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DISTRICT II-ARTESIA O.C.D.



Garrett Fed Com No. 222H

Eddy County, NM

November 27, 2018

Job No. LNM5184818

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

November 27, 2018



Operator Name: Matador Resources
Well Name: Garrett Fed Com No. 222H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5184818

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	701' MD – 15,646' MD	15,720' MD	09/18/18 – 10/29/18	MWD-OWSG

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

Garrett Fed Com

No. 222H

OH

Survey: ProDirectional

Survey Report

27 November, 2018





ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD 83)
Site: Garrett Fed Com
Well: No. 222H
Wellbore: OH
Design: Gyro-MWD-100'-15646', Proj: 15720'

Local Co-ordinate Reference: Well No. 222H
TVD Reference: Well @ 2950.50usft
MD Reference: Well @ 2950.50usft
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 Garrett Fed Com

Site Position:	Northing:	429,558.00 usft	Latitude:	32.180528
From: Map	Easting:	640,352.00 usft	Longitude:	-104.013291
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:	0.17 °

Well No. 222H

Well Position	+N/-S	0.00 usft	Northing:	427,497.00 usft	Latitude:	32.174862
	+E/-W	0.00 usft	Easting:	640,378.00 usft	Longitude:	-104.013227
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,922.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/22/2018	7.07	59.93	47,968.40

Design Gyro-MWD-100'-15646', Proj: 15720'

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	90.10



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Survey Program Date 11/27/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	555.00	Survey #1 (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro
701.00	15,720.00	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	427,497.00	640,378.00
100.00	0.75	235.73	100.00	-0.54	-0.37	-0.54	0.65	235.73	427,496.63	640,377.46
200.00	1.40	211.93	199.98	-1.72	-1.77	-1.73	2.48	224.25	427,495.23	640,376.27
300.00	0.90	250.58	299.96	-3.11	-3.07	-3.11	4.37	225.40	427,493.93	640,374.89
400.00	1.91	311.45	399.93	-5.10	-2.23	-5.10	5.57	246.40	427,494.77	640,372.90
500.00	1.91	320.27	499.88	-7.42	0.16	-7.42	7.42	271.20	427,497.16	640,370.58
555.00	2.07	320.14	554.84	-8.64	1.62	-8.64	8.79	280.63	427,498.62	640,369.36
701.00	2.30	327.30	700.74	-11.92	6.11	-11.91	13.39	297.16	427,503.11	640,366.09
Pro MWD First Survey: 701' MD										
792.00	3.50	322.50	791.62	-14.61	9.85	-14.59	17.61	304.03	427,506.85	640,363.41
882.00	5.50	316.10	881.34	-19.28	15.14	-19.26	24.49	308.18	427,512.14	640,358.74
972.00	6.10	315.40	970.88	-25.64	21.65	-25.60	33.53	310.22	427,518.65	640,352.40
1,062.00	5.80	320.10	1,060.39	-31.93	28.55	-31.88	42.79	311.84	427,525.55	640,346.12
1,153.00	6.10	323.00	1,150.90	-37.80	35.94	-37.74	52.11	313.60	427,532.94	640,340.26
1,245.00	5.50	322.20	1,242.43	-43.46	43.32	-43.38	61.31	314.96	427,540.32	640,334.62
1,335.00	5.20	326.00	1,332.04	-48.39	50.11	-48.31	69.60	316.05	427,547.11	640,329.69
1,430.00	7.30	319.70	1,426.47	-54.72	58.29	-54.62	79.88	316.86	427,555.29	640,323.38
1,525.00	8.80	321.30	1,520.53	-63.18	68.56	-63.07	93.15	317.39	427,565.56	640,314.93
1,621.00	8.80	327.00	1,615.40	-71.80	80.45	-71.66	107.73	318.31	427,577.45	640,306.34
1,716.00	8.60	317.90	1,709.32	-80.54	91.82	-80.38	122.03	318.80	427,588.82	640,297.62
1,811.00	9.00	320.90	1,803.20	-90.00	102.85	-89.82	136.55	318.87	427,599.85	640,288.18



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)
1,906.00	8.50	320.60	1,897.09	-99.17	114.04	-98.97	151.00	319.05	427,611.04	640,279.03
2,001.00	7.60	306.10	1,991.16	-108.72	123.17	-108.50	164.15	318.62	427,620.17	640,269.50
2,097.00	7.10	307.30	2,086.38	-118.58	130.51	-118.35	176.18	317.80	427,627.51	640,259.65
2,192.00	6.80	315.80	2,180.68	-127.18	138.10	-126.94	187.58	317.41	427,635.10	640,251.06
2,288.00	7.50	299.80	2,275.94	-136.59	145.29	-136.34	199.24	316.82	427,642.29	640,241.66
2,383.00	7.60	295.50	2,370.12	-147.66	151.07	-147.39	211.06	315.71	427,648.07	640,230.61
2,479.00	6.90	298.40	2,465.35	-158.47	156.55	-158.19	222.56	314.70	427,653.55	640,219.81
2,574.00	5.90	301.30	2,559.76	-167.67	161.80	-167.39	232.80	314.03	427,658.80	640,210.61
2,670.00	5.30	299.60	2,655.30	-175.75	166.55	-175.46	241.92	313.51	427,663.55	640,202.54
2,765.00	4.80	294.80	2,749.93	-183.18	170.39	-182.88	249.95	312.97	427,667.39	640,195.12
2,860.00	6.10	299.60	2,844.50	-191.18	174.55	-190.88	258.65	312.44	427,671.55	640,187.12
2,964.00	7.20	304.50	2,947.80	-201.37	180.97	-201.05	270.50	311.99	427,677.97	640,176.95
3,059.00	8.80	310.10	3,041.87	-211.85	189.02	-211.52	283.67	311.79	427,686.02	640,166.48
3,154.00	9.30	313.10	3,135.69	-223.03	198.95	-222.68	298.61	311.78	427,695.95	640,155.32
3,249.00	9.40	313.20	3,229.43	-234.31	209.50	-233.94	314.04	311.85	427,706.50	640,144.06
3,345.00	9.70	312.80	3,324.10	-245.98	220.37	-245.59	329.96	311.90	427,717.37	640,132.41
3,441.00	9.30	313.30	3,418.78	-257.58	231.18	-257.17	345.81	311.95	427,728.18	640,120.83
3,536.00	9.50	312.90	3,512.51	-268.92	241.78	-268.50	361.32	312.00	427,738.78	640,109.50
3,631.00	9.60	311.00	3,606.19	-280.66	252.32	-280.22	377.08	312.00	427,749.32	640,097.78
3,726.00	9.40	309.00	3,699.89	-292.69	262.39	-292.23	392.75	311.92	427,759.39	640,085.77
3,821.00	9.10	307.50	3,793.65	-304.69	271.85	-304.22	407.99	311.78	427,768.85	640,073.78
3,916.00	9.40	314.10	3,887.42	-316.24	281.82	-315.75	423.23	311.75	427,778.82	640,062.25
4,011.00	9.80	317.70	3,981.09	-327.28	293.20	-326.76	439.02	311.90	427,790.20	640,051.24
4,105.00	10.00	317.80	4,073.69	-338.16	305.16	-337.63	455.10	312.11	427,802.16	640,040.37
4,200.00	9.40	317.10	4,167.33	-349.00	316.96	-348.45	471.04	312.29	427,813.96	640,029.55
4,296.00	9.00	316.00	4,262.10	-359.58	328.10	-359.00	486.35	312.42	427,825.10	640,019.00
4,391.00	9.00	315.70	4,355.93	-369.95	338.77	-369.36	501.18	312.53	427,835.77	640,008.64



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4,485.00	7.90	312.40	4,448.91	-379.87	348.38	-379.26	514.99	312.57	427,845.38	639,998.74	
4,581.00	7.60	311.60	4,544.03	-389.50	357.05	-388.88	527.93	312.56	427,854.05	639,989.12	
4,676.00	7.90	312.10	4,638.16	-399.06	365.60	-398.42	540.74	312.54	427,862.60	639,979.58	
4,772.00	8.30	311.20	4,733.20	-409.18	374.58	-408.53	554.27	312.52	427,871.58	639,969.47	
4,867.00	8.50	311.80	4,827.18	-419.59	383.78	-418.92	568.14	312.49	427,880.78	639,959.08	
4,963.00	8.50	311.50	4,922.13	-430.21	393.21	-429.53	582.33	312.47	427,890.21	639,948.47	
5,058.00	7.50	307.60	5,016.20	-440.40	401.64	-439.70	595.53	312.41	427,898.64	639,938.30	
5,154.00	7.50	307.10	5,111.38	-450.37	409.25	-449.66	608.01	312.31	427,906.25	639,928.34	
5,249.00	7.20	306.10	5,205.60	-460.14	416.49	-459.41	620.10	312.19	427,913.49	639,918.59	
5,345.00	6.80	305.10	5,300.89	-469.66	423.31	-468.93	631.73	312.07	427,920.31	639,909.07	
5,440.00	6.20	300.90	5,395.28	-478.68	429.17	-477.93	642.34	311.92	427,926.17	639,900.07	
5,535.00	6.20	299.20	5,489.72	-487.57	434.31	-486.81	652.39	311.74	427,931.31	639,891.19	
5,630.00	5.60	295.90	5,584.22	-496.22	438.84	-495.46	661.86	311.53	427,935.84	639,882.54	
5,726.00	5.40	294.90	5,679.78	-504.54	442.79	-503.77	670.70	311.31	427,939.79	639,874.23	
5,820.00	5.10	291.80	5,773.38	-512.44	446.20	-511.66	678.89	311.09	427,943.20	639,866.34	
5,915.00	5.10	291.90	5,868.00	-520.28	449.34	-519.50	686.87	310.86	427,946.34	639,858.50	
6,010.00	4.90	290.40	5,962.64	-528.01	452.33	-527.22	694.67	310.63	427,949.33	639,850.78	
6,105.00	4.80	287.60	6,057.30	-535.60	454.95	-534.81	702.14	310.39	427,951.95	639,843.19	
6,200.00	4.40	284.40	6,152.00	-542.92	457.06	-542.13	709.09	310.13	427,954.06	639,835.87	
6,295.00	2.80	286.00	6,246.81	-548.69	458.60	-547.89	714.49	309.93	427,955.60	639,830.11	
6,390.00	2.10	289.40	6,341.72	-552.56	459.82	-551.76	718.24	309.81	427,956.82	639,826.24	
6,485.00	2.10	286.00	6,436.66	-555.88	460.88	-555.08	721.47	309.70	427,957.88	639,822.92	
6,580.00	1.40	342.40	6,531.62	-557.91	462.47	-557.10	724.04	309.70	427,959.47	639,820.90	
6,675.00	2.20	26.10	6,626.57	-557.46	465.21	-556.65	725.45	309.89	427,962.21	639,821.35	
6,771.00	2.40	21.80	6,722.50	-555.91	468.73	-555.09	726.52	310.18	427,965.73	639,822.91	
6,866.00	2.30	13.70	6,817.42	-554.72	472.43	-553.90	728.01	310.46	427,969.43	639,824.10	
6,962.00	2.30	24.50	6,913.34	-553.48	476.05	-552.65	729.41	310.74	427,973.05	639,825.35	



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7,057.00	2.20	39.40	7,008.27	-551.53	479.20	-550.70	730.00	311.03	427,976.20	639,827.30	
7,153.00	2.10	63.90	7,104.20	-548.79	481.39	-547.95	729.38	311.30	427,978.39	639,830.05	
7,248.00	2.60	96.20	7,199.13	-545.08	481.93	-544.24	726.95	311.52	427,978.93	639,833.76	
7,344.00	2.80	114.40	7,295.02	-540.78	480.72	-539.94	722.93	311.68	427,977.72	639,838.06	
7,439.00	2.90	135.90	7,389.91	-536.99	478.04	-536.16	718.32	311.72	427,975.04	639,841.84	
7,535.00	1.20	161.20	7,485.84	-534.97	475.34	-534.14	715.03	311.67	427,972.34	639,843.86	
7,630.00	1.10	203.60	7,580.82	-535.01	473.57	-534.19	713.88	311.56	427,970.57	639,843.81	
7,724.00	1.40	231.30	7,674.80	-536.27	472.02	-535.45	713.80	311.40	427,969.02	639,842.55	
7,820.00	0.80	275.60	7,770.79	-537.85	471.35	-537.03	714.54	311.27	427,968.35	639,840.97	
7,914.00	1.60	291.10	7,864.77	-539.73	471.89	-538.91	716.31	311.21	427,968.89	639,839.09	
8,010.00	2.70	256.20	7,960.70	-543.17	471.83	-542.35	718.87	311.02	427,968.83	639,835.65	
8,105.00	2.10	216.80	8,055.62	-546.39	469.91	-545.57	720.04	310.74	427,966.91	639,832.43	
8,200.00	0.70	90.00	8,150.60	-546.85	468.51	-546.03	719.48	310.63	427,965.51	639,831.97	
8,295.00	1.80	98.00	8,245.58	-544.79	468.30	-543.97	717.78	310.73	427,965.30	639,834.03	
8,390.00	1.60	126.80	8,340.54	-542.25	467.30	-541.43	715.21	310.80	427,964.30	639,836.57	
8,485.00	1.90	135.90	8,435.49	-540.09	465.38	-539.27	712.31	310.79	427,962.38	639,838.73	
8,581.00	1.60	113.50	8,531.45	-537.75	463.70	-536.94	709.45	310.81	427,960.70	639,841.06	
8,675.00	0.70	74.50	8,625.43	-535.99	463.33	-535.18	707.88	310.88	427,960.33	639,842.82	
8,770.00	1.10	338.50	8,720.42	-535.77	464.33	-534.96	708.37	310.96	427,961.33	639,843.04	
8,866.00	0.60	307.40	8,816.41	-536.50	465.50	-535.69	709.69	310.99	427,962.50	639,842.31	
8,961.00	1.40	153.10	8,911.41	-536.37	464.76	-535.56	709.11	310.95	427,961.76	639,842.44	
9,056.00	1.20	143.80	9,006.38	-535.26	462.93	-534.45	707.06	310.90	427,959.93	639,843.55	
9,151.00	0.90	106.00	9,101.37	-533.95	461.92	-533.15	705.42	310.91	427,958.92	639,844.85	
9,247.00	0.30	83.60	9,197.36	-532.98	461.74	-532.17	704.56	310.95	427,958.74	639,845.83	
9,342.00	0.20	96.60	9,292.36	-532.56	461.75	-531.76	704.26	310.97	427,958.75	639,846.24	
9,437.00	0.30	165.40	9,387.36	-532.34	461.49	-531.53	703.91	310.97	427,958.49	639,846.47	
9,533.00	0.70	164.10	9,483.36	-532.11	460.68	-531.31	703.22	310.93	427,957.68	639,846.69	



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9,628.00	0.90	171.40	9,578.35	-531.84	459.38	-531.04	702.16	310.86	427,956.38	639,846.96	
9,724.00	1.00	163.20	9,674.33	-531.48	457.84	-530.68	700.88	310.79	427,954.84	639,847.32	
9,819.00	1.00	150.30	9,769.32	-530.83	456.32	-530.03	699.40	310.73	427,953.32	639,847.97	
9,915.00	1.00	144.80	9,865.30	-529.93	454.91	-529.13	697.80	310.69	427,951.91	639,848.87	
10,010.00	0.50	164.10	9,960.30	-529.33	453.83	-528.54	696.65	310.65	427,950.83	639,849.46	
10,105.00	0.80	232.90	10,055.29	-529.75	453.03	-528.96	696.45	310.58	427,950.03	639,849.04	
10,200.00	1.20	251.90	10,150.28	-531.22	452.33	-530.43	697.11	310.46	427,949.33	639,847.57	
10,232.00	1.20	253.30	10,182.27	-531.86	452.13	-531.07	697.46	310.41	427,949.13	639,846.93	
10,308.00	1.40	247.80	10,258.25	-533.48	451.55	-532.69	698.32	310.29	427,948.55	639,845.31	
10,403.00	1.30	40.40	10,353.24	-533.86	451.93	-533.07	698.86	310.29	427,948.93	639,844.93	
10,498.00	12.30	77.00	10,447.44	-523.27	455.03	-522.48	692.85	311.05	427,952.03	639,855.52	
10,593.00	19.40	83.20	10,538.78	-497.72	459.18	-496.92	676.59	312.74	427,956.18	639,881.08	
10,688.00	28.60	82.80	10,625.47	-459.42	463.91	-458.61	652.33	315.33	427,960.91	639,919.39	
10,784.00	40.20	77.90	10,704.56	-406.15	473.32	-405.33	623.16	319.42	427,970.32	639,972.67	
10,879.00	52.20	80.40	10,770.20	-338.94	486.05	-338.09	592.08	325.18	427,983.05	640,039.91	
10,975.00	62.90	82.80	10,821.64	-258.93	497.77	-258.06	560.69	332.60	427,994.77	640,119.94	
11,110.00	68.90	82.90	10,876.74	-136.74	513.10	-135.84	530.78	345.17	428,010.10	640,242.16	
11,205.00	76.00	81.90	10,905.37	-47.04	525.09	-46.12	527.11	354.98	428,022.09	640,331.88	
11,301.00	77.00	81.40	10,927.78	45.30	538.64	46.24	540.62	4.91	428,035.64	640,424.24	
11,396.00	77.10	82.30	10,949.07	136.92	551.77	137.88	568.74	14.03	428,048.77	640,515.88	
11,491.00	83.40	82.40	10,965.15	229.65	564.22	230.63	609.54	22.23	428,061.22	640,608.63	
11,586.00	86.80	81.90	10,973.26	323.38	577.15	324.38	662.06	29.34	428,074.15	640,702.38	
11,681.00	87.70	83.10	10,977.82	417.43	589.54	418.46	722.95	35.37	428,086.54	640,796.46	
11,775.00	89.60	85.70	10,980.04	510.93	598.70	511.97	787.76	40.53	428,095.70	640,889.97	
11,871.00	90.00	84.70	10,980.37	606.57	606.74	607.63	858.69	45.04	428,103.74	640,985.63	
11,965.00	88.00	88.70	10,982.01	700.37	612.15	701.44	930.99	48.89	428,109.15	641,079.44	
12,060.00	89.00	89.30	10,984.50	795.32	613.80	796.39	1,005.48	52.38	428,110.80	641,174.39	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD 83)
Site: Garrett Fed Com
Well: No. 222H
Wellbore: OH
Design: Gyro-MWD-100'-15646', Proj. 15720'

Local Co-ordinate Reference: Well No. 222H
TVD Reference: Well @ 2950.50usft
MD Reference: Well @ 2950.50usft
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)	
12,156.00	88.70	85.60	10,986.43	891.18	618.07	892.26	1,085.42	55.29	428,115.07	641,270.26	
12,251.00	90.80	84.40	10,986.84	985.80	626.35	986.89	1,168.88	57.60	428,123.35	641,364.89	
12,347.00	90.80	86.00	10,985.50	1,081.43	634.39	1,082.54	1,254.73	59.63	428,131.39	641,460.54	
12,442.00	90.40	89.70	10,984.51	1,176.34	637.95	1,177.45	1,339.17	61.55	428,134.95	641,555.45	
12,537.00	84.90	89.10	10,988.40	1,271.21	638.94	1,272.33	1,423.75	63.34	428,135.94	641,650.33	
12,632.00	88.20	87.70	10,994.12	1,365.98	641.59	1,367.11	1,510.17	64.86	428,138.59	641,745.11	
12,728.00	90.10	88.90	10,995.54	1,461.92	644.44	1,463.05	1,598.69	66.23	428,141.44	641,841.05	
12,823.00	87.00	90.60	10,997.95	1,556.87	644.85	1,558.00	1,686.18	67.52	428,141.85	641,936.00	
12,917.00	88.30	90.80	11,001.80	1,650.79	643.71	1,651.91	1,772.90	68.71	428,140.71	642,029.91	
13,013.00	88.40	92.90	11,004.56	1,746.70	640.61	1,747.82	1,861.52	69.87	428,137.61	642,125.82	
13,108.00	91.70	96.60	11,004.48	1,841.35	632.74	1,842.46	1,948.08	71.05	428,129.74	642,220.46	
13,204.00	89.00	96.80	11,003.89	1,936.71	621.54	1,937.80	2,035.04	72.22	428,118.54	642,315.80	
13,299.00	90.00	99.40	11,004.72	2,030.77	608.16	2,031.83	2,120.90	73.34	428,105.16	642,409.83	
13,394.00	85.00	97.60	11,008.87	2,124.63	594.13	2,125.67	2,207.14	74.38	428,091.13	642,503.67	
13,490.00	83.50	97.30	11,018.48	2,219.36	581.75	2,220.38	2,295.32	75.32	428,078.75	642,598.38	
13,586.00	87.30	94.40	11,026.18	2,314.54	572.01	2,315.54	2,385.15	76.12	428,069.01	642,693.54	
13,681.00	87.50	88.80	11,030.50	2,409.37	569.36	2,410.37	2,476.70	76.71	428,066.36	642,788.37	
13,776.00	90.90	91.40	11,031.82	2,504.34	569.19	2,505.34	2,569.18	77.20	428,066.19	642,883.34	
13,871.00	90.40	92.10	11,030.75	2,599.29	566.29	2,600.29	2,661.23	77.71	428,063.29	642,978.29	
13,967.00	89.60	90.30	11,030.75	2,695.27	564.28	2,696.26	2,754.67	78.18	428,061.28	643,074.26	
14,064.00	88.70	92.10	11,032.18	2,792.24	562.25	2,793.22	2,849.25	78.62	428,059.25	643,171.22	
14,158.00	90.20	89.50	11,033.09	2,886.21	560.94	2,887.20	2,941.18	79.01	428,057.94	643,265.20	
14,252.00	90.60	83.10	11,032.43	2,979.96	567.00	2,980.95	3,034.40	79.23	428,064.00	643,358.95	
14,347.00	88.40	84.40	11,033.26	3,074.36	577.34	3,075.38	3,129.10	79.37	428,074.34	643,453.38	
14,442.00	87.50	87.80	11,036.66	3,169.06	583.80	3,170.08	3,223.39	79.57	428,080.80	643,548.08	
14,538.00	89.10	88.90	11,039.51	3,264.96	586.56	3,265.99	3,318.25	79.82	428,083.56	643,643.99	
14,634.00	88.80	91.00	11,041.27	3,360.94	586.64	3,361.97	3,412.77	80.10	428,083.64	643,739.97	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM (NAD 83)
Site: Garrett Fed Com
Well: No. 222H
Wellbore: OH
Design: Gyro-MWD-100'-15646', Proj. 15720'

Local Co-ordinate Reference: Well No. 222H
TVD Reference: Well @ 2950.50usft
MD Reference: Well @ 2950.50usft
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)	
14,729.00	90.00	88.10	11,042.26	3,455.92	587.39	3,456.95	3,506.50	80.36	428,084.39	643,834.95	
14,824.00	91.90	81.40	11,040.68	3,550.44	596.07	3,551.48	3,601.16	80.47	428,093.07	643,929.48	
14,920.00	88.30	85.90	11,040.52	3,645.79	606.69	3,646.85	3,696.97	80.55	428,103.69	644,024.85	
15,015.00	91.10	94.60	11,041.01	3,740.69	606.27	3,741.75	3,790.55	80.80	428,103.27	644,119.75	
15,111.00	92.60	98.20	11,037.91	3,836.04	595.58	3,837.08	3,883.03	81.18	428,092.58	644,215.08	
15,205.00	84.70	92.80	11,040.13	3,929.49	586.58	3,930.51	3,974.04	81.51	428,083.58	644,308.51	
15,302.00	84.60	93.30	11,049.17	4,025.93	581.44	4,026.96	4,068.71	81.78	428,078.44	644,404.96	
15,397.00	86.80	91.60	11,056.30	4,120.58	577.39	4,121.59	4,161.84	82.03	428,074.39	644,499.59	
15,492.00	87.40	87.50	11,061.10	4,215.43	578.14	4,216.45	4,255.90	82.19	428,075.14	644,594.45	
15,587.00	88.40	87.70	11,064.59	4,310.28	582.11	4,311.30	4,350.42	82.31	428,079.11	644,689.30	
15,646.00	89.10	85.40	11,065.87	4,369.14	585.66	4,370.17	4,409.24	82.37	428,082.66	644,748.17	
Last Survey: 15646' MD											
15,720.00	89.10	85.40	11,067.04	4,442.89	591.60	4,443.93	4,483.13	82.42	428,088.60	644,821.93	
PTB: 15720' MD											

Design Annotations:				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
701.00	700.74	6.11	-11.91	Pro MWD First Survey: 701' MD
15,646.00	11,065.87	585.66	4,370.17	Last Survey: 15646' MD
15,720.00	11,067.04	591.60	4,443.93	PTB: 15720' MD