.86	4,953.98	4,960.74	87.01	467,300.86	601,800.98
14,057.00	88.70	89.20	9,427.63	5,049.47	260.52	5,048.94	5,055.65	87.05	467,302.52	601,895.94
14,153.00	88.20	88.80	9,430.22	5,145.43	262.19	5,144.89	5,151.56	87.08	467,304.19	601,991.89
14,247.00	89.40	89.20	9,432.19	5,239.39	263.83	5,238.85	5,245.49	87.12	467,305.83	602,085.85
14,342.00	90.30	89.60	9,432.44	5,334.39	264.83	5,333.84	5,340.41	87.16	467,306.83	602,180.84
14,384.00	90.00	89.60	9,432.33	5,376.39	265.12	5,375.84	5,382.38	87.18	467,307.12	602,222.84
Last Survey: 14384' MD										



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Dr. K 24-23S-27E RB
Well: No. 204H
Wellbore: OH
Design: Gyro-MWD-100'-14384, Proj. 14465'

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3163.50usft
MD Reference: Well @ 3163.50usft
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)
14,465.00	90.00	89.60	9,432.33	5,457.39	265.69	5,456.84	5,463.30	87.21	467,307.69	602,303.84
PTB: 14465' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
583.00	582.98	-0.85	-3.32	Pro MWD First Survey: 583' MD
14,384.00	9,432.33	265.12	5,375.84	Last Survey: 14384' MD
14,465.00	9,432.33	265.69	5,456.84	PTB: 14465' MD