



ProDirectional

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 14 2018

RECEIVED



Stebbins Fed 20 No. 133H

Eddy County, NM

June 23, 2017

Job No. LNM5140017

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

June 23, 2017



Operator Name: Matador Resources
Well Name: Stebbins Federal 20 No. 133H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 809
Job Number: LNM5140017

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	1,254' MD – 13,678' MD	13,878' MD	05/23/17 – 06/01/17	MWD-OWSG

Sincerely,

Mike Coats

Mike Coats
Well Planning
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com



Matador Resources

**Eddy County, NM
Stebbins Federal 20
No. 133H
OH**

Survey: ProDirectional

Survey Report

23 June, 2017

**NM OIL CONSERVATION
ARTESIA DISTRICT**

FEB 14 2018

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ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Stebbins Federal 20 (113-123-133-203)
Well: No. 133H
Wellbore: OH
Design: Gyro-MWD

Local Co-ordinate Reference: Well No. 133H
TVD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
MD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
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 Stebbins Federal 20 (113-123-133-203)

Site Position:		Northing:	566,123.00 usft	Latitude:	32.5561722°N
From:	Map	Easting:	570,396.00 usft	Longitude:	104.1048560°W
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well No. 133H

Well Position	+N/-S	0.00 usft	Northing:	566,183.00 usft	Latitude:	32.5563371°N
	+E/-W	0.00 usft	Easting:	570,396.00 usft	Longitude:	104.1048555°W
Position Uncertainty		1.10 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,245.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/3/2016	7.47	60.42	48,288.90

Design Gyro-MWD

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	90.05



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Survey Program		Date 6/1/2017									
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description							
23.87	1,060.00	Gyro (OH)	GYRO-NS	Gyrocompass Gyro							
1,254.00	13,878.00	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	566,183.00	570,396.00	
23.87	0.21	343.37	23.87	-0.01	0.04	-0.01	0.04	343.37	566,183.04	570,395.99	
116.70	0.33	348.86	116.70	-0.11	0.47	-0.11	0.48	346.42	566,183.47	570,395.89	
209.53	0.53	322.19	209.53	-0.43	1.07	-0.43	1.15	338.19	566,184.07	570,395.57	
302.36	0.68	335.61	302.35	-0.92	1.91	-0.92	2.12	334.32	566,184.91	570,395.08	
395.19	0.62	23.91	395.18	-0.94	2.87	-0.94	3.02	341.83	566,185.87	570,395.06	
488.02	0.59	63.85	488.00	-0.31	3.54	-0.31	3.55	355.00	566,186.54	570,395.69	
580.85	0.77	102.08	580.82	0.73	3.62	0.73	3.69	11.39	566,186.62	570,396.73	
673.68	1.00	115.90	673.64	2.07	3.14	2.07	3.76	33.40	566,186.14	570,398.07	
766.51	1.13	125.48	766.46	3.54	2.25	3.54	4.20	57.56	566,185.25	570,399.54	
859.34	1.11	129.61	859.27	4.98	1.15	4.98	5.11	77.04	566,184.15	570,400.98	
952.17	0.74	136.24	952.09	6.09	0.14	6.09	6.09	88.68	566,183.14	570,402.09	
1,045.00	0.60	147.61	1,044.91	6.76	-0.70	6.76	6.80	95.94	566,182.30	570,402.76	
1,060.00	0.58	148.42	1,059.91	6.84	-0.83	6.84	6.89	96.95	566,182.17	570,402.84	
1,254.00	0.50	183.30	1,253.90	7.31	-2.52	7.31	7.73	108.99	566,180.48	570,403.31	
Pro MWD First Survey: 1254' MD											
1,349.00	1.60	315.20	1,348.89	6.35	-1.99	6.35	6.66	107.39	566,181.01	570,402.35	
1,443.00	3.30	322.30	1,442.80	3.77	1.08	3.77	3.92	73.97	566,184.08	570,399.77	
1,536.00	2.80	324.50	1,535.67	0.81	5.05	0.82	5.12	9.18	566,188.05	570,396.82	
1,630.00	2.90	331.00	1,629.55	-1.68	9.00	-1.67	9.15	349.49	566,192.00	570,394.33	
1,723.00	2.50	338.10	1,722.45	-3.58	12.94	-3.57	13.42	344.59	566,195.94	570,392.43	



ProDirectional Survey Report



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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)	
1,817.00	2.90	334.90	1,816.35	-5.36	16.99	-5.34	17.81	342.55	566,199.99	570,390.66	
1,911.00	4.60	334.70	1,910.14	-7.98	22.56	-7.96	23.92	340.56	566,205.56	570,388.04	
2,004.00	4.50	333.90	2,002.85	-11.18	29.20	-11.16	31.26	339.09	566,212.20	570,384.84	
2,098.00	4.10	333.40	2,096.58	-14.32	35.52	-14.29	38.29	338.09	566,218.52	570,381.71	
2,191.00	3.90	333.60	2,189.36	-17.22	41.33	-17.18	44.76	337.43	566,224.33	570,378.82	
2,285.00	3.40	335.00	2,283.17	-19.82	46.72	-19.78	50.73	337.05	566,229.72	570,376.22	
2,379.00	2.90	339.80	2,377.02	-21.82	51.47	-21.78	55.89	337.07	566,234.47	570,374.22	
2,473.00	2.60	339.40	2,470.92	-23.40	55.70	-23.35	60.40	337.26	566,238.70	570,372.65	
2,566.00	2.60	327.40	2,563.82	-25.28	59.45	-25.23	64.58	337.01	566,242.45	570,370.77	
2,660.00	2.40	329.50	2,657.73	-27.43	62.94	-27.38	68.64	336.49	566,245.94	570,368.62	
2,753.00	2.00	334.60	2,750.66	-29.12	66.09	-29.06	72.20	336.26	566,249.09	570,366.94	
2,847.00	1.70	331.90	2,844.61	-30.48	68.80	-30.42	75.23	336.15	566,251.80	570,365.58	
2,940.00	1.80	332.90	2,937.57	-31.80	71.32	-31.74	78.06	336.01	566,254.32	570,364.26	
3,034.00	1.60	337.60	3,031.53	-32.97	73.84	-32.91	80.85	335.98	566,256.84	570,363.09	
3,060.00	1.80	336.80	3,057.52	-33.27	74.56	-33.21	81.62	335.99	566,257.56	570,362.79	
3,123.00	2.00	335.70	3,120.48	-34.12	76.47	-34.05	83.71	336.00	566,259.47	570,361.95	
3,216.00	1.50	311.30	3,213.44	-35.70	78.75	-35.63	86.44	335.65	566,261.75	570,360.37	
3,309.00	1.40	310.60	3,306.41	-37.48	80.29	-37.41	88.58	335.02	566,263.29	570,358.59	
3,402.00	2.80	333.10	3,399.35	-39.37	83.06	-39.30	91.89	334.68	566,266.06	570,356.70	
3,496.00	3.10	336.20	3,493.22	-41.44	87.43	-41.37	96.72	334.68	566,270.43	570,354.63	
3,590.00	2.90	0.90	3,587.10	-42.43	92.13	-42.35	101.40	335.31	566,275.13	570,353.65	
3,683.00	3.10	10.70	3,679.97	-41.93	96.96	-41.85	105.60	336.65	566,279.96	570,354.15	
3,777.00	3.20	12.30	3,773.83	-40.91	102.02	-40.82	109.88	338.19	566,285.02	570,355.18	
3,870.00	3.00	8.70	3,866.69	-39.99	106.96	-39.90	114.16	339.54	566,289.96	570,356.10	
3,963.00	3.60	348.50	3,959.54	-40.21	112.23	-40.11	119.18	340.33	566,295.23	570,355.89	
4,057.00	3.70	343.20	4,053.35	-41.68	118.02	-41.58	125.13	340.59	566,301.02	570,354.42	
4,150.00	4.00	346.20	4,146.14	-43.33	124.04	-43.22	131.36	340.79	566,307.04	570,352.78	



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Survey

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4,243.00	4.30	345.40	4,238.90	-44.98	130.57	-44.87	138.06	341.03	566,313.57	570,351.13
4,337.00	4.10	345.20	4,332.64	-46.74	137.23	-46.62	144.93	341.24	566,320.23	570,349.38
4,431.00	4.40	346.00	4,426.39	-48.47	143.98	-48.35	151.88	341.44	566,326.98	570,347.65
4,524.00	4.60	344.70	4,519.10	-50.33	151.03	-50.19	159.16	341.62	566,334.03	570,345.81
4,618.00	4.80	343.10	4,612.78	-52.47	158.43	-52.33	166.85	341.72	566,341.43	570,343.67
4,711.00	4.70	341.00	4,705.46	-54.85	165.76	-54.70	174.55	341.74	566,348.76	570,341.30
4,804.00	5.00	344.30	4,798.13	-57.19	173.26	-57.04	182.41	341.78	566,356.26	570,338.96
4,898.00	5.10	339.70	4,891.77	-59.76	181.12	-59.60	190.68	341.79	566,364.12	570,336.40
4,991.00	4.00	342.00	4,984.47	-62.20	188.09	-62.04	198.05	341.75	566,371.09	570,333.96
5,084.00	3.70	336.70	5,077.26	-64.39	193.93	-64.23	204.29	341.68	566,376.93	570,331.77
5,178.00	3.90	329.10	5,171.06	-67.24	199.46	-67.07	210.43	341.41	566,382.46	570,328.93
5,271.00	3.70	330.00	5,263.85	-70.37	204.77	-70.19	216.46	341.08	566,387.77	570,325.81
5,365.00	2.60	333.90	5,357.71	-72.83	209.31	-72.65	221.56	340.86	566,392.31	570,323.35
5,458.00	0.40	286.50	5,450.67	-74.07	211.30	-73.89	223.84	340.73	566,394.30	570,322.11
5,552.00	0.30	192.10	5,544.67	-74.44	211.15	-74.25	223.82	340.63	566,394.15	570,321.75
5,646.00	0.70	263.20	5,638.67	-75.06	210.84	-74.87	223.74	340.45	566,393.84	570,321.13
5,739.00	0.70	276.00	5,731.66	-76.19	210.83	-76.00	224.11	340.18	566,393.83	570,320.00
5,833.00	0.80	306.60	5,825.65	-77.28	211.28	-77.10	224.91	339.95	566,394.28	570,318.90
5,926.00	0.60	309.40	5,918.65	-78.18	211.98	-78.00	225.87	339.80	566,394.98	570,318.00
6,020.00	0.80	327.40	6,012.64	-78.92	212.85	-78.73	226.94	339.70	566,395.85	570,317.27
6,114.00	1.00	24.10	6,106.63	-78.94	214.15	-78.75	228.17	339.81	566,397.15	570,317.25
6,207.00	1.20	338.90	6,199.61	-78.96	215.80	-78.77	229.72	339.95	566,398.80	570,317.23
6,301.00	1.90	322.90	6,293.58	-80.25	217.96	-80.06	232.20	339.83	566,400.96	570,315.94
6,395.00	2.10	326.30	6,387.52	-82.15	220.63	-81.96	235.36	339.62	566,403.63	570,314.04
6,488.00	1.10	296.10	6,480.49	-83.90	222.44	-83.71	237.67	339.38	566,405.44	570,312.29
6,582.00	1.10	251.80	6,574.47	-85.57	222.56	-85.37	238.37	339.01	566,405.56	570,310.63
6,675.00	1.20	240.30	6,667.45	-87.26	221.80	-87.07	238.28	338.57	566,404.80	570,308.93



ProDirectional Survey Report



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6,769.00	0.80	232.20	6,761.44	-88.63	220.91	-88.44	237.95	338.18	566,403.91	570,307.56	
6,862.00	1.00	224.10	6,854.43	-89.71	219.93	-89.52	237.45	337.85	566,402.93	570,306.48	
6,955.00	0.80	199.70	6,947.42	-90.49	218.73	-90.30	236.64	337.57	566,401.73	570,305.70	
7,049.00	1.20	189.90	7,041.40	-90.88	217.15	-90.69	235.32	337.33	566,400.15	570,305.31	
7,142.00	1.90	206.40	7,134.37	-91.73	214.81	-91.55	233.50	336.92	566,397.81	570,304.45	
7,236.00	3.00	214.10	7,228.28	-93.80	211.37	-93.62	231.18	336.11	566,394.37	570,302.38	
7,329.00	3.30	217.70	7,321.14	-96.80	207.24	-96.62	228.66	335.00	566,390.24	570,299.38	
7,424.00	3.20	223.20	7,415.99	-100.28	203.14	-100.11	226.47	333.77	566,386.14	570,295.89	
7,517.00	0.30	173.90	7,508.93	-102.03	201.01	-101.86	225.34	333.13	566,384.01	570,294.14	
7,611.00	0.40	117.80	7,602.93	-101.72	200.61	-101.54	224.85	333.15	566,383.61	570,294.46	
7,705.00	0.60	137.50	7,696.93	-101.09	200.09	-100.92	224.10	333.24	566,383.09	570,295.08	
7,798.00	0.90	144.70	7,789.92	-100.34	199.14	-100.17	222.91	333.30	566,382.14	570,295.83	
7,891.00	1.80	153.20	7,882.89	-99.26	197.24	-99.09	220.73	333.33	566,380.24	570,296.91	
7,985.00	1.90	154.80	7,976.85	-97.93	194.51	-97.76	217.70	333.32	566,377.51	570,298.24	
8,079.00	1.20	158.90	8,070.81	-96.91	192.18	-96.74	215.16	333.28	566,375.18	570,299.26	
8,172.00	0.30	115.40	8,163.80	-96.34	191.17	-96.17	214.00	333.30	566,374.17	570,299.83	
8,266.00	1.80	70.60	8,257.78	-94.72	191.56	-94.55	213.62	333.73	566,374.56	570,301.45	
8,359.00	3.70	74.90	8,350.67	-90.45	192.82	-90.28	212.91	334.91	566,375.82	570,305.72	
8,453.00	3.30	88.40	8,444.50	-84.82	193.69	-84.65	211.38	336.39	566,376.69	570,311.35	
8,484.00	3.00	90.60	8,475.45	-83.11	193.70	-82.94	210.72	336.82	566,376.70	570,313.06	
8,530.00	2.20	93.50	8,521.40	-81.03	193.64	-80.86	209.84	337.34	566,376.64	570,315.14	
8,577.00	6.60	83.00	8,568.26	-77.44	193.91	-77.28	208.74	338.27	566,376.91	570,318.72	
8,623.00	13.00	81.20	8,613.56	-69.70	195.03	-69.53	207.05	340.38	566,378.03	570,326.47	
8,670.00	20.70	83.80	8,658.51	-56.20	196.74	-56.03	204.56	344.10	566,379.74	570,339.97	
8,717.00	26.60	90.50	8,701.55	-37.40	197.54	-37.23	201.02	349.33	566,380.54	570,358.77	
8,764.00	32.00	97.80	8,742.54	-14.51	195.76	-14.34	196.28	355.81	566,378.76	570,381.66	
8,811.00	36.20	99.00	8,781.45	11.55	191.90	11.71	192.25	3.49	566,374.90	570,407.71	



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Wellbore: OH
Design: Gyro-MWD

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MD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Pat809))
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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)
8,858.00	41.30	97.20	8,818.09	40.67	187.78	40.83	192.17	12.27	566,370.78	570,436.83
8,904.00	43.50	94.30	8,852.06	71.52	184.69	71.69	198.11	21.21	566,367.69	570,467.69
8,951.00	45.00	92.90	8,885.73	104.26	182.63	104.41	210.37	29.76	566,365.63	570,500.41
8,998.00	46.40	92.40	8,918.55	137.86	181.08	138.02	227.68	37.31	566,364.08	570,534.02
9,045.00	48.40	91.60	8,950.36	172.43	179.88	172.59	249.28	43.82	566,362.88	570,568.59
9,080.00	50.00	91.06	8,973.23	198.92	179.26	199.07	267.89	48.00	566,362.26	570,595.07
HL Xing: 9080' MD										
9,091.00	50.50	90.90	8,980.27	207.37	179.12	207.53	274.14	49.20	566,362.12	570,603.53
9,138.00	53.00	90.30	9,009.36	244.28	178.73	244.44	302.81	53.83	566,361.73	570,640.44
9,184.00	55.70	90.80	9,036.17	281.65	178.37	281.81	333.52	57.67	566,361.37	570,677.81
9,231.00	57.90	91.10	9,061.90	320.97	177.72	321.13	367.03	61.04	566,360.72	570,717.13
9,278.00	60.20	92.20	9,086.07	361.26	176.55	361.42	402.24	63.96	566,359.55	570,757.42
9,325.00	63.00	92.30	9,108.43	402.57	174.93	402.72	439.08	66.52	566,357.93	570,798.72
9,371.00	65.10	92.90	9,128.55	443.89	173.05	444.04	476.57	68.71	566,356.05	570,840.04
9,418.00	67.60	93.50	9,147.41	486.87	170.65	487.02	516.05	70.69	566,353.65	570,883.02
9,465.00	73.30	94.40	9,163.13	531.04	167.59	531.19	557.00	72.49	566,350.59	570,927.19
9,512.00	79.50	94.70	9,174.18	576.56	163.97	576.70	599.56	74.13	566,346.97	570,972.70
9,558.00	85.20	91.70	9,180.30	622.06	161.43	622.20	642.80	75.46	566,344.43	571,018.20
9,605.00	88.30	90.50	9,182.96	668.97	160.53	669.11	688.10	76.51	566,343.53	571,065.11
9,652.00	88.80	90.60	9,184.15	715.95	160.08	716.09	733.77	77.40	566,343.08	571,112.09
9,745.00	89.90	90.90	9,185.21	808.94	158.86	809.08	824.53	78.89	566,341.86	571,205.08
9,839.00	91.40	91.60	9,184.14	902.91	156.81	903.04	916.56	80.15	566,339.81	571,299.04
9,932.00	92.00	91.00	9,181.38	995.84	154.70	995.98	1,007.92	81.17	566,337.70	571,391.98
10,025.00	88.30	90.10	9,181.14	1,088.82	153.81	1,088.96	1,099.77	81.96	566,336.81	571,484.96
10,119.00	88.60	89.90	9,183.68	1,182.79	153.81	1,182.92	1,192.88	82.59	566,336.81	571,578.92
10,212.00	88.90	90.30	9,185.71	1,275.77	153.65	1,275.90	1,285.12	83.13	566,336.65	571,671.90
10,305.00	89.40	89.90	9,187.09	1,368.75	153.49	1,368.89	1,377.47	83.60	566,336.49	571,764.89



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Stebbins Federal 20 (113-123-133-203)
Well: No. 133H
Wellbore: OH
Design: Gyro-MWD

Local Co-ordinate Reference: Well No. 133H
TVD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
MD Reference: Well @ 3273.50usft (GL: 3245' + KB: 28.5' (Patt809))
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)
10,399.00	89.90	90.20	9,187.66	1,462.75	153.41	1,462.89	1,470.91	84.01	566,336.41	571,858.89
10,493.00	87.50	90.60	9,189.80	1,556.72	152.75	1,556.85	1,564.33	84.40	566,335.75	571,952.85
10,586.00	87.70	90.40	9,193.69	1,649.64	151.94	1,649.77	1,656.75	84.74	566,334.94	572,045.77
10,679.00	89.10	90.60	9,196.29	1,742.59	151.13	1,742.73	1,749.27	85.04	566,334.13	572,138.73
10,773.00	89.70	90.80	9,197.27	1,836.58	149.98	1,836.71	1,842.83	85.33	566,332.98	572,232.71
10,867.00	90.30	90.40	9,197.27	1,930.58	148.99	1,930.71	1,936.45	85.59	566,331.99	572,326.71
10,960.00	91.10	90.40	9,196.13	2,023.57	148.35	2,023.70	2,029.13	85.81	566,331.35	572,419.70
11,054.00	90.90	90.10	9,194.49	2,117.55	147.94	2,117.68	2,122.84	86.00	566,330.94	572,513.68
11,148.00	91.60	89.90	9,192.44	2,211.53	147.94	2,211.66	2,216.60	86.17	566,330.94	572,607.66
11,241.00	93.30	89.70	9,188.47	2,304.44	148.26	2,304.57	2,309.33	86.32	566,331.26	572,700.57
11,335.00	92.10	90.00	9,184.04	2,398.33	148.51	2,398.46	2,403.06	86.46	566,331.51	572,794.46
11,429.00	93.00	89.90	9,179.86	2,492.24	148.59	2,492.37	2,496.80	86.59	566,331.59	572,888.37
11,522.00	94.60	89.70	9,173.69	2,585.03	148.91	2,585.16	2,589.45	86.70	566,331.91	572,981.16
11,616.00	95.60	89.10	9,165.34	2,678.65	149.89	2,678.78	2,682.97	86.80	566,332.89	573,074.78
11,709.00	92.40	88.90	9,158.85	2,771.40	151.51	2,771.53	2,775.67	86.87	566,334.51	573,167.53
11,803.00	90.40	89.40	9,156.56	2,865.35	152.90	2,865.49	2,869.56	86.95	566,335.90	573,261.49
11,896.00	88.70	89.60	9,157.29	2,958.34	153.72	2,958.48	2,962.47	87.03	566,336.72	573,354.48
11,990.00	88.40	89.60	9,159.66	3,052.31	154.37	3,052.44	3,056.35	87.10	566,337.37	573,448.44
12,083.00	90.40	89.30	9,160.64	3,145.29	155.26	3,145.43	3,149.26	87.17	566,338.26	573,541.43
12,177.00	90.20	89.80	9,160.15	3,239.29	156.00	3,239.43	3,243.18	87.24	566,339.00	573,635.43
12,270.00	88.30	91.40	9,161.36	3,332.27	155.03	3,332.41	3,336.01	87.34	566,338.03	573,728.41
12,366.00	88.10	92.60	9,164.38	3,428.16	151.68	3,428.30	3,431.65	87.47	566,334.68	573,824.30
12,460.00	88.90	92.90	9,166.84	3,522.03	147.17	3,522.16	3,525.23	87.61	566,330.17	573,918.16
12,554.00	85.80	92.00	9,171.19	3,615.83	143.16	3,615.96	3,618.79	87.73	566,326.16	574,011.96
12,647.00	85.00	91.80	9,178.64	3,708.48	140.08	3,708.61	3,711.25	87.84	566,323.08	574,104.61
12,740.00	84.80	91.80	9,186.91	3,801.07	137.17	3,801.19	3,803.67	87.93	566,320.17	574,197.19
12,834.00	84.40	91.30	9,195.76	3,894.62	134.64	3,894.74	3,897.07	88.02	566,317.64	574,290.74



ProDirectional Survey Report



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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)
12,928.00	86.70	92.20	9,203.05	3,988.29	131.78	3,988.41	3,990.58	88.11	566,314.78	574,384.41
13,021.00	87.40	92.60	9,207.84	4,081.09	127.89	4,081.20	4,083.20	88.21	566,310.89	574,477.20
13,115.00	88.30	92.60	9,211.36	4,174.93	123.63	4,175.04	4,176.87	88.30	566,306.63	574,571.04
13,208.00	89.70	91.60	9,212.99	4,267.85	120.22	4,267.96	4,269.65	88.39	566,303.22	574,663.96
13,302.00	91.00	90.80	9,212.41	4,361.83	118.25	4,361.93	4,363.53	88.45	566,301.25	574,757.93
13,396.00	91.60	90.90	9,210.28	4,455.79	116.86	4,455.90	4,457.43	88.50	566,299.86	574,851.90
13,489.00	91.80	90.70	9,207.52	4,548.74	115.56	4,548.85	4,550.31	88.54	566,298.56	574,944.85
13,583.00	92.30	90.80	9,204.16	4,642.68	114.33	4,642.78	4,644.19	88.59	566,297.33	575,038.78
13,678.00	92.60	90.40	9,200.10	4,737.58	113.34	4,737.69	4,739.04	88.63	566,296.34	575,133.69
Last Survey: 13678' MD, 9200.1' TVD										
13,769.00	92.60	90.40	9,195.97	4,828.49	112.70	4,828.59	4,829.90	88.66	566,295.70	575,224.59
HL Xing: 13769' MD										
13,878.00	92.60	90.41	9,191.02	4,937.38	111.93	4,937.47	4,938.74	88.70	566,294.93	575,333.47
PTB: 13878' MD, 9191.02' TVD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,254.00	1,253.90	-2.52	7.31	Pro MWD First Survey: 1254' MD
9,080.00	8,973.23	179.26	199.07	HL Xing: 9080' MD
13,678.00	9,200.10	113.34	4,737.69	Last Survey: 13678' MD, 9200.1' TVD
13,769.00	9,195.97	112.70	4,828.59	HL Xing: 13769' MD
13,878.00	9,191.02	111.93	4,937.47	PTB: 13878' MD, 9191.02' TVD