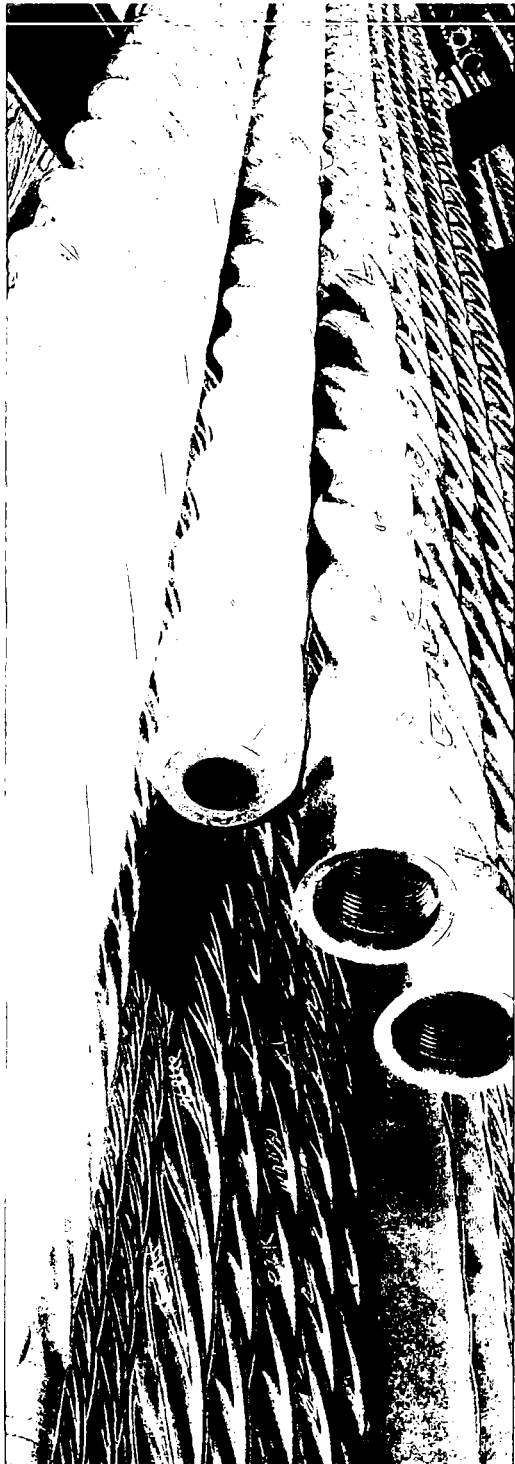




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JUL 26 2018

DISTRICT II-ARTESIA O.C.D.



Joe Coleman 13-23S-27E RB No. 201H

Eddy County, NM

30-015-44608

June 11, 2018

Job No. LNM5170418

ORIGINAL

Survey Completion Report



Survey Certification Letter

June 11, 2018



Operator Name: Matador Resources
Well Name: Joe Coleman 13-23S-27E RB No. 201H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5170418

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	149' MD – 14,185' MD	14,249' MD	04/13/18 – 05/16/18	MWD

Sincerely,

Mike Coats

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

Joe Coleman 13-23S-27E RB

No. 201H

OH

Survey: ProDirectional

Survey Report

11 June, 2018





ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Joe Coleman 13-23S-27E RB
Well: No. 201H
Wellbore: OH
Design: MWD-149'-14185', Proj. 14249'

Local Co-ordinate Reference: Well No. 201H
TVD Reference: Well @ 3131.50usft
MD Reference: Well @ 3131.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project Eddy County, NM(NAD 83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Joe Coleman 13-23S-27E RB

Site Position:		Northing:	476,982.00 usft	Latitude:	32.311168
From:	Map	Easting:	596,884.00 usft	Longitude:	-104.153534
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.10 °

Well No. 201H

Well Position	+N/-S	0.00 usft	Northing:	476,982.00 usft	Latitude:	32.311168
	+E/-W	0.00 usft	Easting:	596,884.00 usft	Longitude:	-104.153534
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,103.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/3/2018	7.32	60.07	48,017.50

Design MWD-149'-14185', Proj. 14249'

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	89.82

Survey Program **Date** 6/11/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
149.00	14,249.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Joe Coleman 13-23S-27E RB
Well: No. 201H
Wellbore: OH
Design: MWD-149'-14185', Proj. 14249'

Local Co-ordinate Reference: Well No. 201H
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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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	476,982.00	596,884.00	
149.00	0.20	219.00	149.00	-0.16	-0.20	-0.16	0.26	219.00	476,981.80	596,883.84	
Pro MWD First Survey: 149' MD											
241.00	0.30	258.90	241.00	-0.50	-0.37	-0.50	0.62	233.32	476,981.63	596,883.50	
332.00	0.30	217.20	332.00	-0.88	-0.61	-0.88	1.07	235.29	476,981.39	596,883.12	
399.00	0.30	189.00	399.00	-1.02	-0.92	-1.01	1.37	227.68	476,981.08	596,882.99	
519.00	1.60	88.10	518.98	0.61	-1.18	0.61	1.33	152.48	476,980.82	596,884.61	
609.00	1.90	77.70	608.94	3.32	-0.82	3.33	3.43	103.80	476,981.18	596,887.33	
700.00	2.30	81.30	699.88	6.60	-0.22	6.61	6.61	91.90	476,981.78	596,890.61	
791.00	1.90	78.20	790.82	9.89	0.37	9.89	9.89	87.88	476,982.37	596,893.89	
882.00	0.90	86.20	881.79	12.08	0.72	12.08	12.10	86.58	476,982.72	596,896.08	
977.00	0.40	171.70	976.78	12.87	0.44	12.87	12.88	88.03	476,982.44	596,896.87	
1,072.00	0.50	197.20	1,071.78	12.79	-0.28	12.79	12.80	91.26	476,981.72	596,896.79	
1,168.00	0.40	192.10	1,167.78	12.60	-1.01	12.60	12.64	94.58	476,980.99	596,896.60	
1,263.00	0.50	209.40	1,262.78	12.32	-1.69	12.33	12.44	97.83	476,980.31	596,896.33	
1,358.00	0.60	299.30	1,357.77	11.68	-1.81	11.69	11.83	98.81	476,980.19	596,895.69	
1,453.00	0.30	127.10	1,452.77	11.45	-1.72	11.45	11.58	98.54	476,980.28	596,895.45	
1,548.00	1.70	119.80	1,547.75	12.87	-2.57	12.88	13.13	101.29	476,979.43	596,896.88	
1,644.00	3.30	129.60	1,643.66	16.23	-5.04	16.24	17.00	107.24	476,976.96	596,900.24	
1,739.00	4.10	138.70	1,738.46	20.56	-9.33	20.59	22.61	114.38	476,972.67	596,904.59	
1,834.00	5.10	139.80	1,833.15	25.51	-15.11	25.56	29.69	120.59	476,966.89	596,909.56	
1,929.00	5.60	132.70	1,927.74	31.62	-21.48	31.69	38.28	124.13	476,960.52	596,915.69	
2,023.00	6.20	140.40	2,021.24	38.20	-28.50	38.29	47.74	126.66	476,953.50	596,922.29	
2,119.00	6.20	140.50	2,116.88	44.78	-36.49	44.90	57.86	129.11	476,945.51	596,928.90	
2,214.00	5.30	162.30	2,211.22	49.35	-44.63	49.49	66.65	132.04	476,937.37	596,933.49	
2,310.00	5.10	172.00	2,306.82	51.27	-53.08	51.44	73.92	135.90	476,928.92	596,935.44	
2,398.00	4.80	169.60	2,394.49	52.45	-60.58	52.65	80.26	139.01	476,921.42	596,936.65	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Joe Coleman 13-23S-27E RB
Well: No. 201H
Wellbore: OH
Design: MWD-149'-14185', Proj. 14249'

Local Co-ordinate Reference: Well No. 201H
TVD Reference: Well @ 3131.50usft
MD Reference: Well @ 3131.50usft
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)
2,486.00	5.10	167.40	2,482.17	53.95	-68.02	54.16	86.95	141.47	476,913.98	596,938.16
2,582.00	7.40	164.60	2,577.59	56.49	-78.14	56.74	96.57	144.02	476,903.86	596,940.74
2,676.00	7.30	165.10	2,670.82	59.60	-89.75	59.88	107.89	146.29	476,892.25	596,943.88
2,772.00	7.00	165.10	2,766.07	62.63	-101.30	62.95	119.26	148.14	476,880.70	596,946.95
2,867.00	8.50	160.90	2,860.20	66.38	-113.53	66.74	131.69	149.55	476,868.47	596,950.74
2,963.00	8.10	160.90	2,955.19	70.87	-126.62	71.27	145.30	150.63	476,855.38	596,955.27
3,058.00	7.40	162.20	3,049.33	74.90	-138.77	75.33	157.90	151.50	476,843.23	596,959.33
3,153.00	9.40	154.70	3,143.31	80.04	-151.61	80.52	171.67	152.03	476,830.39	596,964.52
3,249.00	9.10	154.60	3,238.06	86.60	-165.56	87.13	187.08	152.24	476,816.44	596,971.13
3,344.00	8.90	153.80	3,331.89	93.03	-178.94	93.59	201.94	152.39	476,803.06	596,977.59
3,440.00	8.80	153.60	3,426.74	99.53	-192.18	100.14	216.70	152.48	476,789.82	596,984.14
3,535.00	8.20	154.00	3,520.70	105.69	-204.78	106.34	230.74	152.56	476,777.22	596,990.34
3,630.00	7.80	153.90	3,614.78	111.46	-216.65	112.14	243.96	152.63	476,765.35	596,996.14
3,725.00	8.60	159.90	3,708.81	116.70	-229.11	117.42	257.45	152.86	476,752.89	597,001.42
3,821.00	8.30	160.80	3,803.76	121.40	-242.40	122.17	271.44	153.25	476,739.60	597,006.17
3,916.00	8.20	161.70	3,897.78	125.75	-255.31	126.55	284.95	153.63	476,726.69	597,010.55
4,011.00	8.10	160.80	3,991.82	130.03	-268.06	130.88	298.30	153.98	476,713.94	597,014.88
4,107.00	8.20	160.00	4,086.85	134.56	-280.88	135.44	311.83	154.26	476,701.12	597,019.44
4,202.00	7.70	160.00	4,180.94	139.01	-293.23	139.94	324.91	154.49	476,688.77	597,023.94
4,297.00	6.40	160.40	4,275.22	142.93	-304.19	143.89	336.51	154.69	476,677.81	597,027.89
4,392.00	7.50	161.90	4,369.52	146.60	-315.08	147.59	347.93	154.90	476,666.92	597,031.59
4,488.00	8.30	157.70	4,464.61	151.14	-327.44	152.17	361.07	155.08	476,654.56	597,036.17
4,583.00	9.60	163.60	4,558.45	155.93	-341.39	157.01	375.76	155.30	476,640.61	597,041.01
4,678.00	8.30	168.90	4,652.29	159.44	-355.72	160.56	390.27	155.71	476,626.28	597,044.56
4,773.00	9.50	162.80	4,746.15	163.04	-369.93	164.20	404.74	156.07	476,612.07	597,048.20
4,869.00	8.60	157.90	4,840.96	168.04	-384.15	169.24	419.78	156.22	476,597.85	597,053.24
4,964.00	7.50	158.30	4,935.02	172.96	-396.50	174.21	433.08	156.28	476,585.50	597,058.21



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Joe Coleman 13-23S-27E RB
Well: No. 201H
Wellbore: OH
Design: MWD-149'-14185', Proj. 14249'

Local Co-ordinate Reference: Well No. 201H
TVD Reference: Well @ 3131.50usft
MD Reference: Well @ 3131.50usft
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)	
5,060.00	8.20	155.10	5,030.12	178.12	-408.53	179.41	446.19	156.29	476,573.47	597,063.41	
5,155.00	6.80	157.90	5,124.30	183.06	-419.88	184.38	458.58	156.29	476,562.12	597,068.38	
5,251.00	7.50	165.60	5,219.56	186.72	-431.22	188.07	470.45	156.44	476,550.78	597,072.07	
5,346.00	6.90	167.30	5,313.81	189.48	-442.79	190.87	482.18	156.68	476,539.21	597,074.87	
5,442.00	6.30	163.90	5,409.17	192.17	-453.48	193.60	493.07	156.88	476,528.52	597,077.60	
5,537.00	8.00	151.70	5,503.44	196.72	-464.31	198.18	504.83	156.89	476,517.69	597,082.18	
5,632.00	7.40	151.60	5,597.58	202.73	-475.51	204.22	517.51	156.76	476,506.49	597,088.22	
5,727.00	6.70	155.30	5,691.86	207.92	-485.93	209.45	529.14	156.68	476,496.07	597,093.45	
5,823.00	4.70	145.20	5,787.38	212.48	-494.24	214.03	538.60	156.58	476,487.76	597,098.03	
5,918.00	4.60	139.00	5,882.07	217.18	-500.31	218.75	546.05	156.38	476,481.69	597,102.75	
6,014.00	3.30	131.10	5,977.84	221.77	-505.04	223.36	552.23	156.14	476,476.96	597,107.36	
6,109.00	3.00	107.80	6,072.70	226.19	-507.59	227.79	556.36	155.83	476,474.41	597,111.79	
6,204.00	2.70	147.10	6,167.59	229.77	-510.23	231.37	560.24	155.61	476,471.77	597,115.37	
6,300.00	2.90	171.60	6,263.48	231.34	-514.53	232.96	564.81	155.64	476,467.47	597,116.96	
6,395.00	2.60	181.70	6,358.37	231.61	-519.07	233.24	569.06	155.80	476,462.93	597,117.24	
6,490.00	2.70	201.30	6,453.27	230.72	-523.30	232.37	572.57	156.06	476,458.70	597,116.37	
6,586.00	2.10	211.70	6,549.19	228.96	-526.91	230.62	575.17	156.36	476,455.09	597,114.62	
6,681.00	2.50	224.80	6,644.11	226.58	-529.86	228.25	576.93	156.70	476,452.14	597,112.25	
6,776.00	2.80	216.70	6,739.01	223.72	-533.19	225.40	578.87	157.08	476,448.81	597,109.40	
6,872.00	1.50	143.20	6,834.96	223.07	-536.08	224.75	581.28	157.25	476,445.92	597,108.75	
6,967.00	1.50	143.60	6,929.92	224.54	-538.07	226.23	583.70	157.20	476,443.93	597,110.23	
7,062.00	1.20	137.90	7,024.90	225.94	-539.81	227.64	585.85	157.13	476,442.19	597,111.64	
7,158.00	1.30	156.60	7,120.88	227.04	-541.56	228.74	587.88	157.10	476,440.44	597,112.74	
7,253.00	1.40	90.30	7,215.85	228.63	-542.55	230.33	589.42	157.00	476,439.45	597,114.33	
7,348.00	1.10	102.20	7,310.83	230.68	-542.75	232.38	590.41	156.82	476,439.25	597,116.38	
7,443.00	1.20	139.10	7,405.81	232.22	-543.69	233.93	591.88	156.72	476,438.31	597,117.93	
7,538.00	1.30	134.00	7,500.79	233.64	-545.20	235.35	593.83	156.65	476,436.80	597,119.35	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Joe Coleman 13-23S-27E RB
Well: No. 201H
Wellbore: OH
Design: MWD-149'-14185', Proj. 14249'

Local Co-ordinate Reference: Well No. 201H
TVD Reference: Well @ 3131.50usft
MD Reference: Well @ 3131.50usft
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)	
7,633.00	1.10	132.10	7,595.77	235.09	-546.56	236.81	595.65	156.57	476,435.44	597,120.81	
7,728.00	2.20	26.30	7,690.74	236.58	-545.53	238.29	595.30	156.40	476,436.47	597,122.29	
7,823.00	1.90	13.70	7,785.68	237.77	-542.37	239.47	592.88	156.18	476,439.63	597,123.47	
7,918.00	1.20	14.10	7,880.65	238.39	-539.87	240.09	590.85	156.02	476,442.13	597,124.09	
8,014.00	0.60	12.10	7,976.64	238.74	-538.41	240.44	589.65	155.94	476,443.59	597,124.44	
8,109.00	1.40	273.20	8,071.63	237.69	-537.85	239.38	588.72	156.01	476,444.15	597,123.38	
8,204.00	2.80	257.00	8,166.56	234.27	-538.31	235.96	587.76	156.33	476,443.69	597,119.96	
8,299.00	0.50	291.40	8,261.52	231.62	-538.68	233.32	587.04	156.58	476,443.32	597,117.32	
8,395.00	0.30	230.60	8,357.51	231.04	-538.69	232.73	586.81	156.63	476,443.31	597,116.73	
8,490.00	1.00	235.80	8,452.51	230.16	-539.31	231.85	587.04	156.74	476,442.69	597,115.85	
8,585.00	1.00	220.20	8,547.49	228.93	-540.41	230.63	587.57	156.89	476,441.59	597,114.63	
8,656.00	1.10	222.40	8,618.48	228.07	-541.39	229.77	588.13	157.00	476,440.61	597,113.77	
8,687.00	1.30	217.30	8,649.47	227.66	-541.89	229.36	588.43	157.06	476,440.11	597,113.36	
8,751.00	4.90	83.20	8,713.40	229.93	-542.14	231.64	589.55	156.86	476,439.86	597,115.64	
8,782.00	10.30	77.00	8,744.12	233.95	-541.36	235.65	590.43	156.48	476,440.64	597,119.65	
8,877.00	22.60	73.00	8,835.06	259.81	-534.09	261.49	594.66	153.91	476,447.91	597,145.49	
8,972.00	33.10	81.20	8,918.97	303.06	-524.75	304.71	606.81	149.86	476,457.25	597,188.71	
9,068.00	43.80	83.70	8,994.05	362.19	-517.07	363.82	632.24	144.87	476,464.93	597,247.82	
9,163.00	53.00	84.80	9,057.05	432.82	-510.01	434.43	669.95	139.58	476,471.99	597,318.43	
9,258.00	58.60	83.90	9,110.43	511.00	-502.26	512.58	717.64	134.42	476,479.74	597,396.58	
9,354.00	63.50	81.80	9,156.89	594.35	-491.77	595.90	772.61	129.53	476,490.23	597,479.90	
9,417.00	67.50	82.20	9,183.01	651.13	-483.80	652.65	812.41	126.55	476,498.20	597,536.65	
9,449.00	67.60	82.10	9,195.23	680.44	-479.76	681.95	833.80	125.13	476,502.24	597,565.95	
9,537.00	71.40	85.00	9,226.05	762.35	-470.53	763.83	897.13	121.63	476,511.47	597,647.83	
9,569.00	71.40	86.60	9,236.26	792.61	-468.31	794.08	921.89	120.53	476,513.69	597,678.08	
9,601.00	74.30	88.60	9,245.69	823.15	-467.03	824.63	947.69	119.53	476,514.97	597,708.63	
9,633.00	77.20	89.90	9,253.57	854.16	-466.63	855.63	974.60	118.61	476,515.37	597,739.63	



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Wellbore: OH
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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)
9,665.00	79.60	90.20		9,260.00	885.51	-466.65	886.98	1,002.25	117.75	476,515.35	597,770.98
9,696.00	79.90	90.30		9,265.52	916.01	-466.79	917.48	1,029.40	116.97	476,515.21	597,801.48
9,759.00	86.40	91.10		9,273.03	978.52	-467.55	980.00	1,085.82	115.51	476,514.45	597,864.00
9,855.00	87.10	90.10		9,278.47	1,074.36	-468.56	1,075.83	1,173.44	113.53	476,513.44	597,959.83
9,949.00	88.10	90.40		9,282.41	1,168.27	-468.97	1,169.75	1,260.25	111.85	476,513.03	598,053.75
10,044.00	87.30	89.80		9,286.22	1,263.19	-469.13	1,264.67	1,348.88	110.35	476,512.87	598,148.67
10,139.00	89.40	89.40		9,288.96	1,358.15	-468.47	1,359.62	1,438.07	109.01	476,513.53	598,243.62
10,235.00	88.00	88.20		9,291.13	1,454.10	-466.46	1,455.57	1,528.49	107.77	476,515.54	598,339.57
10,330.00	86.80	87.80		9,295.44	1,548.95	-463.15	1,550.42	1,618.12	106.63	476,518.85	598,434.42
10,425.00	90.30	90.80		9,297.85	1,643.89	-461.99	1,645.35	1,708.98	105.68	476,520.01	598,529.35
10,520.00	88.90	91.00		9,298.51	1,738.87	-463.48	1,740.34	1,801.00	104.91	476,518.52	598,624.34
10,616.00	90.40	92.10		9,299.10	1,834.82	-466.08	1,836.30	1,894.52	104.24	476,515.92	598,720.30
10,711.00	87.70	92.10		9,300.67	1,929.73	-469.56	1,931.21	1,987.48	103.67	476,512.44	598,815.21
10,806.00	87.60	91.40		9,304.57	2,024.59	-472.46	2,026.09	2,080.44	103.13	476,509.54	598,910.09
10,902.00	88.30	91.30		9,308.00	2,120.49	-474.72	2,122.00	2,174.45	102.61	476,507.28	599,006.00
10,997.00	86.50	91.30		9,312.31	2,215.36	-476.87	2,216.87	2,267.58	102.14	476,505.13	599,100.87
11,093.00	83.40	91.30		9,320.76	2,310.95	-479.04	2,312.46	2,361.56	101.70	476,502.96	599,196.46
11,188.00	84.80	90.00		9,330.53	2,405.43	-480.11	2,406.95	2,454.36	101.28	476,501.89	599,290.95
11,282.00	88.50	89.70		9,336.02	2,499.25	-479.86	2,500.77	2,546.39	100.86	476,502.14	599,384.77
11,377.00	86.90	89.00		9,339.83	2,594.17	-478.79	2,595.68	2,639.47	100.45	476,503.21	599,479.68
11,472.00	91.40	89.60		9,341.24	2,689.13	-477.63	2,690.64	2,732.71	100.07	476,504.37	599,574.64
11,567.00	91.30	89.70		9,339.00	2,784.10	-477.05	2,785.61	2,826.17	99.72	476,504.95	599,669.61
11,662.00	90.10	89.50		9,337.84	2,879.09	-476.38	2,880.60	2,919.73	99.39	476,505.62	599,764.60
11,758.00	88.30	89.30		9,339.18	2,975.08	-475.38	2,976.58	3,014.31	99.07	476,506.62	599,860.58
11,853.00	91.30	89.50		9,339.51	3,070.06	-474.38	3,071.57	3,107.98	98.78	476,507.62	599,955.57
11,949.00	92.80	90.10		9,336.08	3,166.00	-474.05	3,167.50	3,202.78	98.51	476,507.95	600,051.50
12,044.00	91.10	90.00		9,332.85	3,260.94	-474.13	3,262.44	3,296.72	98.27	476,507.87	600,146.44



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Joe Coleman 13-23S-27E RB
Well: No. 201H
Wellbore: OH
Design: MWD-149'-14185', Proj. 14249'

Local Co-ordinate Reference: Well No. 201H
TVD Reference: Well @ 3131.50usft
MD Reference: Well @ 3131.50usft
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)
12,138.00	92.80	90.80	9,329.65	3,354.87	-474.79	3,356.38	3,389.80	98.05	476,507.21	600,240.38
12,235.00	90.50	91.20	9,326.85	3,451.81	-476.48	3,453.32	3,486.04	97.86	476,505.52	600,337.32
12,329.00	87.90	90.90	9,328.17	3,545.77	-478.20	3,547.29	3,579.38	97.68	476,503.80	600,431.29
12,425.00	88.70	91.20	9,331.01	3,641.70	-479.96	3,643.23	3,674.71	97.50	476,502.04	600,527.23
12,521.00	89.90	90.10	9,332.19	3,737.68	-481.05	3,739.21	3,770.03	97.33	476,500.95	600,623.21
12,616.00	89.50	89.80	9,332.68	3,832.68	-480.97	3,834.21	3,864.26	97.15	476,501.03	600,718.21
12,711.00	87.80	89.40	9,334.92	3,927.65	-480.30	3,929.18	3,958.43	96.97	476,501.70	600,813.18
12,807.00	88.00	90.00	9,338.44	4,023.58	-479.80	4,025.11	4,053.61	96.80	476,502.20	600,909.11
12,902.00	87.50	89.80	9,342.17	4,118.51	-479.64	4,120.04	4,147.86	96.64	476,502.36	601,004.04
12,998.00	86.70	89.40	9,347.03	4,214.39	-478.97	4,215.91	4,243.03	96.48	476,503.03	601,099.91
13,093.00	85.40	89.20	9,353.57	4,309.15	-477.81	4,310.68	4,337.08	96.33	476,504.19	601,194.68
13,188.00	88.00	88.50	9,359.04	4,403.97	-475.91	4,405.49	4,431.12	96.17	476,506.09	601,289.49
13,283.00	87.90	88.00	9,362.44	4,498.88	-473.01	4,500.39	4,525.17	96.00	476,508.99	601,384.39
13,379.00	89.00	88.50	9,365.03	4,594.80	-470.08	4,596.30	4,620.28	95.84	476,511.92	601,480.30
13,474.00	88.30	88.20	9,367.27	4,689.75	-467.34	4,691.24	4,714.46	95.69	476,514.66	601,575.24
13,569.00	87.50	88.50	9,370.75	4,784.65	-464.61	4,786.13	4,808.63	95.54	476,517.39	601,670.13
13,664.00	88.30	89.60	9,374.23	4,879.58	-463.03	4,881.05	4,902.97	95.42	476,518.97	601,765.05
13,759.00	86.90	88.60	9,378.21	4,974.48	-461.54	4,975.96	4,997.32	95.30	476,520.46	601,859.96
13,856.00	88.30	89.00	9,382.27	5,071.38	-459.51	5,072.85	5,093.62	95.18	476,522.49	601,956.85
13,951.00	88.20	89.30	9,385.18	5,166.33	-458.10	5,167.79	5,188.06	95.07	476,523.90	602,051.79
14,047.00	89.70	89.50	9,386.93	5,262.31	-457.10	5,263.77	5,283.58	94.96	476,524.90	602,147.77
14,144.00	87.70	89.90	9,389.14	5,359.28	-456.59	5,360.74	5,380.15	94.87	476,525.41	602,244.74
14,185.00	87.30	89.50	9,390.92	5,400.24	-456.38	5,401.70	5,420.94	94.83	476,525.62	602,285.70
Last Survey: 14185' MD										
14,249.00	87.30	89.50	9,393.94	5,464.16	-455.82	5,465.62	5,484.60	94.77	476,526.18	602,349.62
PTB: 14249' MD										



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
149.00	149.00	-0.20	-0.16	Pro MWD First Survey: 149' MD
14,185.00	9,390.92	-456.38	5,401.70	Last Survey: 14185' MD
14,249.00	9,393.94	-455.82	5,465.62	PTB: 14249' MD