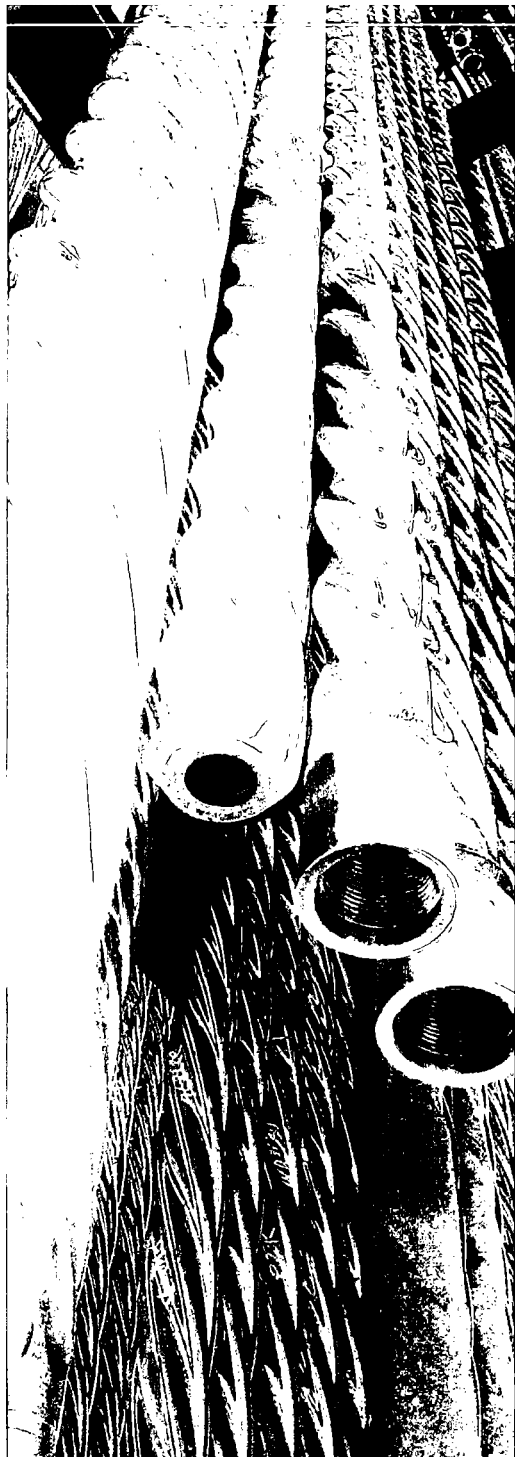




NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 14 2018

RECEIVED

Marbob State No. 123H

Eddy County, NM

May 22, 2018

Job No. LNM5170018

30-015-44687

ORIGINAL

Survey Completion Report



PRODIRECTIONAL

Survey Certificate

May 22, 2018



Operator Name: Matador Resources
Well Name: Marbob State No. 123H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5170018

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	199' MD – 12,280' MD	12,345' MD	03/26/18 – 04/24/18	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

Marbob State

No. 123H

OH

Survey: ProDirectional

Survey Report

22 May, 2018





ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Marbob State
Well: No. 123H
Wellbore: OH
Design: MWD-199'-12280', Proj. 12345'

Local Co-ordinate Reference: Well No. 123H
TVD Reference: Well @ 3388.50usft
MD Reference: Well @ 3388.50usft
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 Marbob State

Site Position:	Northing:	597,912.00 usft	Latitude:	32.643529
From: Map	Easting:	606,710.00 usft	Longitude:	-104.120950
Position Uncertainty:	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well No. 123H

Well Position	+N/-S	0.00 usft	Northing:	597,882.00 usft	Latitude:	32.643446
	+E/-W	0.00 usft	Easting:	606,710.00 usft	Longitude:	-104.120950
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,360.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	3/23/2018	7.37	60.45	48,102.60

Design MWD-199'-12280', Proj. 12345'

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	90.33	

Survey Program Date 5/22/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
199.00	12,345.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	597,882.00	606,710.00	
199.00	0.20	225.50	199.00	-0.25	-0.24	-0.25	0.35	225.50	597,881.76	606,709.75	
Pro MWD First Survey: 199' MD											
290.00	0.80	169.10	290.00	-0.24	-0.98	-0.24	1.01	193.83	597,881.02	606,709.76	
320.00	1.00	161.80	319.99	-0.11	-1.43	-0.12	1.44	184.77	597,880.57	606,709.88	
409.00	1.10	153.00	408.98	0.53	-2.93	0.51	2.98	170.12	597,879.07	606,710.51	
507.00	1.20	164.90	506.96	1.23	-4.76	1.21	4.91	165.79	597,877.24	606,711.21	
689.00	1.50	124.20	688.91	3.72	-7.94	3.67	8.75	155.18	597,874.06	606,713.67	
780.00	1.50	125.60	779.88	5.68	-9.30	5.63	10.87	148.84	597,872.70	606,715.63	
872.00	1.40	119.80	871.85	7.64	-10.56	7.58	13.00	144.33	597,871.44	606,717.58	
966.00	1.60	113.70	965.82	9.84	-11.66	9.78	15.22	140.02	597,870.34	606,719.78	
1,059.00	0.50	262.50	1,058.81	10.63	-12.24	10.56	16.17	139.19	597,869.76	606,720.56	
1,153.00	2.80	292.40	1,152.76	8.10	-11.41	8.03	13.96	144.86	597,870.59	606,718.03	
1,246.00	4.30	293.00	1,245.58	2.78	-9.19	2.73	9.58	163.48	597,872.81	606,712.73	
1,339.00	4.10	298.10	1,338.33	-3.38	-6.26	-3.42	7.13	208.64	597,875.74	606,706.58	
1,433.00	3.90	297.10	1,432.10	-9.21	-3.22	-9.23	9.77	250.77	597,878.78	606,700.77	
1,526.00	4.00	304.30	1,524.88	-14.72	0.05	-14.72	14.72	270.20	597,882.05	606,695.28	
1,620.00	5.10	310.00	1,618.59	-20.66	4.58	-20.63	21.13	282.53	597,886.58	606,689.37	
1,714.00	6.00	313.90	1,712.15	-27.43	10.68	-27.37	29.38	291.31	597,892.68	606,682.63	
1,807.00	5.70	317.50	1,804.66	-34.09	17.45	-33.99	38.21	297.17	597,899.45	606,676.01	
1,901.00	6.10	315.90	1,898.16	-40.76	24.48	-40.62	47.43	301.07	597,906.48	606,669.38	
1,994.00	6.00	318.70	1,990.65	-47.45	31.68	-47.27	56.90	303.83	597,913.68	606,662.73	
2,088.00	6.20	314.40	2,084.11	-54.36	38.92	-54.14	66.68	305.71	597,920.92	606,655.86	
2,181.00	5.80	327.90	2,176.61	-60.49	46.42	-60.23	76.04	307.62	597,928.42	606,649.77	
2,275.00	6.00	337.40	2,270.11	-64.95	54.98	-64.64	84.85	310.38	597,936.98	606,645.36	
2,369.00	6.00	338.30	2,363.60	-68.71	64.08	-68.34	93.68	313.16	597,946.08	606,641.66	
2,462.00	6.10	334.80	2,456.08	-72.66	73.06	-72.24	102.75	315.32	597,955.06	606,637.76	



ProDirectional Survey Report



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Wellbore: OH
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TVD Reference: Well @ 3388.50usft
MD Reference: Well @ 3388.50usft
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)
2,647.00	5.70	341.50	2,640.10	-79.86	90.67	-79.34	120.48	318.81	597,972.67	606,630.66
2,740.00	5.50	340.30	2,732.66	-82.88	99.25	-82.31	128.94	320.33	597,981.25	606,627.69
2,833.00	5.10	343.10	2,825.26	-85.63	107.40	-85.02	136.97	321.63	597,989.40	606,624.98
2,926.00	4.80	343.60	2,917.91	-87.98	115.08	-87.32	144.46	322.81	597,997.08	606,622.68
3,019.00	5.60	326.40	3,010.54	-91.63	122.60	-90.93	152.64	323.44	598,004.60	606,619.07
3,113.00	6.60	319.40	3,104.00	-97.73	130.52	-96.98	162.60	323.39	598,012.52	606,613.02
3,206.00	6.30	321.50	3,196.42	-104.43	138.57	-103.63	173.04	323.21	598,020.57	606,606.37
3,299.00	5.80	322.10	3,288.90	-110.54	146.27	-109.70	182.84	323.13	598,028.27	606,600.30
3,393.00	5.10	322.10	3,382.47	-116.06	153.32	-115.18	191.76	323.08	598,035.32	606,594.82
3,487.00	4.90	320.70	3,476.11	-121.21	159.72	-120.29	199.95	323.02	598,041.72	606,589.71
3,580.00	4.70	320.80	3,568.79	-126.17	165.75	-125.21	207.73	322.93	598,047.75	606,584.79
3,674.00	6.20	314.20	3,662.36	-132.28	172.27	-131.29	216.60	322.69	598,054.27	606,578.71
3,767.00	7.30	312.10	3,754.71	-140.30	179.73	-139.27	227.38	322.23	598,061.73	606,570.73
3,861.00	7.20	310.30	3,847.96	-149.27	187.55	-148.20	239.03	321.68	598,069.55	606,561.80
3,954.00	7.30	306.60	3,940.22	-158.50	194.84	-157.38	250.46	321.07	598,076.84	606,552.62
4,048.00	6.80	307.00	4,033.51	-167.78	201.75	-166.62	261.66	320.45	598,083.75	606,543.38
4,141.00	5.90	305.80	4,125.94	-176.09	207.86	-174.90	271.65	319.92	598,089.86	606,535.10
4,235.00	5.60	302.30	4,219.47	-183.92	213.14	-182.69	280.72	319.40	598,095.14	606,527.31
4,328.00	5.60	301.80	4,312.02	-191.64	217.95	-190.38	289.39	318.86	598,099.95	606,519.62
4,422.00	5.60	302.40	4,405.57	-199.43	222.83	-198.15	298.19	318.35	598,104.83	606,511.85
4,515.00	5.50	324.10	4,498.15	-205.91	228.87	-204.60	306.99	318.20	598,110.87	606,505.40
4,609.00	5.60	325.30	4,591.71	-211.21	236.29	-209.85	316.02	318.39	598,118.29	606,500.15
4,702.00	5.50	322.50	4,684.27	-216.55	243.55	-215.15	324.97	318.54	598,125.55	606,494.85
4,796.00	5.70	343.90	4,777.83	-220.63	251.61	-219.19	333.69	318.94	598,133.61	606,490.81
4,889.00	3.60	341.00	4,870.52	-222.90	258.81	-221.42	340.60	319.45	598,140.81	606,488.58
4,983.00	3.60	342.90	4,964.34	-224.77	264.42	-223.25	346.06	319.83	598,146.42	606,486.75
5,076.00	3.80	339.10	5,057.14	-226.76	270.09	-225.20	351.66	320.18	598,152.09	606,484.80



ProDirectional Survey Report



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Wellbore: OH
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Local Co-ordinate Reference: Well No. 123H
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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)
5,170.00	3.70	331.70		5,150.94	-229.34	275.67	-227.75	357.59	320.44	598,157.67	606,482.25
5,266.00	3.30	327.90		5,246.76	-232.30	280.74	-230.69	363.36	320.59	598,162.74	606,479.31
5,360.00	3.30	329.00		5,340.61	-235.16	285.35	-233.52	368.73	320.70	598,167.35	606,476.48
5,453.00	3.10	330.60		5,433.46	-237.80	289.84	-236.13	373.85	320.83	598,171.84	606,473.87
5,547.00	3.00	327.80		5,527.33	-240.38	294.13	-238.69	378.80	320.94	598,176.13	606,471.31
5,640.00	2.90	328.30		5,620.20	-242.94	298.19	-241.23	383.55	321.03	598,180.19	606,468.77
5,734.00	3.00	325.10		5,714.08	-245.62	302.24	-243.88	388.36	321.10	598,184.24	606,466.12
5,826.00	3.10	322.50		5,805.95	-248.53	306.18	-246.77	393.25	321.13	598,188.18	606,463.23
5,920.00	3.10	315.90		5,899.81	-251.87	310.02	-250.09	398.32	321.11	598,192.02	606,459.91
6,013.00	2.70	310.10		5,992.69	-255.32	313.24	-253.52	402.98	321.02	598,195.24	606,456.48
6,107.00	3.10	340.20		6,086.58	-257.89	317.06	-256.07	407.55	321.07	598,199.06	606,453.93
6,201.00	2.80	331.90		6,180.45	-259.86	321.48	-258.01	412.21	321.25	598,203.48	606,451.99
6,294.00	2.40	327.50		6,273.36	-262.00	325.12	-260.13	416.38	321.34	598,207.12	606,449.87
6,387.00	1.50	311.80		6,366.30	-263.97	327.58	-262.08	419.52	321.34	598,209.58	606,447.92
6,480.00	2.50	1.00		6,459.25	-264.85	330.42	-262.95	422.28	321.49	598,212.42	606,447.05
6,573.00	1.80	15.20		6,552.19	-264.46	333.85	-262.54	424.72	321.82	598,215.85	606,447.46
6,667.00	1.00	16.30		6,646.16	-263.85	336.07	-261.92	426.08	322.07	598,218.07	606,448.08
6,760.00	0.40	317.10		6,739.15	-263.85	337.08	-261.91	426.88	322.15	598,219.08	606,448.09
6,839.00	0.90	297.20		6,818.15	-264.59	337.57	-262.65	427.71	322.11	598,219.57	606,447.35
6,932.00	1.00	283.90		6,911.13	-266.03	338.10	-264.09	429.01	322.01	598,220.10	606,445.91
7,026.00	0.80	275.20		7,005.12	-267.48	338.35	-265.54	430.11	321.88	598,220.35	606,444.46
7,119.00	1.00	245.10		7,098.11	-268.86	338.07	-266.92	430.74	321.71	598,220.07	606,443.08
7,212.00	1.10	244.90		7,191.10	-270.40	337.35	-268.47	431.14	321.49	598,219.35	606,441.53
7,259.00	2.10	77.30		7,238.09	-269.97	337.35	-268.03	430.87	321.53	598,219.35	606,441.97
7,306.00	10.00	72.00		7,284.79	-265.25	338.80	-263.31	429.09	322.15	598,220.80	606,446.69
7,400.00	17.90	62.70		7,375.95	-244.67	347.96	-242.67	424.23	325.11	598,229.96	606,467.33
7,493.00	26.30	66.60		7,462.05	-213.09	362.73	-211.01	419.64	329.81	598,244.73	606,498.99



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7,587.00	33.80	67.30	7,543.36	-169.90	381.11	-167.71	416.38	336.25	598,263.11	606,542.29	
7,680.00	46.60	72.20	7,614.26	-113.74	401.52	-111.43	416.69	344.49	598,283.52	606,598.57	
7,774.00	57.00	79.20	7,672.36	-42.36	419.40	-39.95	421.30	354.56	598,301.40	606,670.05	
7,891.00	75.60	84.10	7,719.20	63.09	434.56	65.59	439.48	8.58	598,316.56	606,775.59	
7,985.00	81.00	87.30	7,738.26	154.79	441.44	157.33	468.64	19.62	598,323.44	606,867.33	
8,078.00	84.40	90.00	7,750.08	246.97	443.60	249.53	508.97	29.36	598,325.60	606,959.53	
8,171.00	85.20	90.40	7,758.51	339.59	443.28	342.15	559.96	37.66	598,325.28	607,052.15	
8,265.00	85.30	91.20	7,766.29	433.26	441.97	435.82	620.70	44.60	598,323.97	607,145.82	
8,358.00	85.40	91.30	7,773.83	525.94	439.95	528.49	687.64	50.22	598,321.95	607,238.49	
8,452.00	85.80	91.50	7,781.04	619.65	437.66	622.18	760.69	54.88	598,319.66	607,332.18	
8,545.00	85.60	91.70	7,788.01	712.37	435.07	714.88	836.86	58.68	598,317.07	607,424.88	
8,639.00	86.20	90.90	7,794.74	806.11	432.94	808.62	917.22	61.84	598,314.94	607,518.62	
8,733.00	86.80	90.80	7,800.47	899.93	431.55	902.43	1,000.31	64.44	598,313.55	607,612.43	
8,826.00	87.80	90.70	7,804.86	992.82	430.33	995.32	1,084.36	66.62	598,312.33	607,705.32	
8,919.00	88.40	90.40	7,807.94	1,085.77	429.44	1,088.26	1,169.93	68.47	598,311.44	607,798.26	
9,013.00	88.40	90.70	7,810.56	1,179.73	428.54	1,182.22	1,257.50	70.08	598,310.54	607,892.22	
9,106.00	88.70	91.10	7,812.92	1,272.70	427.08	1,275.18	1,344.80	71.48	598,309.08	607,985.18	
9,200.00	89.20	90.90	7,814.64	1,366.68	425.44	1,369.15	1,433.73	72.74	598,307.44	608,079.15	
9,293.00	89.50	91.10	7,815.69	1,459.66	423.81	1,462.13	1,522.31	73.84	598,305.81	608,172.13	
9,387.00	88.80	90.00	7,817.09	1,553.65	422.91	1,556.11	1,612.56	74.80	598,304.91	608,266.11	
9,480.00	89.00	89.20	7,818.87	1,646.63	423.56	1,649.09	1,702.62	75.60	598,305.56	608,359.09	
9,574.00	89.40	89.20	7,820.19	1,740.60	424.87	1,743.07	1,794.11	76.30	598,306.87	608,453.07	
9,667.00	90.10	89.90	7,820.59	1,833.59	425.60	1,836.07	1,884.75	76.95	598,307.60	608,546.07	
9,760.00	89.10	91.10	7,821.24	1,926.58	424.79	1,929.06	1,975.28	77.58	598,306.79	608,639.06	
9,853.00	88.00	91.50	7,823.59	2,019.54	422.68	2,022.01	2,065.71	78.19	598,304.68	608,732.01	
9,946.00	85.30	91.20	7,829.03	2,112.36	420.50	2,114.81	2,156.21	78.75	598,302.50	608,824.81	
10,040.00	87.60	91.70	7,834.85	2,206.15	418.12	2,208.60	2,247.83	79.28	598,300.12	608,918.60	



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Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

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)
10,134.00	87.90	91.30	7,838.54	2,300.06	415.66	2,302.49	2,339.71	79.77	598,297.66	609,012.49
10,227.00	84.40	90.70	7,844.78	2,392.83	414.04	2,395.25	2,430.77	80.19	598,296.04	609,105.25
10,320.00	83.20	91.20	7,854.83	2,485.28	412.51	2,487.69	2,521.66	80.58	598,294.51	609,197.69
10,414.00	83.90	90.80	7,865.39	2,578.67	410.88	2,581.08	2,613.58	80.96	598,292.88	609,291.08
10,506.00	86.20	89.60	7,873.32	2,670.32	410.56	2,672.73	2,704.08	81.27	598,292.56	609,382.73
10,600.00	87.30	88.80	7,878.65	2,764.15	411.87	2,766.57	2,797.06	81.53	598,293.87	609,476.57
10,693.00	88.30	88.00	7,882.22	2,857.03	414.47	2,859.46	2,889.34	81.75	598,296.47	609,569.46
10,787.00	88.90	87.90	7,884.52	2,950.92	417.83	2,953.37	2,982.78	81.95	598,299.83	609,663.37
10,880.00	89.50	87.30	7,885.82	3,043.80	421.72	3,046.28	3,075.33	82.12	598,303.72	609,756.28
10,973.00	90.80	87.40	7,885.58	3,136.67	426.02	3,139.18	3,167.96	82.27	598,308.02	609,849.18
11,067.00	92.10	87.60	7,883.20	3,230.53	430.12	3,233.06	3,261.54	82.42	598,312.12	609,943.06
11,161.00	93.40	87.90	7,878.69	3,324.32	433.81	3,326.88	3,355.04	82.57	598,315.81	610,036.88
11,254.00	94.30	87.30	7,872.44	3,417.01	437.69	3,419.58	3,447.48	82.71	598,319.69	610,129.58
11,348.00	95.00	86.70	7,864.82	3,510.54	442.60	3,513.14	3,540.91	82.82	598,324.60	610,223.14
11,441.00	93.90	87.90	7,857.61	3,603.12	446.96	3,605.76	3,633.35	82.93	598,328.96	610,315.76
11,535.00	91.40	90.20	7,853.26	3,696.99	448.52	3,699.63	3,726.72	83.09	598,330.52	610,409.63
11,628.00	89.80	91.10	7,852.29	3,789.98	447.46	3,792.62	3,818.92	83.27	598,329.46	610,502.62
11,721.00	87.00	92.40	7,854.88	3,882.90	444.63	3,885.52	3,910.88	83.47	598,326.63	610,595.52
11,815.00	86.90	92.30	7,859.88	3,976.71	440.78	3,979.31	4,003.65	83.68	598,322.78	610,689.31
11,909.00	87.00	92.30	7,864.89	4,070.52	437.01	4,073.10	4,096.48	83.88	598,319.01	610,783.10
12,002.00	90.30	91.70	7,867.08	4,163.44	433.77	4,166.01	4,188.53	84.06	598,315.77	610,876.01
12,096.00	91.00	92.30	7,866.01	4,257.39	430.48	4,259.94	4,281.64	84.23	598,312.48	610,969.94
12,189.00	91.60	91.70	7,863.90	4,350.33	427.24	4,352.86	4,373.78	84.39	598,309.24	611,062.86
12,280.00	92.30	91.20	7,860.80	4,441.26	424.94	4,443.78	4,464.05	84.54	598,306.94	611,153.78
Last Survey: 12280' MD										
12,345.00	92.30	91.20	7,858.19	4,506.20	423.58	4,508.71	4,528.57	84.63	598,305.58	611,218.71
PTB: 12345' MD										



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM(NAD 83)
Site: Marbob State
Well: No. 123H
Wellbore: OH
Design: MWD-199'-12280', Proj. 12345'

Local Co-ordinate Reference: Well No. 123H
TVD Reference: Well @ 3388.50usft
MD Reference: Well @ 3388.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
199.00	199.00	-0.24	-0.25	Pro MWD First Survey: 199' MD
12,280.00	7,860.80	424.94	4,443.78	Last Survey: 12280' MD
12,345.00	7,858.19	423.58	4,508.71	PTB: 12345' MD