

PRO DIRECTIONAL

NM OIL CONSERVATION  
ARTESIA DISTRICT  
JUN 21 2017

RECEIVED



Warren Fed Com 25-23S-27E RB #206H  
Eddy County, NM 30-015-43828

April 17, 2017

Job No. LNM5134317

ORIGINAL

# Survey Completion Report

April 17, 2017

NM OIL CONSERVATION  
ARTESIA DISTRICT

JUN 21 2017

RECEIVED



Operator Name: Matador Resources  
Well Name: Warren Fed Com 25-23S-27E RB # 206H  
County/Parish: Eddy County,  
State: NM  
Rig Name: Patterson 274  
Job Number: LNM5134317

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	167' MD – 14,079' MD	14,136' MD	03/03/17 – 04/01/17	MWD-OWSG

Sincerely,

A handwritten signature in black ink that reads "Mike Coats". The signature is written in a cursive, flowing style.

Mike Coats  
Well Planning  
Professional Directional



## **Matador Resources**

**Eddy County, NM  
Warren Fed Com 25-23S-27E RB  
206H  
OH**

**Survey: ProDirectional**

## **Survey Report**

**17 April, 2017**

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

**JUN 21 2017**

**RECEIVED**





**ProDirectional**  
Survey Report



**Company:** Matador Resources  
**Project:** Eddy County, NM  
**Site:** Warren Fed Com 25-23S-27E RB  
**Well:** 206H  
**Wellbore:** OH  
**Design:** MWD

**Local Co-ordinates Reference:** Well 206H  
**TVD Reference:** Rig @ 3145.00usft (GL: 3116' + KB:29' (P274))  
**MD Reference:** Rig @ 3145.00usft (GL: 3116' + KB:29' (P274))  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** 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:** Warren Fed Com 25-23S-27E RB  
**Site Position:** Northing: 461,716.00 usft  
**From:** Easting: 558,988.00 usft  
**Position Uncertainty:** Map 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.10 °

**Well:** 206H  
**Well Position:** +N/-S 0.00 usft  
 +E/-W 0.00 usft  
**Position Uncertainty:** Wellhead Elevation: 0.00 usft  
 Latitude: 32° 16' 9.528 N  
 Longitude: 104° 8' 32.952 W  
 Ground Level: 3,116.00 usft

**Wellbore:** OH  
**Magnetics:** Model Name HDGM Sample Date 2/7/2017  
 Declination (°) 7.42 Dip Angle (°) 60.10 Field Strength (mT) 48,142.10

**Design:** MWD  
**Audit Notes:**  
**Version:** 1.0 Phase: ACTUAL  
**Vertical Section:** Depth From (TVD) (usft) 0.00 Tie On Depth: 0.00  
 +N/-S (usft) 0.00 +E/-W (usft) 0.00 Direction (°) 0.01

**Survey Program:** Date 4/2/2017  
**From (usft):** 167.00  
**To (usft):** 14,136.00  
**Survey (Wellbore):** Survey #1 (OH)  
**Tool Name:** MWD - OWSG  
**Description:** MWD - OWSG



# ProDirectional Survey Report



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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	461,746.00	559,028.00
167.00	0.80	317.60	166.99	0.86	0.86	-0.79	1.17	317.60	461,746.86	559,027.21
<b>Pro MWD First Survey: 167' MD</b>										
228.00	1.00	306.80	227.99	1.49	1.49	-1.50	2.12	314.90	461,747.49	559,026.50
320.00	1.20	287.40	319.97	2.26	2.26	-3.06	3.81	306.47	461,748.26	559,024.94
421.00	1.50	283.70	420.94	2.89	2.89	-5.36	6.09	298.38	461,748.89	559,022.64
501.00	1.40	287.70	500.92	3.44	3.44	-7.30	8.07	295.21	461,749.44	559,020.70
605.00	1.30	290.30	604.89	4.23	4.23	-9.62	10.51	293.75	461,750.23	559,018.38
698.00	2.40	269.10	697.84	4.57	4.57	-12.56	13.36	289.99	461,750.57	559,015.44
791.00	5.10	252.20	790.63	3.27	3.27	-18.44	18.73	280.07	461,749.27	559,009.56
883.00	5.60	248.20	882.23	0.35	0.36	-26.50	26.50	270.77	461,746.36	559,001.50
979.00	5.20	248.40	977.81	-2.99	-2.98	-34.90	35.02	285.11	461,743.02	558,993.10
1,074.00	4.60	243.90	1,072.46	-6.25	-6.24	-42.32	42.78	261.61	461,739.76	558,985.68
1,169.00	5.40	251.90	1,167.10	-9.32	-9.31	-49.99	50.85	259.45	461,736.69	558,978.01
1,265.00	5.50	255.20	1,262.66	-11.90	-11.89	-58.73	59.92	258.56	461,734.11	558,969.27
1,360.00	5.00	256.90	1,357.27	-14.00	-13.99	-67.17	68.61	258.23	461,732.01	558,960.83
1,456.00	4.80	258.90	1,452.91	-15.72	-15.71	-75.18	76.81	258.20	461,730.29	558,952.82
1,551.00	5.40	267.00	1,547.54	-16.72	-16.71	-83.55	85.20	258.69	461,729.29	558,944.45
1,646.00	5.60	268.40	1,642.10	-17.09	-17.07	-92.64	94.20	259.56	461,728.93	558,935.36
1,742.00	5.90	253.60	1,737.62	-18.62	-18.60	-102.06	103.74	259.67	461,727.40	558,925.94
1,837.00	4.30	243.10	1,832.25	-21.61	-21.59	-109.92	112.02	258.89	461,724.41	558,918.08
1,932.00	4.90	267.00	1,926.95	-23.43	-23.41	-117.15	119.47	258.70	461,722.59	558,910.85
2,028.00	6.80	259.60	2,022.45	-24.67	-24.65	-126.83	129.21	259.00	461,721.35	558,901.17
2,123.00	7.60	252.80	2,116.70	-27.55	-27.52	-136.37	141.08	258.75	461,718.48	558,889.63
2,218.00	7.20	255.60	2,210.91	-30.89	-30.86	-150.14	153.27	258.38	461,715.14	558,877.86
2,313.00	6.80	257.70	2,305.20	-33.57	-33.54	-161.40	164.85	258.26	461,712.46	558,866.60
2,409.00	6.10	258.50	2,400.59	-35.80	-35.77	-171.95	175.63	258.25	461,710.23	558,856.05



**ProDirectional**  
Survey Report



**Company:** Matador Resources  
**Project:** Eddy County, NM  
**Site:** Warren Fed Com 25-23S-27E RB  
**Well:** 206H  
**Wellbore:** OH  
**Design:** MWD

**Local Co-ordinate Reference:** Well 206H  
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**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)
	2,440.00	6.20	259.40	2,431.41	-36.44	-36.41	-175.21	178.95	258.26	461,709.59	558,852.79
	2,594.00	5.90	259.70	2,584.55	-39.38	-39.35	-191.17	195.18	258.37	461,706.65	558,836.83
	2,689.00	7.70	255.10	2,678.88	-41.90	-41.86	-202.12	206.41	258.30	461,704.14	558,825.88
	2,785.00	11.50	252.00	2,773.52	-46.51	-46.47	-217.45	222.36	257.94	461,699.53	558,810.55
	2,880.00	11.60	251.80	2,866.60	-52.42	-52.38	-235.53	241.28	257.46	461,693.62	558,792.47
	2,975.00	11.00	252.40	2,959.76	-58.15	-58.11	-253.24	259.82	257.08	461,687.89	558,774.76
	3,070.00	10.40	251.90	3,053.10	-63.56	-63.51	-270.03	277.40	256.76	461,682.49	558,757.97
	3,166.00	9.40	250.50	3,147.67	-68.87	-68.82	-285.66	293.83	256.45	461,677.18	558,742.34
	3,261.00	9.10	248.70	3,241.44	-74.19	-74.14	-299.97	308.99	256.12	461,671.86	558,728.03
	3,356.00	11.20	250.90	3,334.95	-79.94	-79.89	-315.69	325.64	255.80	461,666.11	558,712.31
	3,452.00	11.40	250.90	3,429.09	-86.10	-86.04	-333.46	344.38	255.53	461,659.96	558,694.54
	3,547.00	11.30	250.90	3,522.23	-92.22	-92.16	-351.13	363.02	255.29	461,653.84	558,676.87
	3,642.00	11.10	250.60	3,615.42	-98.31	-98.24	-368.55	381.42	255.07	461,647.76	558,659.45
	3,738.00	10.10	249.40	3,709.78	-104.34	-104.27	-385.15	399.01	254.85	461,641.73	558,642.85
	3,833.00	9.00	252.70	3,803.46	-109.49	-109.42	-400.04	414.73	254.70	461,636.58	558,627.96
	3,927.00	9.40	252.10	3,896.25	-114.03	-113.96	-414.36	429.75	254.62	461,632.04	558,613.64
	4,022.00	9.60	251.20	3,989.95	-118.97	-118.90	-429.24	445.41	254.52	461,627.10	558,598.76
	4,118.00	9.60	251.20	4,084.61	-124.14	-124.06	-444.40	461.39	254.40	461,621.94	558,583.60
	4,213.00	8.90	251.30	4,178.37	-129.05	-128.97	-458.86	476.64	254.30	461,617.03	558,569.14
	4,308.00	8.20	250.70	4,272.31	-133.64	-133.56	-472.22	490.74	254.21	461,612.44	558,555.78
	4,404.00	7.30	250.40	4,367.44	-137.96	-137.87	-484.42	503.66	254.11	461,608.13	558,543.58
	4,499.00	7.20	254.20	4,461.68	-141.60	-141.52	-495.84	515.64	254.07	461,604.48	558,532.16
	4,595.00	6.90	255.20	4,556.95	-144.72	-144.63	-507.20	527.42	254.08	461,601.37	558,520.80
	4,690.00	5.90	253.30	4,651.36	-147.58	-147.49	-517.39	538.01	254.09	461,598.51	558,510.61
	4,785.00	7.10	259.60	4,745.75	-150.04	-149.95	-527.85	548.73	254.14	461,596.05	558,500.15
	4,881.00	7.40	259.50	4,840.98	-152.24	-152.15	-539.76	560.80	254.26	461,593.85	558,488.24
	4,976.00	7.10	258.50	4,935.22	-154.53	-154.43	-551.53	572.74	254.36	461,591.57	558,476.47



# ProDirectional

## Survey Report



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**Site:** Warren Fed Com 25-23S-27E RB  
**Well:** 206H  
**Wellbore:** OH  
**Design:** MWD

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	5,071.00	8.00	254.50	5,029.39	-157.47	-157.37	-563.65	585.21	254.40	461,588.63	558,464.35
	5,167.00	7.70	253.00	5,124.50	-161.14	-161.04	-576.24	598.32	254.39	461,584.96	558,451.76
	5,262.00	7.40	252.40	5,218.67	-164.85	-164.75	-588.16	610.80	254.35	461,581.25	558,439.84
	5,357.00	7.20	250.60	5,312.90	-168.68	-168.58	-599.61	622.85	254.30	461,577.42	558,428.39
	5,453.00	6.90	250.60	5,408.18	-172.60	-172.49	-610.72	634.61	254.23	461,573.51	558,417.28
	5,548.00	5.30	250.80	5,502.63	-175.94	-175.83	-620.25	644.69	254.17	461,570.17	558,407.75
	5,644.00	5.10	251.00	5,598.24	-178.78	-178.68	-628.47	653.37	254.13	461,567.32	558,399.53
	5,739.00	5.10	249.20	5,692.86	-181.66	-181.55	-636.41	661.80	254.08	461,564.45	558,391.59
	5,835.00	4.30	253.00	5,788.54	-184.23	-184.12	-643.84	669.65	254.04	461,561.88	558,384.16
	5,930.00	2.40	238.80	5,883.37	-186.30	-186.19	-648.95	675.13	253.99	461,559.81	558,379.05
	6,025.00	0.90	282.90	5,978.34	-187.17	-187.05	-651.37	677.70	253.98	461,558.95	558,376.63
	6,121.00	1.10	285.20	6,074.32	-186.76	-186.64	-653.00	679.15	254.05	461,559.36	558,375.00
	6,216.00	1.50	273.30	6,169.30	-186.45	-186.33	-655.12	681.10	254.12	461,559.67	558,372.88
	6,311.00	1.70	283.70	6,264.26	-186.04	-185.93	-657.73	683.50	254.22	461,560.07	558,370.27
	6,407.00	1.90	285.90	6,360.21	-185.27	-185.15	-660.64	686.10	254.34	461,560.85	558,367.36
	6,501.00	1.20	308.50	6,454.18	-184.23	-184.11	-662.91	688.01	254.48	461,561.89	558,365.09
	6,596.00	0.30	16.60	6,549.17	-183.37	-183.26	-663.62	688.46	254.56	461,562.74	558,364.38
	6,692.00	0.40	342.80	6,645.17	-182.81	-182.70	-663.65	688.34	254.61	461,563.30	558,364.35
	6,787.00	0.80	348.40	6,740.16	-181.84	-181.73	-663.88	688.30	254.69	461,564.27	558,364.12
	6,883.00	0.80	58.30	6,836.16	-180.84	-180.72	-663.44	687.62	254.76	461,565.28	558,364.56
	6,978.00	0.80	70.30	6,931.15	-180.26	-180.15	-662.26	686.32	254.78	461,565.85	558,365.74
	7,073.00	0.70	65.40	7,026.14	-179.80	-179.68	-661.10	685.09	254.79	461,566.32	558,366.90
	7,169.00	0.70	56.10	7,122.13	-179.23	-179.11	-660.08	683.95	254.82	461,566.89	558,367.92
	7,264.00	1.00	44.70	7,217.12	-178.31	-178.20	-659.02	682.69	254.87	461,567.80	558,368.98
	7,359.00	0.90	14.70	7,312.11	-177.00	-176.89	-658.25	681.60	254.96	461,569.11	558,369.75
	7,454.00	0.90	294.90	7,407.10	-175.97	-175.85	-658.73	681.80	255.05	461,570.15	558,369.27
	7,549.00	1.90	277.50	7,502.07	-175.45	-175.33	-660.97	683.83	255.14	461,570.67	558,367.03



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	7,644.00	2.20	280.00	7,597.01	-175.56	-175.44	-664.33	687.11	255.21	461,570.56	558,363.67
	7,740.00	2.80	221.40	7,692.93	-177.64	-177.52	-667.69	690.89	255.11	461,568.48	558,360.31
	7,835.00	2.50	182.40	7,787.83	-181.45	-181.33	-669.32	693.44	254.84	461,564.67	558,358.68
	7,930.00	1.10	151.40	7,882.78	-184.32	-184.20	-668.97	693.86	254.60	461,561.80	558,359.03
	8,026.00	0.60	24.60	7,978.78	-184.67	-184.56	-668.32	693.33	254.56	461,561.44	558,359.68
	8,121.00	1.00	277.80	8,073.77	-184.11	-183.99	-668.93	693.77	254.62	461,562.01	558,359.07
	8,217.00	1.60	66.60	8,169.76	-183.46	-183.35	-668.53	693.22	254.66	461,562.65	558,359.47
	8,312.00	3.20	60.00	8,264.68	-181.61	-181.49	-665.02	689.34	254.73	461,564.51	558,362.98
	8,408.00	2.20	65.00	8,360.57	-179.49	-179.37	-661.03	684.93	254.82	461,566.63	558,366.97
	8,502.00	1.10	93.60	8,454.53	-178.78	-178.67	-658.49	682.30	254.82	461,567.33	558,369.51
	8,597.00	1.60	114.00	8,549.50	-179.38	-179.26	-656.37	680.41	254.72	461,566.74	558,371.63
	8,689.00	1.50	134.20	8,641.47	-180.74	-180.63	-654.33	678.80	254.57	461,565.37	558,373.67
	8,794.00	5.40	349.70	8,746.34	-176.83	-176.72	-654.23	677.68	254.88	461,569.28	558,373.77
	8,842.00	11.50	348.30	8,793.79	-169.92	-169.81	-655.61	677.24	255.48	461,576.19	558,372.39
	8,889.00	15.40	350.80	8,839.50	-159.17	-159.05	-657.55	676.52	256.40	461,586.95	558,370.45
	8,940.00	19.80	352.10	8,888.10	-143.92	-143.81	-659.82	675.31	257.70	461,602.19	558,368.18
	8,984.00	22.70	356.00	8,929.10	-128.07	-127.95	-661.44	673.70	259.05	461,618.05	558,366.56
	9,032.00	25.00	0.80	8,973.01	-108.68	-108.56	-661.95	670.79	260.69	461,637.44	558,366.05
	9,080.00	28.50	6.00	9,015.87	-87.14	-87.02	-660.61	666.31	262.50	461,658.98	558,367.39
	9,129.00	33.00	2.40	9,057.97	-62.17	-62.05	-658.83	661.74	264.62	461,683.95	558,369.17
	9,175.00	37.50	0.60	9,099.53	-35.63	-35.52	-658.15	659.11	266.91	461,710.48	558,369.85
	9,223.00	41.60	359.70	9,132.53	-5.08	-4.96	-658.08	658.10	269.57	461,741.04	558,369.92
	9,271.00	45.50	358.40	9,167.32	27.98	28.10	-658.65	659.24	272.44	461,774.10	558,369.35
	9,318.00	50.40	358.70	9,198.79	62.86	62.97	-659.52	662.52	275.45	461,808.97	558,368.48
	9,332.00	51.80	358.85	9,207.58	73.75	73.87	-659.76	663.88	276.39	461,819.87	558,368.24
	HL Xing: 9332' MD										
	9,366.00	55.20	359.20	9,227.80	101.07	101.19	-660.22	667.93	278.71	461,847.19	558,367.78





# ProDirectional

## Survey Report



**Company:** Matador Resources  
**Project:** Eddy County, NM  
**Site:** Warren Fed Com 25-23S-27E RB  
**Well:** 206H  
**Wellbore:** OH  
**Design:** MWD

**Local Co-ordinate Reference:** Well 206H  
**TVD Reference:** Rig @ 3145.00usft (GL: 3116' + KB:29' (P274))  
**MD Reference:** Rig @ 3145.00usft (GL: 3116' + KB:29' (P274))  
**North Reference:** Grid  
**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)
9,413.00	59.70	359.30	9,253.08	140.68	140.79	-660.74	675.57	282.03	461,886.79	558,367.26
9,461.00	64.00	0.50	9,275.72	182.99	183.10	-660.80	685.70	285.49	461,929.10	558,367.20
9,508.00	68.70	1.70	9,294.57	226.02	226.14	-659.97	697.64	288.91	461,972.14	558,368.03
9,555.00	74.40	1.20	9,309.44	270.57	270.69	-658.84	712.28	292.34	462,016.69	558,369.16
9,658.00	79.60	1.60	9,332.60	370.87	370.98	-656.39	753.97	299.47	462,116.98	558,371.61
9,706.00	85.50	2.10	9,338.82	418.42	418.53	-654.85	777.17	302.58	462,164.53	558,373.15
9,753.00	92.60	4.60	9,339.60	465.30	465.41	-652.11	801.16	305.52	462,211.41	558,375.89
9,847.00	93.60	4.60	9,334.52	558.86	558.97	-644.58	853.19	310.93	462,304.97	558,383.42
9,942.00	89.20	1.60	9,332.20	653.66	653.77	-639.45	914.50	315.63	462,399.77	558,388.55
10,036.00	86.20	0.70	9,335.97	747.55	747.66	-637.56	982.59	319.54	462,493.66	558,390.44
10,130.00	85.60	0.80	9,342.69	841.30	841.41	-636.33	1,054.94	322.90	462,587.41	558,391.67
10,224.00	88.50	2.00	9,347.53	935.14	935.25	-634.04	1,129.91	325.87	462,681.25	558,393.96
10,318.00	87.70	1.80	9,350.64	1,029.04	1,029.15	-630.92	1,207.15	328.49	462,775.15	558,397.08
10,413.00	89.80	2.00	9,352.71	1,123.96	1,124.06	-627.78	1,287.49	330.82	462,870.06	558,400.22
10,507.00	88.00	0.50	9,354.52	1,217.91	1,218.02	-625.73	1,369.34	332.81	462,964.02	558,402.27
10,602.00	90.00	359.50	9,356.18	1,312.89	1,313.00	-625.73	1,454.47	334.52	463,059.00	558,402.27
10,696.00	90.30	359.90	9,355.93	1,406.89	1,407.00	-626.22	1,540.06	336.01	463,153.00	558,401.78
10,790.00	89.60	0.00	9,356.01	1,500.89	1,501.00	-626.30	1,626.42	337.35	463,247.00	558,401.70
10,885.00	90.40	0.50	9,356.01	1,595.88	1,595.99	-625.89	1,714.33	338.59	463,341.99	558,402.11
10,979.00	90.60	0.40	9,355.19	1,689.88	1,689.99	-625.15	1,801.91	339.70	463,435.99	558,402.85
11,074.00	90.10	359.90	9,354.61	1,784.88	1,784.98	-624.90	1,891.21	340.71	463,530.98	558,403.10
11,168.00	87.00	358.60	9,355.99	1,878.82	1,878.93	-626.13	1,980.51	341.57	463,624.93	558,401.87
11,263.00	88.60	358.20	9,360.64	1,973.71	1,973.82	-628.78	2,071.55	342.33	463,719.82	558,399.22
11,357.00	90.90	358.00	9,361.05	2,067.65	2,067.76	-631.89	2,162.16	343.01	463,813.76	558,396.11
11,451.00	91.40	356.70	9,359.16	2,161.53	2,161.64	-636.24	2,253.33	343.60	463,907.64	558,391.76
11,546.00	91.40	356.30	9,356.84	2,256.32	2,256.44	-642.04	2,346.00	344.12	464,002.44	558,385.96
11,641.00	90.60	355.50	9,355.18	2,351.06	2,351.18	-648.83	2,439.06	344.57	464,097.18	558,379.17



**ProDirectional**  
Survey Report



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**Design:** MWD

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

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	V. Sec (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (")	Northing (usft)	Easting (usft)
11,735.00	91.60	356.50	9,353.38	2,444.81	2,444.93	-655.38	2,531.25	344.99	464,190.93	558,372.62
11,829.00	92.30	357.50	9,350.18	2,538.63	2,538.74	-660.30	2,623.21	345.42	464,284.74	558,367.70
11,924.00	90.00	357.10	9,348.27	2,633.50	2,633.61	-664.78	2,716.22	345.83	464,379.61	558,363.22
12,018.00	90.10	359.80	9,348.19	2,727.45	2,727.57	-667.32	2,808.01	346.25	464,473.57	558,360.68
12,113.00	88.60	358.60	9,349.27	2,822.43	2,822.55	-668.64	2,900.67	346.67	464,568.55	558,359.36
12,207.00	90.80	0.40	9,349.76	2,916.42	2,916.53	-669.46	2,992.38	347.07	464,662.53	558,358.54
12,302.00	92.20	1.30	9,347.27	3,011.37	3,011.49	-668.06	3,084.70	347.49	464,757.49	558,359.94
12,397.00	89.10	0.60	9,346.20	3,106.34	3,106.46	-666.48	3,177.15	347.89	464,852.46	558,361.52
12,491.00	88.90	0.40	9,347.84	3,200.32	3,200.44	-665.66	3,268.93	348.25	464,946.44	558,362.34
12,586.00	88.10	359.90	9,350.32	3,295.29	3,295.41	-665.41	3,361.91	348.58	465,041.41	558,362.59
12,680.00	88.60	359.80	9,353.03	3,389.25	3,389.37	-665.66	3,454.11	348.89	465,135.37	558,362.34
12,775.00	88.40	359.50	9,355.52	3,484.21	3,484.33	-666.24	3,547.45	349.18	465,230.33	558,361.76
12,869.00	91.80	0.90	9,355.35	3,578.20	3,578.31	-665.91	3,639.75	349.46	465,324.31	558,362.09
12,964.00	93.30	1.30	9,351.13	3,673.08	3,673.20	-664.09	3,732.75	349.75	465,419.20	558,363.91
13,058.00	90.90	0.40	9,347.68	3,767.00	3,767.12	-662.70	3,824.96	350.02	465,513.12	558,365.30
13,152.00	90.90	0.40	9,346.20	3,860.99	3,861.10	-662.04	3,917.45	350.27	465,607.10	558,365.96
13,246.00	89.00	0.80	9,346.29	3,954.98	3,955.09	-661.06	4,009.96	350.51	465,701.09	558,366.94
13,341.00	91.70	2.30	9,345.71	4,049.93	4,050.05	-658.49	4,103.23	350.77	465,796.05	558,369.51
13,435.00	89.80	3.90	9,344.48	4,143.78	4,143.89	-653.40	4,195.09	351.04	465,889.89	558,374.60
13,530.00	91.90	4.60	9,343.07	4,238.50	4,238.62	-646.36	4,287.62	351.33	465,984.62	558,381.64
13,624.00	87.00	0.80	9,343.97	4,332.35	4,332.46	-641.94	4,379.76	351.57	466,078.46	558,386.06
13,718.00	86.30	0.60	9,349.46	4,426.18	4,426.29	-640.79	4,472.44	351.76	466,172.29	558,387.21
13,813.00	88.50	359.30	9,353.77	4,521.08	4,521.19	-640.87	4,566.38	351.93	466,267.19	558,387.13
13,907.00	88.50	358.70	9,356.23	4,615.03	4,615.14	-642.51	4,659.65	352.07	466,361.14	558,385.49
14,001.00	92.80	1.70	9,355.17	4,708.99	4,709.10	-642.19	4,752.69	352.23	466,455.10	558,385.81
14,079.00	92.30	1.50	9,351.70	4,786.88	4,786.99	-640.01	4,829.59	352.38	466,532.99	558,387.99

Last Survey: 14079' MD, 9351.7' TVD



**ProDirectional**  
Survey Report



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**Survey Calculation Method:** Minimum Curvature  
**Databases:** 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)
14,136.00	92.30	1.50	9,349.41	4,843.82	4,843.93	-638.52	4,885.83	352.49	466,589.93	558,389.48
<b>PTB: 14136' MD, 9349.41' TVD</b>										

Design Annotations	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
			+N/S (usft)	+E/W (usft)	
	167.00	166.99	0.86	-0.79	Pro MWD First Survey: 167' MD
	9,332.00	9,207.58	73.87	-659.76	HL Xing: 9332' MD
	14,079.00	9,351.70	4,786.99	-640.01	Last Survey: 14079' MD, 9351.7' TVD
	14,136.00	9,349.41	4,843.93	-638.52	PTB: 14136' MD, 9349.41' TVD