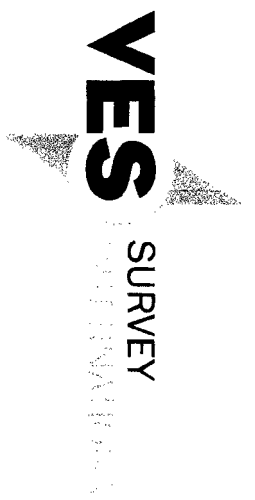




Company: MATADOR RESOURCES
Lease/Well: RUSTLER BREAKS 12 24 27 No. /204H

Rig Name: PATTERSON 274
State/County: NEW MEXICO/EDDY
VS-Azi: 269.64 Degrees
Latitude: 32.22592, Longitude: -104.13598
Grid North = True North -0.11 degs (NAD 27)
Grid Correction Applied = -0.11 degs



Depth Reference : RKB=28.5 FEET

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: run-1-01-de_01.ut
Minimum Curvature Method
Report Date/Time: 2/27/2017 / 09:06

VES Survey International

Midland, Texas

432-563-5444

Surveyor: Michael Cook

Rustler Breaks 12 24 27 No. 204H / API 30-015-43194

NEW OIL CONSERVATION
ARTESIA DISTRICT

MAR 30 2017

RECEIVED

Measured Depth	Incl Angle	Drift Direction	TVD	+N/-S	+E/-W	Vertical Section	Closure Distance	Closure Direction	Dogleg Severity
FT	Deg	Deg	FT	FT	FT	FT	FT	Deg	Deg/100

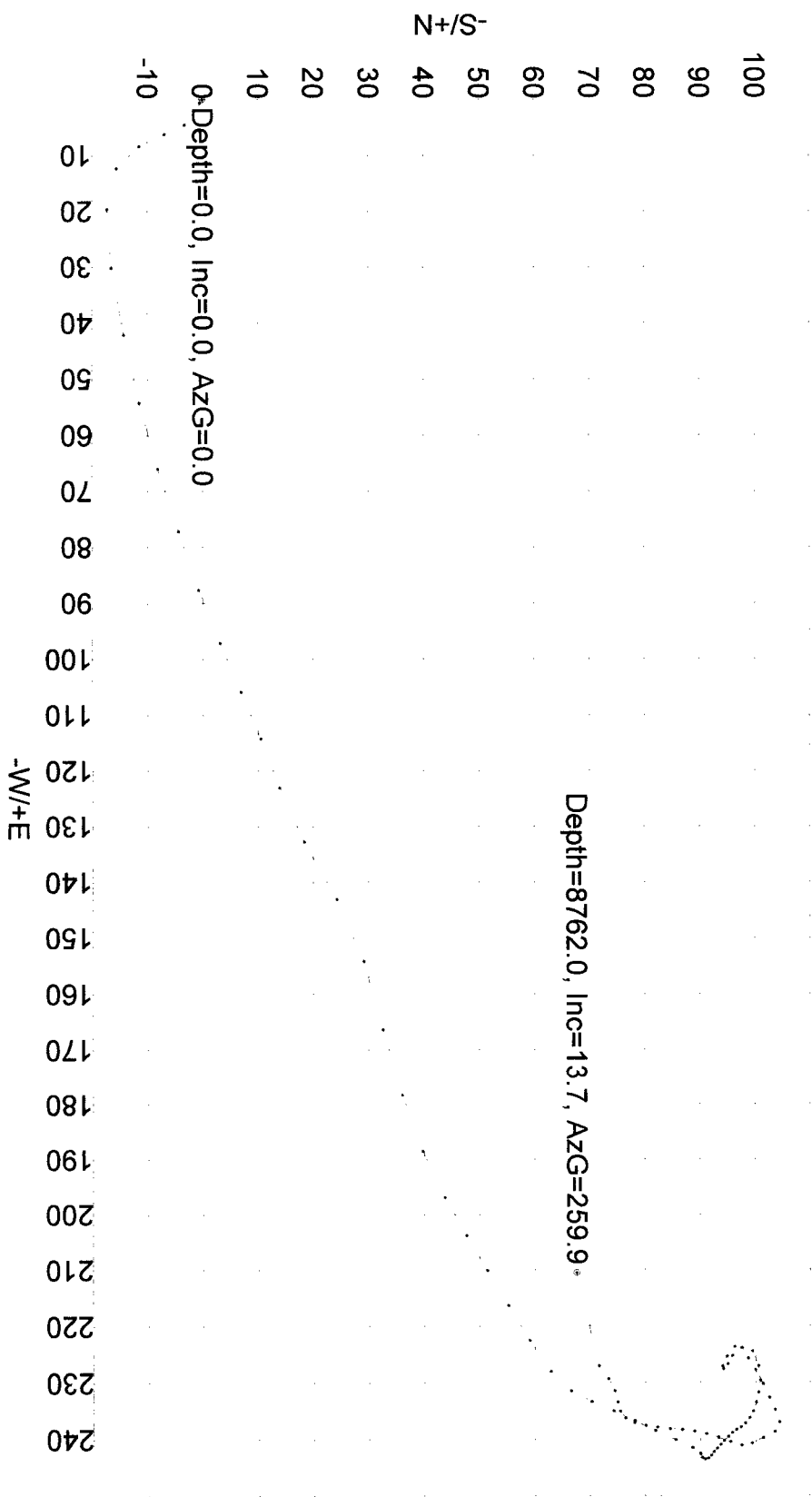
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
109.06	0.82	125.05	109.06	-0.45	0.64	-0.64	0.78	125.05	0.75
203.80	0.87	95.79	203.79	-0.91	1.92	-1.91	2.12	115.48	0.46
298.54	0.74	127.58	298.52	-1.36	3.12	-3.11	3.41	113.54	0.49
393.28	2.14	149.46	393.23	-3.26	4.50	-4.48	5.56	125.86	1.56
488.02	2.70	158.84	487.88	-6.86	6.21	-6.16	9.25	137.85	0.72
582.76	3.40	152.44	582.49	-11.43	8.31	-8.24	14.13	143.97	0.82
677.50	3.81	121.22	677.05	-15.55	12.30	-12.20	19.83	141.65	2.09
772.24	5.60	90.86	771.48	-17.25	19.62	-19.51	26.12	131.32	3.18
866.98	7.17	81.87	865.63	-16.48	30.10	-30.00	34.32	118.70	1.96
961.72	7.62	77.24	959.58	-14.26	42.08	-41.99	44.43	108.72	0.78
1056.46	7.51	76.92	1053.50	-11.47	54.23	-54.16	55.43	101.94	0.12
1151.20	7.36	71.21	1147.44	-8.11	66.01	-65.96	66.50	97.01	0.79
1245.94	6.93	71.83	1241.45	-4.37	77.18	-77.16	77.31	93.24	0.47
1340.68	6.47	69.50	1335.54	-0.72	87.61	-87.60	87.61	90.47	0.57
1435.42	6.03	66.43	1429.72	3.13	97.16	-97.18	97.22	88.15	0.58
1530.16	5.51	65.95	1523.98	6.97	105.88	-105.92	106.11	86.23	0.55

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N-S FT	+E-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1624.90	5.50	68.34	1618.28	10.50	114.25	-114.31	114.73	84.75	0.24
1719.64	5.94	69.36	1712.55	13.91	123.05	-123.14	123.83	83.55	0.48
1814.38	7.07	61.80	1806.68	18.39	132.78	-132.89	134.05	82.11	1.50
1909.12	7.26	59.02	1900.68	24.23	143.05	-143.20	145.09	80.39	0.42
2003.86	7.62	73.21	1994.63	29.13	154.21	-154.39	156.93	79.30	1.97
2098.60	7.82	74.98	2088.51	32.61	166.44	-166.65	169.61	78.92	0.33
2193.34	7.15	72.40	2182.44	36.06	178.29	-178.51	181.90	78.57	0.79
2288.08	6.13	67.17	2276.55	39.81	188.58	-188.82	192.73	78.08	1.25
2382.82	5.07	61.33	2370.83	43.78	196.91	-197.18	201.72	77.47	1.27
2477.56	4.54	59.30	2465.24	47.70	203.81	-204.10	209.32	76.83	0.58
2572.30	4.35	59.80	2559.70	51.43	210.14	-210.46	216.34	76.25	0.20
2667.04	4.49	57.99	2654.15	55.20	216.39	-216.74	223.32	75.69	0.21
2761.78	4.31	57.91	2748.62	59.06	222.55	-222.92	230.26	75.14	0.19
2856.52	3.77	52.08	2843.12	62.86	228.03	-228.42	236.53	74.59	0.71
2951.26	2.46	29.92	2937.72	66.54	231.50	-231.91	240.87	73.96	1.85
3046.00	2.67	22.89	3032.37	70.33	233.37	-233.81	243.74	73.23	0.40
3140.74	2.53	23.19	3127.01	74.29	235.05	-235.51	246.51	72.46	0.15
3235.48	2.49	25.06	3221.66	78.08	236.75	-237.24	249.29	71.75	0.09
3330.22	2.49	25.75	3316.31	81.81	238.52	-239.03	252.16	71.07	0.03
3424.96	2.38	21.08	3410.96	85.49	240.12	-240.65	254.89	70.40	0.24
3519.70	1.71	29.42	3505.64	88.56	241.52	-242.07	257.25	69.86	0.77
3614.44	0.53	63.10	3600.36	90.00	242.61	-243.17	258.77	69.65	1.37
3709.18	0.43	57.91	3695.10	90.38	243.31	-243.87	259.55	69.62	0.12
3803.92	0.36	352.48	3789.84	90.87	243.57	-244.14	259.97	69.54	0.45
3898.66	0.40	333.60	3884.58	91.45	243.39	-243.95	260.00	69.41	0.14
3993.40	0.47	302.45	3979.31	91.96	242.91	-243.48	259.73	69.26	0.26
4088.14	0.50	308.59	4074.05	92.43	242.26	-242.83	259.29	69.12	0.06
4182.88	0.55	318.65	4168.79	93.02	241.64	-242.22	258.92	68.95	0.11
4277.62	0.58	311.21	4263.52	93.67	240.98	-241.56	258.55	68.76	0.08
4372.36	0.57	313.10	4358.26	94.31	240.28	-240.87	258.12	68.57	0.02
4467.10	0.65	317.76	4452.99	95.03	239.57	-240.17	257.73	68.36	0.10
4561.84	0.57	314.25	4547.73	95.75	238.87	-239.47	257.35	68.16	0.09
4656.58	0.54	336.08	4642.46	96.49	238.35	-238.96	257.15	67.96	0.22
4751.32	0.60	329.47	4737.20	97.33	237.92	-238.53	257.06	67.75	0.09
4846.06	0.70	308.90	4831.93	98.12	237.22	-237.83	256.71	67.53	0.27
4940.80	0.74	309.37	4926.66	98.88	236.29	-236.91	256.14	67.29	0.04
5035.54	0.93	292.93	5021.39	99.57	235.10	-235.73	255.32	67.05	0.32
5130.28	1.04	284.23	5116.12	100.08	233.56	-234.18	254.10	66.81	0.19
5225.02	1.25	282.78	5210.84	100.52	231.72	-232.34	252.58	66.55	0.22

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N-S FT	+E-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5319.76	1.37	274.36	5305.56	100.83	229.58	-230.21	250.75	66.29	0.24
5414.50	1.73	252.98	5400.26	100.50	227.09	-227.72	248.33	66.13	0.71
5509.24	1.68	241.18	5494.96	99.41	224.51	-225.13	245.53	66.12	0.37
5603.98	1.70	154.09	5589.67	97.48	223.90	-224.51	244.20	66.47	2.46
5698.72	1.07	118.71	5684.39	95.80	225.29	-225.89	244.81	66.96	1.09
5793.46	0.92	122.05	5779.11	94.97	226.71	-227.31	245.80	67.27	0.17
5888.20	0.60	148.24	5873.84	94.14	227.62	-228.21	246.32	67.53	0.49
5982.94	0.95	288.59	5968.58	93.97	227.14	-227.72	245.81	67.52	1.54
6077.68	1.40	299.41	6063.30	94.79	225.39	-225.98	244.51	67.19	0.53
6172.42	1.33	321.00	6158.01	96.21	223.69	-224.29	243.50	66.73	0.54
6267.16	1.24	61.81	6252.74	97.55	223.90	-224.51	244.23	66.46	2.09
6361.90	1.35	56.91	6347.45	98.65	225.75	-226.36	246.36	66.40	0.16
6456.64	1.62	57.43	6442.16	99.98	227.82	-228.44	248.79	66.31	0.28
6551.38	1.75	64.56	6536.86	101.33	230.26	-230.89	251.57	66.25	0.26
6646.12	1.49	64.42	6631.56	102.48	232.68	-233.32	254.25	66.23	0.27
6740.86	1.42	63.36	6726.27	103.54	234.84	-235.48	256.65	66.21	0.09
6835.60	1.40	77.32	6820.98	104.32	237.01	-237.66	258.95	66.24	0.36
6930.34	1.48	151.31	6915.70	103.50	238.73	-239.37	260.20	66.56	1.83
7025.08	1.45	155.48	7010.41	101.34	239.81	-240.44	260.34	67.09	0.12
7119.82	1.26	151.83	7105.12	99.34	240.80	-241.42	260.48	67.58	0.22
7214.56	1.16	188.68	7199.84	97.47	241.15	-241.75	260.10	67.99	0.81
7309.30	1.45	203.98	7294.56	95.43	240.51	-241.11	258.76	68.36	0.48
7404.04	1.38	196.31	7389.27	93.24	239.71	-240.29	257.20	68.74	0.22
7498.78	1.38	194.21	7483.98	91.04	239.11	-239.67	255.85	69.16	0.05
7593.52	1.30	191.23	7578.70	88.88	238.62	-239.17	254.63	69.57	0.12
7688.26	1.37	182.84	7673.41	86.69	238.35	-238.89	253.63	70.01	0.22
7783.00	1.36	184.90	7768.12	84.44	238.20	-238.72	252.72	70.48	0.05
7877.74	1.39	187.64	7862.84	82.18	237.95	-238.46	251.74	70.95	0.08
7972.48	1.26	189.92	7957.55	80.02	237.62	-238.12	250.73	71.39	0.15
8067.22	1.20	200.27	8052.27	78.06	237.10	-237.58	249.62	71.78	0.24
8161.96	1.05	213.17	8146.99	76.41	236.28	-236.75	248.33	72.08	0.31
8256.70	0.94	248.33	8241.72	75.39	235.08	-235.55	246.87	72.22	0.65
8351.44	1.10	262.42	8336.44	74.99	233.45	-233.92	245.20	72.19	0.31
8446.18	1.42	249.07	8431.16	74.45	231.45	-231.92	243.13	72.17	0.46
8540.92	1.49	234.44	8525.87	73.31	229.35	-229.80	240.78	72.27	0.40
8635.66	1.98	231.27	8620.57	71.56	227.07	-227.51	238.08	72.51	0.52
8762.00	13.69	259.95	8745.53	67.57	210.58	-211.00	221.16	72.21	9.49



VES Survey International
Midland, Texas
432-563-5444
Surveyor: Michael Cook
Rustler Breaks 12 24 27 No. 204H / API 30-015-43194





I, Michael Cook certify that I am employed by VES Survey International. That I did on the day(s) 02/14/17 through 02/14/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 8,762.00 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 Resources for the Rustler Breaks 12-24S-27E RB Well # 204H API # 30-015-43194 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.

Michael Cook
Service Technician
VES Survey International

MCook



Matador Resources

Eddy County, NM

Rustler Breaks 12-24S-27E

No. 204H

OH

Survey: ProDirectional

Survey Report

23 February, 2017

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 30 2017

RECEIVED





ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Rustler Breaks 12-24S-27E
Well: No. 204H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference: Well No. 204H
MD Reference: Well @ 3120.00usft (GL: 3091' + KB: 29' (Pat274))
North Reference: Well @ 3120.00usft (GL: 3091' + KB: 29' (Pat274))
Survey Calculation Method: Grid
Database: Minimum Curvature
WellPlanner1

Project Eddy County, NM
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum:

Mean Sea Level

Site Rustler Breaks 12-24S-27E
Site Position: Map
Position Uncertainty: 0.00 usft

Northing: 445,964.00 usft
Easting: 561,028.00 usft
Slot Radius: 13.3/16 "

Latitude: 32° 13' 33.305 N
Longitude: 104° 8' 9.529 W
Grid Convergence: 0.11 °

Well No. 204H
Well Position +N/S 0.00 usft
+E/W 0.00 usft
Position Uncertainty 0.00 usft

Northing: 445,964.00 usft
Easting: 561,028.00 usft
Wellhead Elevation: usft

Latitude: 32° 13' 33.305 N
Longitude: 104° 8' 9.529 W
Ground Level: 3,091.00 usft

Wellbore OH
Magnetics Model Name Sample Date
HDGM 2/10/2017

Declination (°)
7.40

Dip Angle (°)
60.05

Field Strength (nT)
48,132.20

Design MWD
Audit Notes: Version: 1.0

Phase: ACTUAL
Depth From (TVD) (usft)
0.00

+N/S (usft)
0.00
+E/W (usft)
0.00
Tie On Depth: 0.00

Direction (°)
269.64



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Rustler Breaks 12-24S-27E
Well: No. 204H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well No. 204H
Well @ 3120.00usft (G.L. 3091' + KB: 29' (Pat1274))
Well @ 3120.00usft (G.L. 3091' + KB: 29' (Pat1274))
Grid
Minimum Curvature
WellPlanner1

Survey Program	Date	2/23/2017	Tool Name	Description
From (usft)	To (usft)	Survey (Wellbore)		
109.06	8,762.00	Survey #1 (OH)	GYD_DP_MS	Gyrodata gyro-compassing and drop
8,773.00	14,064.00	Survey #2 (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	445,964.00	561,028.00
	109.06	0.82	125.05	109.06	-0.64	-0.45	0.64	0.78	125.05	445,963.55	561,028.64
	203.80	0.87	95.79	203.79	-1.90	-0.91	1.91	2.12	115.48	445,963.09	561,029.91
	298.54	0.74	127.58	298.52	-3.10	-1.36	3.11	3.39	113.55	445,962.64	561,031.11
	393.28	2.14	149.46	393.23	-4.47	-3.25	4.49	5.55	125.90	445,960.75	561,032.49
	488.02	2.70	158.84	487.88	-6.16	-6.86	6.20	9.24	137.89	445,957.14	561,034.20
	582.76	3.40	152.44	582.49	-8.23	-11.43	8.30	14.13	144.00	445,952.57	561,036.30
	677.50	3.81	121.22	677.05	-12.20	-15.55	12.30	19.82	141.67	445,948.45	561,040.30
	772.24	5.60	90.86	771.48	-19.50	-17.25	19.61	26.12	131.34	445,946.75	561,047.61
	866.98	7.17	81.87	866.63	-29.98	-16.49	30.09	34.31	118.72	445,947.51	561,058.09
	961.72	7.62	77.24	959.58	-41.98	-14.26	42.07	44.42	108.73	445,949.74	561,070.07
	1,056.46	7.51	76.92	1,053.50	-54.15	-11.47	54.22	55.42	101.95	445,952.53	561,082.22
	1,151.20	7.36	71.21	1,147.44	-65.95	-8.12	66.00	66.50	97.01	445,955.88	561,094.00
	1,245.94	6.93	71.83	1,241.45	-77.15	-4.38	77.17	77.30	93.25	445,959.62	561,105.17
	1,340.68	6.47	69.50	1,335.54	-87.60	-0.73	87.60	87.61	90.48	445,963.27	561,115.60
	1,435.42	6.03	66.43	1,429.72	-97.18	3.13	97.17	97.22	88.15	445,967.13	561,125.17
	1,530.16	5.51	65.95	1,523.98	-105.92	6.97	105.88	106.11	86.23	445,970.97	561,133.88
	1,624.90	5.50	68.34	1,618.28	-114.32	10.50	114.25	114.73	84.75	445,974.50	561,142.25
	1,719.64	5.94	69.36	1,712.55	-123.14	13.91	123.06	123.84	83.55	445,977.91	561,151.06
	1,814.38	7.07	61.80	1,806.68	-132.90	16.39	132.79	134.05	82.12	445,982.39	561,160.79
	1,909.12	7.26	59.02	1,900.68	-143.20	24.23	143.06	145.09	80.39	445,988.23	561,171.06



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Rustler Breaks 12-24S-27E
Well: No. 204H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3120.00usft (GL: 3091' + KB: 29' (Pat274))
MD Reference: Well @ 3120.00usft (GL: 3091' + KB: 29' (Pat274))
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)
	2,003.86	7.62	73.21	1,994.63	-154.38	29.12	154.20	156.93	79.31	445,993.12	561,182.20
	2,098.60	7.82	74.98	2,088.51	-166.64	32.61	166.44	169.61	78.92	445,996.61	561,194.44
	2,193.34	7.15	72.40	2,182.44	-178.51	36.06	178.29	181.90	78.57	446,000.06	561,206.29
	2,288.08	6.13	67.17	2,276.55	-188.81	39.81	188.57	192.73	78.08	446,003.81	561,216.57
	2,382.82	5.07	61.33	2,370.83	-197.17	43.78	196.91	201.71	77.47	446,007.78	561,224.91
	2,477.56	4.54	59.30	2,465.24	-204.10	47.70	203.80	209.31	76.83	446,011.70	561,231.80
	2,572.30	4.35	59.80	2,559.70	-210.45	51.42	210.13	216.33	76.25	446,015.42	561,238.13
	2,667.04	4.49	57.99	2,654.15	-216.72	55.20	216.38	222.31	75.69	446,019.20	561,244.38
	2,761.78	4.31	57.91	2,748.62	-222.91	59.05	222.54	230.24	75.14	446,023.05	561,250.54
	2,856.52	3.77	52.08	2,843.12	-228.40	62.86	228.02	236.52	74.59	446,026.86	561,256.02
	2,951.26	2.46	29.92	2,937.72	-231.90	66.53	231.49	240.86	73.96	446,030.53	561,259.49
	3,046.00	2.67	22.89	3,032.37	-233.79	70.33	233.36	243.73	73.23	446,034.33	561,261.36
	3,140.74	2.53	23.19	3,127.01	-235.50	74.28	235.04	246.50	72.46	446,038.28	561,263.04
	3,235.48	2.49	25.06	3,221.66	-237.22	78.07	236.74	249.28	71.75	446,042.07	561,264.74
	3,330.22	2.49	25.75	3,316.31	-239.01	81.79	238.50	252.14	71.07	446,045.79	561,266.50
	3,424.96	2.38	21.08	3,410.96	-240.63	85.48	240.10	254.87	70.40	446,049.48	561,268.10
	3,519.70	1.71	29.42	3,505.64	-242.05	88.54	241.51	257.23	69.87	446,052.54	561,269.51
	3,614.44	0.53	63.10	3,600.36	-243.15	89.97	242.59	258.74	69.65	446,053.97	561,270.59
	3,709.18	0.43	57.91	3,695.10	-243.84	90.36	243.28	259.52	69.62	446,054.36	561,271.28
	3,803.92	0.36	352.48	3,789.84	-244.10	90.84	243.55	259.94	69.54	446,054.84	561,271.55
	3,898.66	0.40	333.60	3,884.58	-243.92	91.44	243.36	259.97	69.41	446,055.44	561,271.36
	3,993.40	0.47	302.45	3,979.31	-243.45	91.94	242.88	259.70	69.27	446,055.94	561,270.88
	4,088.14	0.50	308.59	4,074.05	-242.80	92.41	242.23	259.26	69.12	446,056.41	561,270.23
	4,182.88	0.55	318.65	4,168.79	-242.18	93.01	241.61	258.89	68.95	446,057.01	561,269.61
	4,277.62	0.58	311.21	4,263.52	-241.53	93.66	240.95	258.51	68.76	446,057.66	561,268.95
	4,372.36	0.57	313.10	4,358.26	-240.82	94.30	240.24	258.09	68.57	446,058.30	561,268.24
	4,467.10	0.65	317.76	4,452.99	-240.12	95.02	239.54	257.70	68.36	446,059.02	561,267.54



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Rustler Breaks 12-24S-27E
Well: No. 204H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3120.00usft (GL: 3091' + KB: 29' (Pat274))
MD Reference: Well @ 3120.00usft (GL: 3091' + KB: 29' (Pat274))
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)
	4,561.84	0.57	314.25	4,547.73	-239.43	95.75	238.84	257.32	68.15	446,059.75	561,266.84
	4,656.58	0.54	336.08	4,642.46	-238.92	96.49	238.32	257.11	67.96	446,060.49	561,266.32
	4,751.32	0.60	329.47	4,737.20	-238.49	97.32	237.89	257.03	67.75	446,061.32	561,265.89
	4,846.06	0.70	308.90	4,831.93	-237.79	98.11	237.19	256.68	67.53	446,062.11	561,265.19
	4,940.80	0.74	309.37	4,926.66	-236.87	98.86	236.26	256.11	67.29	446,062.86	561,264.26
	5,035.54	0.93	292.93	5,021.39	-235.70	99.55	235.08	255.29	67.05	446,063.55	561,263.08
	5,130.28	1.04	284.23	5,116.12	-234.16	100.06	233.54	254.07	66.81	446,064.06	561,261.54
	5,225.02	1.25	282.78	5,210.84	-232.32	100.50	231.70	252.56	66.55	446,064.50	561,259.70
	5,319.76	1.37	274.36	5,305.56	-230.18	100.82	229.56	250.72	66.29	446,064.82	561,257.56
	5,414.50	1.73	252.98	5,400.26	-227.68	100.48	227.07	248.31	66.13	446,064.48	561,255.07
	5,509.24	1.68	241.18	5,494.96	-225.09	99.40	224.48	245.50	66.12	446,063.40	561,252.48
	5,603.98	1.70	154.09	5,589.67	-224.48	97.46	223.88	244.17	66.47	446,061.46	561,251.88
	5,698.72	1.07	118.71	5,684.39	-225.86	95.77	225.27	244.78	66.97	446,059.77	561,253.27
	5,793.46	0.92	122.05	5,779.11	-227.27	94.94	226.69	245.77	67.27	446,058.94	561,254.69
	5,888.20	0.60	148.24	5,873.84	-228.17	94.12	227.59	246.29	67.53	446,058.12	561,255.59
	5,982.94	0.95	288.59	5,968.58	-227.69	93.95	227.11	245.78	67.53	446,057.95	561,255.11
	6,077.68	1.40	299.41	6,063.30	-225.94	94.77	225.36	244.47	67.19	446,058.77	561,253.36
	6,172.42	1.33	321.00	6,158.01	-224.25	96.19	223.66	243.47	66.73	446,060.19	561,251.66
	6,267.16	1.24	61.81	6,252.74	-224.47	97.53	223.87	244.19	66.46	446,061.53	561,251.87
	6,361.90	1.35	56.91	6,347.45	-226.32	98.62	225.71	246.31	66.40	446,062.62	561,253.71
	6,456.64	1.62	57.43	6,442.16	-228.39	99.95	227.77	248.74	66.31	446,063.95	561,255.77
	6,551.38	1.75	64.56	6,536.86	-230.83	101.29	230.21	251.51	66.25	446,065.29	561,258.21
	6,646.12	1.49	64.42	6,631.56	-233.26	102.45	232.62	254.18	66.23	446,066.45	561,260.62
	6,740.86	1.42	63.36	6,726.27	-235.42	103.51	234.78	256.59	66.21	446,067.51	561,262.78
	6,835.60	1.40	77.32	6,820.98	-237.61	104.29	236.96	258.90	66.25	446,068.29	561,264.96
	6,930.34	1.48	151.31	6,915.70	-239.32	103.47	238.68	260.14	66.56	446,067.47	561,266.68
	7,025.08	1.45	155.48	7,010.41	-240.39	101.30	239.76	260.29	67.10	446,065.30	561,267.76



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Rustler Breaks 12-24S-27E
Well: No. 204H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference: Well No. 204H
MD Reference: Well @ 3120.00usft (GL: 3091' + KB: 29' (Pat1274))
North Reference: Well @ 3120.00usft (GL: 3091' + KB: 29' (Pat1274))
Survey Calculation Method: Grid
Database: Minimum Curvature
WellPlanner!

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)
	7,119.82	1.26	151.83	7,105.12	-241.37	99.29	240.75	260.43	67.59	446,063.29	561,268.75
	7,214.56	1.16	188.68	7,199.84	-241.70	97.43	241.10	260.04	68.00	446,061.43	561,269.10
	7,309.30	1.45	203.98	7,294.56	-241.06	95.38	240.47	258.70	68.36	446,059.38	561,268.47
	7,404.04	1.38	196.31	7,389.27	-240.24	93.19	239.66	257.14	68.75	446,057.19	561,267.66
	7,498.78	1.38	194.21	7,483.98	-239.62	90.99	239.06	255.79	69.16	446,054.99	561,267.06
	7,593.52	1.30	191.23	7,578.70	-239.12	88.83	238.57	254.57	69.58	446,052.83	561,266.57
	7,688.26	1.37	182.84	7,673.41	-238.84	86.65	238.31	253.57	70.02	446,050.65	561,266.31
	7,783.00	1.36	184.90	7,768.13	-238.67	84.40	238.15	252.67	70.49	446,048.40	561,266.15
	7,877.74	1.39	187.64	7,862.84	-238.41	82.14	237.91	251.68	70.95	446,046.14	561,265.91
	7,972.48	1.26	189.92	7,957.55	-238.06	79.97	237.57	250.67	71.40	446,043.97	561,265.57
	8,067.22	1.20	200.27	8,052.27	-237.53	78.02	237.05	249.56	71.78	446,042.02	561,265.05
	8,161.96	1.05	213.17	8,146.99	-236.70	76.36	236.23	248.27	72.09	446,040.36	561,264.23
	8,256.70	0.94	248.33	8,241.72	-235.50	75.34	235.03	246.82	72.23	446,039.34	561,263.03
	8,351.44	1.10	262.42	8,336.44	-233.87	74.94	233.41	245.14	72.20	446,038.94	561,261.41
	8,446.18	1.42	249.07	8,431.16	-231.87	74.40	231.41	243.08	72.18	446,038.40	561,259.41
	8,540.92	1.49	234.44	8,525.87	-229.76	73.26	229.31	240.73	72.28	446,037.26	561,257.31
	8,635.66	1.98	231.27	8,620.57	-227.47	71.52	227.04	238.03	72.51	446,035.52	561,255.04
	8,762.00	13.69	259.95	8,745.53	-210.97	67.53	210.55	221.12	72.22	446,031.53	561,238.55
	8,773.00	14.20	263.60	8,756.21	-208.34	67.16	207.93	218.50	72.10	446,031.16	561,235.93
Pro MWD First Survey: 8773 MD											
	8,820.00	21.40	267.40	8,800.93	-194.02	66.12	193.61	204.59	71.14	446,030.12	561,221.61
	8,868.00	27.10	266.30	8,844.68	-174.34	65.02	173.94	185.70	69.50	446,029.02	561,201.94
	8,916.00	29.80	265.80	8,886.88	-151.52	63.44	151.13	163.91	67.23	446,027.44	561,179.13
	8,963.00	31.70	268.10	8,927.27	-127.52	62.18	127.14	141.53	63.94	446,026.18	561,155.14
	9,011.00	34.60	268.30	8,967.45	-101.28	61.35	100.91	118.09	58.70	446,025.35	561,128.91
	9,059.00	36.80	268.30	9,006.43	-73.28	60.52	72.91	94.76	50.30	446,024.52	561,100.91
	9,107.00	38.70	268.70	9,044.38	-43.90	59.75	43.53	73.93	36.08	446,023.75	561,071.53



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Rustler Breaks 12-24S-27E
Well: No. 204H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
Well No. 204H
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well @ 3120.00ustf (GL: 3091' + KB: 29' (Pat#274))
Well @ 3120.00ustf (GL: 3091' + KB: 29' (Pat#274))
Grid
Minimum Curvature
Wellplaner1

Survey	MD (ustf)	Inc (°)	Azi (azimuth) (°)	TVD (ustf)	V. Sec (ustf)	N/S (ustf)	EW (ustf)	Closure Distance (ustf)	Closure Azimuth (°)	Northing (ustf)	Easting (ustf)
HL Xing: 9216' MD	9,154.00	41.70	270.30	9,080.28	-13.57	59.50	13.21	60.95	12.51	446,023.50	561,041.21
	9,201.00	44.60	268.30	9,114.56	18.56	59.10	-18.93	62.05	342.24	446,023.10	561,009.07
	9,216.00	46.60	267.21	9,125.06	29.27	58.67	-29.64	65.73	333.20	446,022.67	560,998.36
	9,248.00	50.90	265.10	9,146.15	53.28	57.05	-53.63	78.30	316.77	446,021.05	560,974.37
	9,297.00	53.70	263.00	9,176.12	91.85	53.01	-92.19	106.34	299.90	446,017.01	560,935.81
	9,344.00	59.80	263.60	9,201.87	130.90	48.44	-131.20	139.86	290.26	446,012.44	560,896.80
	9,392.00	67.10	266.30	9,223.32	173.66	44.69	-173.94	179.59	284.41	446,008.69	560,854.06
	9,439.00	73.10	267.20	9,239.31	217.78	42.20	-218.05	222.09	280.95	446,006.20	560,809.95
	9,487.00	76.90	268.00	9,251.73	264.11	40.26	-264.36	267.41	278.66	446,004.26	560,763.64
	9,507.00	78.50	267.70	9,255.99	283.64	39.52	-283.89	286.63	277.93	446,003.52	560,744.11
	9,591.00	83.30	267.20	9,269.27	366.49	35.83	-366.72	366.47	275.58	445,999.83	560,661.28
	9,622.00	83.70	267.70	9,272.78	397.27	34.46	-397.49	398.98	274.96	445,998.46	560,630.51
	9,654.00	83.70	267.60	9,276.29	429.06	33.16	-429.27	430.55	274.42	445,997.16	560,598.73
	9,685.00	84.30	267.70	9,279.53	459.87	31.89	-460.08	461.18	273.97	445,995.89	560,567.92
	9,717.00	84.40	267.50	9,282.68	491.70	30.56	-491.89	492.84	273.56	445,994.56	560,536.11
	9,748.00	85.20	267.30	9,285.49	522.54	29.16	-522.73	523.55	273.19	445,993.16	560,505.27
	9,780.00	85.90	267.80	9,287.98	554.43	27.80	-554.61	555.31	272.87	445,991.80	560,473.39
	9,811.00	85.80	267.60	9,290.22	585.33	26.56	-585.50	586.10	272.60	445,990.56	560,442.50
	9,843.00	85.90	267.50	9,292.54	617.22	25.19	-617.39	617.90	272.34	445,989.19	560,410.61
	9,874.00	87.90	266.90	9,294.21	648.15	23.68	-648.31	648.74	272.09	445,987.68	560,379.69
	9,905.00	89.50	266.60	9,294.92	679.10	21.92	-679.25	679.60	271.85	445,986.92	560,348.75
	9,937.00	90.20	266.50	9,295.00	711.05	20.00	-711.19	711.47	271.61	445,984.00	560,316.81
	9,968.00	92.10	267.10	9,294.38	742.00	18.27	-742.13	742.36	271.41	445,982.27	560,285.87
	10,063.00	91.90	266.90	9,291.06	836.85	13.30	-836.94	837.05	270.91	445,977.30	560,191.06
	10,157.00	94.10	267.50	9,286.14	930.63	8.71	-930.70	930.74	270.54	445,972.71	560,097.30
	10,252.00	93.00	268.40	9,280.26	1,025.40	5.32	-1,025.45	1,025.47	270.30	445,969.32	560,002.55



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Rustler Breaks 12-24S-27E
Well: No. 204H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well No. 204H
TVD Reference: Well @ 3120.00usft (G.L. 3091' + KB: 29' (Pat1274))
MD Reference: Well @ 3120.00usft (G.L. 3091' + KB: 29' (Pat1274))
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)
	10,345.00	93.20	268.20	9,275.23	1,118.24	2.57	-1,118.27	1,118.28	270.13	445,966.57	559,909.73
	10,440.00	94.40	269.60	9,268.93	1,213.02	0.74	-1,213.04	1,213.04	270.04	445,964.74	559,814.96
	10,534.00	90.70	268.50	9,264.75	1,306.90	-0.81	-1,306.92	1,306.92	269.96	445,963.19	559,721.08
	10,629.00	89.70	268.30	9,264.42	1,401.88	-3.47	-1,401.88	1,401.89	269.86	445,960.53	559,626.12
	10,724.00	91.40	268.90	9,263.51	1,496.85	-5.79	-1,496.84	1,496.86	269.78	445,958.21	559,531.16
	10,818.00	92.40	270.40	9,260.39	1,590.80	-6.36	-1,590.79	1,590.80	269.77	445,957.64	559,437.21
	10,912.00	92.00	270.80	9,256.78	1,684.71	-5.38	-1,684.71	1,684.72	269.82	445,958.62	559,343.29
	11,007.00	92.10	270.10	9,253.39	1,779.64	-4.63	-1,779.65	1,779.65	269.85	445,959.37	559,248.35
	11,101.00	92.10	270.40	9,249.94	1,873.57	-4.22	-1,873.58	1,873.59	269.87	445,959.78	559,154.42
	11,196.00	91.70	270.20	9,246.79	1,968.52	-3.72	-1,968.53	1,968.53	269.89	445,960.28	559,059.47
	11,290.00	91.90	270.40	9,243.84	2,062.46	-3.23	-2,062.48	2,062.49	269.91	445,960.77	558,965.52
	11,385.00	93.20	270.20	9,239.61	2,157.36	-2.74	-2,157.39	2,157.39	269.93	445,961.26	558,870.61
	11,479.00	93.40	270.40	9,234.20	2,251.20	-2.24	-2,251.23	2,251.23	269.94	445,961.76	558,776.77
	11,574.00	91.60	270.70	9,230.06	2,346.09	-1.33	-2,346.13	2,346.13	269.97	445,962.67	558,681.87
	11,669.00	91.50	271.10	9,227.49	2,441.03	0.16	-2,441.08	2,441.08	270.00	445,964.16	558,586.92
	11,764.00	89.90	270.80	9,226.33	2,536.00	1.73	-2,536.06	2,536.06	270.04	445,965.73	558,491.94
	11,858.00	89.50	271.00	9,226.82	2,629.98	3.21	-2,630.05	2,630.05	270.07	445,967.21	558,397.95
	11,953.00	89.80	271.20	9,227.40	2,724.94	5.03	-2,725.03	2,725.03	270.11	445,969.03	558,302.97
	12,047.00	89.80	271.70	9,227.73	2,818.90	7.41	-2,819.00	2,819.01	270.15	445,971.41	558,209.00
	12,142.00	89.10	270.60	9,228.64	2,913.86	9.32	-2,913.97	2,913.99	270.18	445,973.32	558,114.03
	12,236.00	89.30	269.00	9,229.95	3,007.84	8.99	-3,007.96	3,007.97	270.17	445,972.99	558,020.04
	12,330.00	90.40	269.20	9,230.20	3,101.84	7.51	-3,101.94	3,101.95	270.14	445,971.51	557,926.06
	12,424.00	91.60	269.60	9,228.56	3,195.82	6.53	-3,195.92	3,195.93	270.12	445,970.53	557,832.08
	12,518.00	91.70	269.60	9,225.85	3,289.78	5.87	-3,289.88	3,289.89	270.10	445,969.87	557,738.12
	12,614.00	91.20	269.60	9,223.42	3,385.75	5.20	-3,385.85	3,385.85	270.09	445,969.20	557,642.15
	12,709.00	93.30	268.90	9,219.69	3,480.67	3.96	-3,480.76	3,480.76	270.07	445,967.96	557,547.24
	12,803.00	92.90	268.40	9,214.61	3,574.52	1.75	-3,574.60	3,574.60	270.03	445,965.75	557,453.40



ProDirectional Survey Report



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TVD Reference: Well @ 3120.00usft (GL: 3091' + KB: 29' (Pat274))
MD Reference: Well @ 3120.00usft (GL: 3091' + KB: 29' (Pat274))
North Reference: Grd
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
12,897.00		92.30	269.10	9,210.34	3,668.41	-0.30	-3,668.48	3,668.48	270.00	445,963.70	557,359.52
12,991.00		93.30	269.60	9,205.75	3,762.29	-1.36	-3,762.36	3,762.36	269.98	445,962.64	557,265.64
13,086.00		95.70	270.20	9,198.30	3,856.99	-1.53	-3,857.06	3,857.06	269.98	445,962.47	557,170.94
13,180.00		93.90	269.90	9,190.43	3,950.66	-1.45	-3,950.72	3,950.72	269.98	445,962.55	557,077.28
13,275.00		93.20	269.50	9,184.55	4,045.47	-1.94	-4,045.54	4,045.54	269.97	445,962.06	556,982.46
13,369.00		92.80	269.20	9,179.63	4,139.34	-3.01	-4,139.40	4,139.40	269.96	445,960.99	556,888.60
13,463.00		90.60	268.00	9,176.84	4,233.28	-5.31	-4,233.33	4,233.33	269.93	445,958.69	556,794.67
13,557.00		90.00	267.70	9,176.35	4,327.23	-8.83	-4,327.26	4,327.27	269.88	445,955.17	556,700.74
13,652.00		92.50	267.70	9,174.28	4,422.14	-12.64	-4,422.15	4,422.17	269.84	445,951.36	556,605.85
13,746.00		92.30	267.40	9,170.34	4,516.00	-16.66	-4,515.98	4,516.01	269.79	445,947.34	556,512.02
13,840.00		90.80	266.00	9,167.80	4,609.84	-22.07	-4,609.79	4,609.84	269.73	445,941.93	556,418.21
13,935.00		92.10	267.90	9,165.40	4,704.69	-27.12	-4,704.62	4,704.69	269.67	445,936.88	556,323.38
13,973.00		92.10	267.90	9,164.00	4,742.65	-28.51	-4,742.57	4,742.65	269.66	445,935.49	556,285.43
HL Xing: 13973' MD											
13,991.00		92.10	267.90	9,163.34	4,760.63	-29.17	-4,760.54	4,760.63	269.65	445,934.83	556,267.46
Last Survey: 13991' MD, 9163.34' TVD											
14,064.00		92.10	267.90	9,160.67	4,833.55	-31.84	-4,833.44	4,833.55	269.62	445,932.16	556,194.56
PTB: 14064' MD, 9160.67' TVD											
Design Annotations											
Local Coordinates											
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)		+E/-W (usft)		Comment					
8,773.00	8,756.21	67.16		207.93		Pro MWD First Survey: 8773' MD					
9,216.00	9,125.06	58.67		-29.64		HL Xing: 9216' MD					
13,973.00	9,164.00	-28.51		-4,742.57		HL Xing: 13973' MD					
13,991.00	9,163.34	-29.17		-4,760.54		Last Survey: 13991' MD, 9163.34' TVD					
14,064.00	9,160.67	-31.84		-4,833.44		PTB: 14064' MD, 9160.67' TVD					