



HOBBS OCD

SEP 24 2019

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Florence State 23-23S-34E AR No. 133H

Lea County, NM

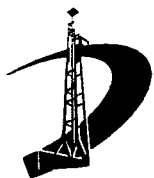
30-025-44649

August 02, 2019

Job No. LNM5212619

Certified Report

ORIGINAL



PRODIRECTIONAL

Survey Certification Letter

August 02, 2019



Operator Name: Matador Resources
Well Name: Florence State 23-23S-34E AR No. 133H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 810
Job Number: LNM5212619

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	159' MD – 16,161' MD	16,226' MD	05/31/19 – 07/05/19	MWD-OWSG

Sincerely,

Mike Coats

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com

The Standard of Excellence in Directional Supervision



Matador Resources

Lea County, NM

Florence State 23-23S-34E AR

No. 133H

OH

Survey: ProDirectional

Survey Report

02 August, 2019





ProDirectional Survey Report



Company:	Matador Resources	Local Co-ordinate Reference:	Well No. 133H
Project:	Lea County, NM (NAD83)	TVD Reference:	Well @ 3410.50usft
Site:	Florence State 23-23S-34E AR	MD Reference:	Well @ 3410.50usft
Well:	No. 133H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	MWD-159'-16161', PTB: 16226'	Database:	WellPlanner1

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Florence State 23-23S-34E AR		
Site Position:		Northing:	467,999.00 usft
From:	Map	Easting:	818,309.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.283423
		Longitude:	-103.437090
		Grid Convergence:	0.48 °

Well	No. 133H, LNM5212619		
Well Position	+N/-S	0.00 usft	Northing: 467,969.00 usft
	+E/-W	0.00 usft	Easting: 818,309.00 usft
Position Uncertainty	0.00 usft		Latitude: 32.283340
		Wellhead Elevation:	usft
			Longitude: -103.437091
			Ground Level: 3,382.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/12/2019	6.65	60.00	47,965.10

Design	MWD-159'-16161', PTB: 16226'			
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	359.49

Survey Program	Date	8/2/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
159.00	16,226.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Florence State 23-23S-34E AR
Well: No. 133H
Wellbore: OH
Design: MWD-159'-16161', PTB: 16226'

Local Co-ordinate Reference: Well No. 133H
TVD Reference: Well @ 3410.50usft
MD Reference: Well @ 3410.50usft
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	467,969.00	818,309.00
159.00	0.00	0.00	159.00	0.00	0.00	0.00	0.00	0.00	467,969.00	818,309.00
Pro MWD First Survey: 159' MD										
221.00	0.20	83.20	221.00	0.01	0.01	0.11	0.11	83.20	467,969.01	818,309.11
314.00	0.10	84.00	314.00	0.04	0.04	0.35	0.35	83.38	467,969.04	818,309.35
407.00	0.40	61.50	407.00	0.20	0.20	0.72	0.74	74.09	467,969.20	818,309.72
531.00	1.60	104.00	530.98	-0.03	-0.01	2.78	2.78	90.17	467,968.99	818,311.78
626.00	2.10	93.30	625.93	-0.48	-0.43	5.80	5.82	94.23	467,968.57	818,314.80
721.00	1.80	105.80	720.87	-1.02	-0.94	8.97	9.02	95.95	467,968.06	818,317.97
816.00	1.10	172.90	815.85	-2.34	-2.25	10.52	10.76	102.06	467,966.75	818,319.52
861.00	1.30	192.20	860.84	-3.27	-3.17	10.47	10.94	106.87	467,965.83	818,319.47
964.00	1.20	185.70	963.81	-5.48	-5.39	10.11	11.46	118.06	467,963.61	818,319.11
996.00	1.20	187.80	995.81	-6.14	-6.06	10.03	11.72	121.11	467,962.94	818,319.03
1,091.00	1.10	158.90	1,090.79	-7.98	-7.89	10.23	12.92	127.65	467,961.11	818,319.23
1,187.00	1.00	138.20	1,186.77	-9.47	-9.38	11.12	14.54	130.14	467,959.62	818,320.12
1,282.00	0.70	248.20	1,281.77	-10.31	-10.21	11.13	15.10	132.53	467,958.79	818,320.13
1,378.00	1.90	259.80	1,377.74	-10.79	-10.71	9.02	14.00	139.89	467,958.29	818,318.02
1,473.00	1.50	257.70	1,472.70	-11.31	-11.25	6.26	12.87	150.93	467,957.75	818,315.26
1,569.00	1.40	268.20	1,568.67	-11.59	-11.56	3.86	12.18	161.55	467,957.44	818,312.86
1,664.00	1.60	273.20	1,663.64	-11.53	-11.52	1.37	11.60	173.21	467,957.48	818,310.37
1,760.00	1.60	272.80	1,759.60	-11.37	-11.38	-1.30	11.45	186.54	467,957.62	818,307.70
1,855.00	1.30	280.00	1,854.57	-11.09	-11.13	-3.69	11.72	198.35	467,957.87	818,305.31
1,950.00	1.10	274.80	1,949.55	-10.81	-10.86	-5.66	12.25	207.52	467,958.14	818,303.34
2,046.00	2.10	267.80	2,045.51	-10.78	-10.85	-8.34	13.69	217.53	467,958.15	818,300.66
2,141.00	2.50	269.80	2,140.43	-10.82	-10.93	-12.15	16.34	228.02	467,958.07	818,296.85
2,237.00	1.90	264.00	2,236.36	-10.96	-11.10	-15.82	19.33	234.95	467,957.90	818,293.18
2,332.00	3.00	257.30	2,331.27	-11.64	-11.81	-19.82	23.07	239.20	467,957.19	818,289.18



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Florence State 23-23S-34E AR
Well: No. 133H
Wellbore: OH
Design: MWD-159'-16161', PTB: 16226'

Local Co-ordinate Reference: Well No. 133H
TVD Reference: Well @ 3410.50usft
MD Reference: Well @ 3410.50usft
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)
2,428.00	3.20	258.10	2,427.13	-12.70	-12.92	-24.89	28.04	242.57	467,956.08	818,284.11
2,523.00	4.10	253.40	2,521.94	-14.16	-14.44	-30.74	33.96	244.84	467,954.56	818,278.26
2,619.00	6.20	253.50	2,617.55	-16.54	-16.89	-39.00	42.50	246.58	467,952.11	818,270.00
2,714.00	6.50	255.50	2,711.96	-19.25	-19.69	-49.12	52.92	248.16	467,949.31	818,259.88
2,810.00	5.80	253.80	2,807.41	-21.88	-22.41	-59.04	63.15	249.22	467,946.59	818,249.96
2,905.00	4.50	252.70	2,902.02	-24.25	-24.85	-67.21	71.66	249.71	467,944.15	818,241.79
3,001.00	4.90	229.10	2,997.71	-28.00	-28.66	-73.90	79.27	248.81	467,940.34	818,235.10
3,096.00	6.60	263.50	3,092.26	-31.20	-31.93	-82.40	88.37	248.82	467,937.07	818,226.60
3,192.00	6.90	267.50	3,187.59	-31.97	-32.81	-93.64	99.22	250.69	467,936.19	818,215.36
3,287.00	6.00	265.50	3,281.99	-32.52	-33.45	-104.29	109.53	252.22	467,935.55	818,204.71
3,383.00	4.80	264.70	3,377.56	-33.20	-34.21	-113.29	118.35	253.20	467,934.79	818,195.71
3,478.00	3.40	279.50	3,472.32	-33.05	-34.11	-120.03	124.78	254.13	467,934.89	818,188.97
3,574.00	4.00	281.80	3,568.12	-31.84	-32.96	-126.12	130.35	255.35	467,936.04	818,182.88
3,670.00	5.10	277.20	3,663.81	-30.55	-31.74	-133.63	137.35	256.64	467,937.26	818,175.37
3,765.00	4.90	264.00	3,758.46	-30.37	-31.64	-141.85	145.34	257.43	467,937.36	818,167.15
3,860.00	5.20	244.40	3,853.09	-32.59	-33.92	-149.77	153.56	257.24	467,935.08	818,159.23
3,956.00	5.70	242.30	3,948.66	-36.61	-38.02	-157.91	162.43	256.46	467,930.98	818,151.09
4,051.00	5.40	246.70	4,043.21	-40.50	-41.98	-166.20	171.42	255.83	467,927.02	818,142.80
4,147.00	6.20	242.90	4,138.72	-44.57	-46.13	-174.96	180.94	255.23	467,922.87	818,134.04
4,243.00	7.20	236.80	4,234.07	-50.14	-51.78	-184.61	191.73	254.33	467,917.22	818,124.39
4,338.00	7.00	235.40	4,328.34	-56.60	-58.33	-194.36	202.92	253.30	467,910.67	818,114.64
4,434.00	5.50	259.80	4,423.78	-60.65	-62.47	-203.70	213.06	252.95	467,906.53	818,105.30
4,529.00	4.20	279.50	4,518.45	-60.81	-62.70	-211.61	220.71	253.50	467,906.30	818,097.39
4,624.00	2.20	295.50	4,613.30	-59.41	-61.34	-216.69	225.21	254.19	467,907.66	818,092.31
4,720.00	3.20	260.90	4,709.19	-59.00	-60.97	-221.00	229.26	254.58	467,908.03	818,088.00
4,815.00	5.80	254.10	4,803.89	-60.67	-62.70	-228.24	236.69	254.64	467,906.30	818,080.76
4,911.00	6.40	254.20	4,899.35	-63.37	-65.49	-238.05	246.89	254.62	467,903.51	818,070.95



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Florence State 23-23S-34E AR
Well: No. 133H
Wellbore: OH
Design: MWD-159'-16161', PTB: 16226'

Local Co-ordinate Reference: Well No. 133H
TVD Reference: Well @ 3410.50usft
MD Reference: Well @ 3410.50usft
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)
5,006.00	5.70	257.00	4,993.82	-65.78	-67.99	-247.74	256.90	254.65	467,901.01	818,061.26
5,102.00	5.00	256.00	5,089.40	-67.79	-70.08	-256.45	265.85	254.72	467,898.92	818,052.55
5,164.00	4.70	255.50	5,151.18	-69.04	-71.37	-261.53	271.09	254.74	467,897.63	818,047.47
5,284.00	3.80	251.80	5,270.85	-71.43	-73.84	-270.06	279.98	254.71	467,895.16	818,038.94
5,379.00	3.90	252.30	5,365.63	-73.34	-75.80	-276.13	286.35	254.65	467,893.20	818,032.87
5,475.00	3.90	251.20	5,461.41	-75.33	-77.85	-282.33	292.87	254.58	467,891.15	818,026.67
5,571.00	3.80	247.60	5,557.19	-77.54	-80.11	-288.37	299.29	254.47	467,888.89	818,020.63
5,666.00	5.40	257.10	5,651.89	-79.68	-82.31	-295.63	306.88	254.44	467,886.69	818,013.37
5,762.00	5.60	258.70	5,747.45	-81.52	-84.24	-304.63	316.06	254.54	467,884.76	818,004.37
5,857.00	5.40	258.50	5,842.01	-83.24	-86.04	-313.56	325.15	254.66	467,882.96	817,995.44
5,953.00	5.20	258.10	5,937.60	-84.96	-87.84	-322.24	334.00	254.75	467,881.16	817,986.76
6,048.00	5.10	256.80	6,032.21	-86.74	-89.69	-330.56	342.51	254.82	467,879.31	817,978.44
6,144.00	4.90	257.60	6,127.85	-88.52	-91.54	-338.72	350.87	254.88	467,877.46	817,970.28
6,239.00	4.80	256.50	6,222.51	-90.25	-93.34	-346.55	358.90	254.93	467,875.66	817,962.45
6,334.00	4.90	254.90	6,317.17	-92.17	-95.33	-354.33	366.93	254.94	467,873.67	817,954.67
6,430.00	5.00	253.80	6,412.81	-94.33	-97.56	-362.31	375.21	254.93	467,871.44	817,946.69
6,525.00	4.90	252.20	6,507.46	-96.66	-99.96	-370.15	383.40	254.89	467,869.04	817,938.85
6,621.00	4.70	252.00	6,603.12	-99.06	-102.42	-377.79	391.43	254.83	467,866.58	817,931.21
6,716.00	4.60	252.80	6,697.81	-101.32	-104.75	-385.13	399.12	254.78	467,864.25	817,923.87
6,812.00	4.50	253.60	6,793.50	-103.46	-106.96	-392.42	406.74	254.75	467,862.04	817,916.58
6,907.00	4.50	252.70	6,888.21	-105.56	-109.12	-399.55	414.19	254.73	467,859.88	817,909.45
7,003.00	4.30	253.60	6,983.93	-107.63	-111.25	-406.60	421.55	254.70	467,857.75	817,902.40
7,098.00	4.40	250.90	7,078.65	-109.77	-113.45	-413.46	428.75	254.66	467,855.55	817,895.54
7,194.00	4.50	250.40	7,174.37	-112.17	-115.92	-420.49	436.18	254.59	467,853.08	817,888.51
7,289.00	5.40	262.50	7,269.01	-113.93	-117.75	-428.43	444.32	254.63	467,851.25	817,880.57
7,385.00	5.60	262.80	7,364.57	-115.03	-118.93	-437.56	453.43	254.79	467,850.07	817,871.44
7,481.00	5.40	262.40	7,460.13	-116.13	-120.11	-446.68	462.55	254.95	467,848.89	817,862.32



ProDirectional Survey Report



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Site: Florence State 23-23S-34E AR
Well: No. 133H
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)	
7,576.00	5.10	263.20	7,554.73	-117.15	-121.20	-455.31	471.16	255.09	467,847.80	817,853.69	
7,672.00	5.20	261.90	7,650.34	-118.19	-122.32	-463.85	479.71	255.23	467,846.68	817,845.15	
7,768.00	5.10	262.70	7,745.95	-119.27	-123.48	-472.39	488.26	255.35	467,845.52	817,836.61	
7,863.00	4.70	263.30	7,840.61	-120.19	-124.47	-480.44	496.31	255.48	467,844.53	817,828.56	
7,959.00	4.40	262.40	7,936.30	-121.07	-125.41	-488.00	503.86	255.59	467,843.59	817,821.00	
8,054.00	4.10	265.40	8,031.04	-121.76	-126.17	-495.00	510.82	255.70	467,842.83	817,814.00	
8,150.00	3.80	270.50	8,126.82	-121.95	-126.42	-501.60	517.28	255.85	467,842.58	817,807.40	
8,246.00	5.40	253.80	8,222.51	-123.11	-127.65	-509.12	524.88	255.92	467,841.35	817,799.88	
8,341.00	5.50	252.30	8,317.08	-125.67	-130.28	-517.75	533.89	255.88	467,838.72	817,791.25	
8,436.00	5.10	253.40	8,411.67	-128.18	-132.87	-526.13	542.65	255.83	467,836.13	817,782.87	
8,532.00	4.80	256.60	8,507.31	-130.26	-135.02	-534.13	550.93	255.81	467,833.98	817,774.87	
8,627.00	4.60	258.00	8,601.99	-131.91	-136.73	-541.72	558.71	255.83	467,832.27	817,767.28	
8,723.00	4.60	257.30	8,697.68	-133.49	-138.38	-549.24	566.41	255.86	467,830.62	817,759.76	
8,819.00	2.20	274.40	8,793.51	-134.14	-139.09	-554.84	572.00	255.93	467,829.91	817,754.16	
8,914.00	1.00	12.50	8,888.48	-133.18	-138.14	-556.48	573.36	256.06	467,830.86	817,752.52	
9,010.00	1.00	17.20	8,984.47	-131.56	-136.52	-556.05	572.56	256.21	467,832.48	817,752.95	
9,106.00	1.10	9.10	9,080.45	-129.86	-134.81	-555.65	571.77	256.36	467,834.19	817,753.35	
9,200.00	0.80	12.70	9,174.44	-128.33	-133.28	-555.37	571.13	256.51	467,835.72	817,753.63	
9,297.00	0.80	358.40	9,271.43	-126.99	-131.94	-555.24	570.70	256.63	467,837.06	817,753.76	
9,393.00	0.70	335.10	9,367.42	-125.79	-130.74	-555.50	570.68	256.76	467,838.26	817,753.50	
9,488.00	0.80	331.30	9,462.42	-124.67	-129.63	-556.06	570.97	256.88	467,839.37	817,752.94	
9,584.00	1.60	330.40	9,558.39	-122.91	-127.88	-557.05	571.54	257.07	467,841.12	817,751.95	
9,680.00	2.80	315.50	9,654.32	-120.05	-125.04	-559.35	573.16	257.40	467,843.96	817,749.65	
9,775.00	1.50	309.60	9,749.25	-117.58	-122.59	-561.94	575.15	257.69	467,846.41	817,747.06	
9,871.00	1.30	285.20	9,845.23	-116.48	-121.50	-563.96	576.90	257.84	467,847.50	817,745.04	
9,966.00	1.50	282.70	9,940.20	-115.90	-120.95	-566.21	578.98	257.94	467,848.05	817,742.79	
10,062.00	1.60	270.30	10,036.16	-115.60	-120.66	-568.78	581.43	258.02	467,848.34	817,740.22	



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Florence State 23-23S-34E AR
Well: No. 133H
Wellbore: OH
Design: MWD-159'-16161', PTB: 16226'

Local Co-ordinate Reference: Well No. 133H
TVD Reference: Well @ 3410.50usft
MD Reference: Well @ 3410.50usft
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)
10,157.00	1.60	269.80	10,131.12	-115.57	-120.66	-571.43	584.03	258.08	467,848.34	817,737.57
10,253.00	2.10	266.10	10,227.07	-115.67	-120.79	-574.52	587.08	258.13	467,848.21	817,734.48
10,349.00	2.40	278.50	10,323.00	-115.46	-120.61	-578.27	590.71	258.22	467,848.39	817,730.73
10,445.00	2.60	292.30	10,418.91	-114.30	-119.49	-582.27	594.40	258.40	467,849.51	817,726.73
10,540.00	3.30	310.00	10,513.79	-111.69	-116.91	-586.36	597.90	258.72	467,852.09	817,722.64
10,636.00	2.70	316.80	10,609.65	-108.23	-113.49	-590.02	600.84	259.11	467,855.51	817,718.98
10,713.00	1.90	309.00	10,686.59	-106.08	-111.36	-592.26	602.63	259.35	467,857.64	817,716.74
10,738.00	1.00	295.60	10,711.58	-105.73	-111.01	-592.77	603.08	259.39	467,857.99	817,716.23
10,834.00	7.00	18.60	10,807.34	-99.82	-105.09	-591.66	600.92	259.93	467,863.91	817,717.34
10,881.00	15.40	14.30	10,853.40	-91.07	-96.32	-589.20	597.02	260.72	467,872.68	817,719.80
10,929.00	20.90	7.10	10,899.00	-76.41	-81.63	-586.57	592.22	262.08	467,887.37	817,722.43
10,961.00	23.80	3.90	10,928.59	-64.31	-69.52	-585.42	589.54	263.23	467,899.48	817,723.58
10,993.00	26.50	2.80	10,957.56	-50.74	-55.95	-584.64	587.31	264.53	467,913.05	817,724.36
11,025.00	28.50	2.50	10,985.94	-35.99	-41.19	-583.95	585.40	265.97	467,927.81	817,725.05
11,057.00	31.50	2.30	11,013.65	-20.01	-25.20	-583.29	583.83	267.53	467,943.80	817,725.71
11,088.00	34.40	2.40	11,039.66	-3.17	-8.36	-582.59	582.65	269.18	467,960.64	817,726.41
11,120.00	36.00	2.40	11,065.81	15.25	10.07	-581.82	581.91	270.99	467,979.07	817,727.18
11,152.00	35.80	2.00	11,091.73	33.99	28.82	-581.10	581.81	272.84	467,997.82	817,727.90
11,184.00	36.80	2.20	11,117.52	52.92	47.75	-580.41	582.37	274.70	468,016.75	817,728.59
11,216.00	39.30	2.70	11,142.72	72.61	67.46	-579.56	583.47	276.64	468,036.46	817,729.44
11,247.00	42.50	2.70	11,166.15	92.87	87.73	-578.60	585.22	278.62	468,056.73	817,730.40
11,279.00	44.00	2.50	11,189.45	114.77	109.63	-577.61	587.92	280.75	468,078.63	817,731.39
11,311.00	44.60	2.20	11,212.35	137.09	131.96	-576.69	591.60	282.89	468,100.96	817,732.31
11,343.00	46.90	1.30	11,234.68	159.99	154.87	-576.00	596.45	285.05	468,123.87	817,733.00
11,374.00	50.50	0.00	11,255.14	183.27	178.15	-575.74	602.67	287.19	468,147.15	817,733.26
11,406.00	52.90	358.80	11,274.97	208.38	203.26	-576.01	610.82	289.44	468,172.26	817,732.99
11,453.00	58.70	358.60	11,301.38	247.23	242.11	-576.89	625.64	292.77	468,211.11	817,732.11



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)
11,502.00	64.00	358.60	11,324.86	290.21	285.08	-577.94	644.43	296.26	468,254.08	817,731.06
11,597.00	73.80	358.00	11,359.02	378.72	373.56	-580.58	690.38	302.76	468,342.56	817,728.42
11,693.00	89.70	359.10	11,372.75	473.40	468.23	-582.96	747.72	308.77	468,437.23	817,726.04
11,794.00	92.90	0.50	11,370.46	574.36	569.19	-583.31	815.01	314.30	468,538.19	817,725.69
11,890.00	93.60	2.60	11,365.02	670.14	665.00	-580.72	882.87	318.87	468,634.00	817,728.28
11,986.00	93.50	3.50	11,359.07	765.77	760.68	-575.62	953.92	322.88	468,729.68	817,733.38
12,081.00	90.60	3.50	11,355.68	860.47	855.43	-569.83	1,027.84	326.33	468,824.43	817,739.17
12,176.00	91.20	2.80	11,354.18	955.26	950.27	-564.61	1,105.35	329.28	468,919.27	817,744.39
12,272.00	91.40	1.50	11,352.01	1,051.13	1,046.18	-561.01	1,187.10	331.80	469,015.18	817,747.99
12,367.00	90.00	0.00	11,350.85	1,146.09	1,141.16	-559.77	1,271.05	333.87	469,110.16	817,749.23
12,463.00	89.80	359.00	11,351.01	1,242.09	1,237.15	-560.60	1,358.24	335.62	469,206.15	817,748.40
12,559.00	92.00	358.70	11,349.51	1,338.07	1,333.11	-562.53	1,446.94	337.12	469,302.11	817,746.47
12,654.00	90.30	359.70	11,347.60	1,433.04	1,428.08	-563.86	1,535.37	338.45	469,397.08	817,745.14
12,750.00	86.50	0.40	11,350.28	1,528.98	1,524.03	-563.77	1,624.96	339.70	469,493.03	817,745.23
12,845.00	89.30	1.00	11,353.76	1,623.89	1,618.94	-562.61	1,713.92	340.84	469,587.94	817,746.39
12,941.00	88.30	359.50	11,355.77	1,719.85	1,714.92	-562.19	1,804.72	341.85	469,683.92	817,746.81
13,036.00	89.50	359.00	11,357.59	1,814.83	1,809.89	-563.44	1,895.56	342.71	469,778.89	817,745.56
13,132.00	91.20	359.60	11,357.01	1,910.83	1,905.88	-564.61	1,987.75	343.50	469,874.88	817,744.39
13,226.00	91.30	359.70	11,354.96	2,004.81	1,999.85	-565.18	2,078.18	344.22	469,968.85	817,743.82
13,322.00	90.70	358.60	11,353.28	2,100.79	2,095.83	-566.61	2,171.07	344.87	470,064.83	817,742.39
13,418.00	90.20	357.70	11,352.53	2,196.76	2,191.77	-569.71	2,264.60	345.43	470,160.77	817,739.29
13,513.00	91.90	357.80	11,350.79	2,291.69	2,286.68	-573.44	2,357.48	345.92	470,255.68	817,735.56
13,609.00	93.40	358.60	11,346.35	2,387.56	2,382.53	-576.45	2,451.27	346.40	470,351.53	817,732.55
13,704.00	91.30	0.00	11,342.45	2,482.47	2,477.43	-577.61	2,543.87	346.88	470,446.43	817,731.39
13,800.00	91.70	0.50	11,339.94	2,578.43	2,573.40	-577.19	2,637.33	347.36	470,542.40	817,731.81
13,895.00	86.40	358.90	11,341.51	2,673.38	2,668.35	-577.68	2,730.16	347.78	470,637.35	817,731.32
13,991.00	86.70	359.00	11,347.29	2,769.20	2,764.16	-579.44	2,824.24	348.16	470,733.16	817,729.56



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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)
14,086.00	88.00	359.80	11,351.68	2,864.10	2,859.05	-580.43	2,917.37	348.52	470,828.05	817,728.57
14,182.00	89.90	0.60	11,353.44	2,960.07	2,955.02	-580.10	3,011.43	348.89	470,924.02	817,728.90
14,278.00	91.30	1.20	11,352.44	3,056.03	3,051.00	-578.59	3,105.38	349.26	471,020.00	817,730.41
14,373.00	91.50	0.20	11,350.12	3,150.98	3,145.97	-577.43	3,198.52	349.60	471,114.97	817,731.57
14,469.00	93.00	0.80	11,346.35	3,246.89	3,241.89	-576.59	3,292.76	349.91	471,210.89	817,732.41
14,564.00	92.30	0.90	11,341.96	3,341.76	3,336.77	-575.19	3,385.99	350.22	471,305.77	817,733.81
14,660.00	88.40	359.80	11,341.37	3,437.73	3,432.75	-574.60	3,480.51	350.50	471,401.75	817,734.40
14,756.00	88.80	359.50	11,343.71	3,533.70	3,528.72	-575.19	3,575.29	350.74	471,497.72	817,733.81
14,851.00	90.40	0.30	11,344.38	3,628.69	3,623.71	-575.35	3,669.10	350.98	471,592.71	817,733.65
14,947.00	91.90	0.90	11,342.45	3,724.65	3,719.69	-574.35	3,763.77	351.22	471,688.69	817,734.65
15,042.00	91.70	358.60	11,339.47	3,819.60	3,814.63	-574.76	3,857.69	351.43	471,783.63	817,734.24
15,138.00	94.20	358.30	11,334.53	3,915.45	3,910.46	-577.35	3,952.85	351.60	471,879.46	817,731.65
15,233.00	94.20	358.10	11,327.57	4,010.17	4,005.16	-580.33	4,046.98	351.76	471,974.16	817,728.67
15,329.00	90.90	357.80	11,323.30	4,106.02	4,100.99	-583.76	4,142.33	351.90	472,069.99	817,725.24
15,425.00	92.80	357.70	11,320.20	4,201.92	4,196.86	-587.53	4,237.79	352.03	472,165.86	817,721.47
15,520.00	88.60	357.00	11,319.04	4,296.83	4,291.73	-591.92	4,332.36	352.15	472,260.73	817,717.08
15,616.00	88.30	356.50	11,321.64	4,392.68	4,387.54	-597.36	4,428.02	352.25	472,356.54	817,711.64
15,712.00	90.00	356.80	11,323.06	4,488.55	4,483.36	-602.97	4,523.73	352.34	472,452.36	817,706.03
15,807.00	91.80	357.40	11,321.57	4,583.45	4,578.23	-607.77	4,618.39	352.44	472,547.23	817,701.23
15,903.00	93.30	357.60	11,317.30	4,679.30	4,674.04	-611.96	4,713.93	352.54	472,643.04	817,697.04
15,998.00	94.90	357.60	11,310.50	4,774.00	4,768.71	-615.93	4,808.32	352.64	472,737.71	817,693.07
16,094.00	97.30	358.20	11,300.30	4,869.41	4,864.09	-619.42	4,903.37	352.74	472,833.09	817,689.58
16,161.00	98.90	358.50	11,290.86	4,935.73	4,930.39	-621.33	4,969.39	352.82	472,899.39	817,687.67
Last Survey: 16161' MD										
16,226.00	98.90	358.50	11,280.81	4,999.94	4,994.59	-623.01	5,033.30	352.89	472,963.59	817,685.99
PTB: 16226' MD										



ProDirectional
Survey Report



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Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
159.00	159.00	0.00	0.00	Pro MWD First Survey: 159' MD
16,161.00	11,290.86	4,930.39	-621.33	Last Survey: 16161' MD
16,226.00	11,280.81	4,994.59	-623.01	PTB: 16226' MD