



HOBBS OCD
SEP 11 2019
RECEIVED

Irvin Wall State Com No. 134H

Lea County, NM

30-025-45432

April 04, 2019

Job No. LNM5201719

 **ORIGINAL**

Certified Report



PRODIRECTIONAL

Survey Certification Letter

April 04, 2019



Operator Name: Matador Resources
Well Name: Irvin Wall State Com No. 134H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 810
Job Number: LNM5201719

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	157' MD – 16,387' MD	16,456' MD	02/23/19 – 03/10/19	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



Matador Resources

**Lea County, NM
Irvin Wall State Com
No. 134H
OH**

Survey: ProDirectional

Survey Report

04 April, 2019





ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Irvin Wall State Com
Well: No. 134H
Wellbore: OH
Design: MWD-157'-16387', PTB: 16456'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3479.50usft
MD Reference: Well @ 3479.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	Irvin Wall State Com		
Site Position:		Northing:	457,652.00 usft
From:	Map	Easting:	834,901.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.254591
		Longitude:	-103.383703
		Grid Convergence:	0.51 "

Well	No. 134H					
Well Position	+N/-S	0.00 usft	Northing:	457,652.00 usft	Latitude:	32.254591
	+E/-W	0.00 usft	Easting:	834,901.00 usft	Longitude:	-103.383703
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,451.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/20/2019	6.67	59.97	47,983.90

Design	MWD-157'-16387', PTB: 16456'				
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	359.44	

Survey Program		Date	4/4/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
157.00	16,456.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM	



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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	457,652.00	834,901.00
157.00	0.80	323.90	156.99	0.89	0.89	-0.65	1.10	323.90	457,652.89	834,900.35
Pro MWD First Survey: 157' MD										
249.00	0.70	321.30	248.99	1.86	1.84	-1.38	2.30	323.26	457,653.84	834,899.62
341.00	0.20	97.70	340.99	2.28	2.26	-1.57	2.75	325.25	457,654.26	834,899.43
433.00	0.70	161.50	432.98	1.72	1.71	-1.23	2.10	324.20	457,653.71	834,899.77
524.00	1.00	192.20	523.97	0.41	0.40	-1.22	1.29	288.23	457,652.40	834,899.78
616.00	1.60	194.40	615.95	-1.61	-1.63	-1.71	2.36	226.45	457,650.37	834,899.29
711.00	3.10	190.50	710.87	-5.41	-5.44	-2.51	5.99	204.77	457,646.56	834,898.49
807.00	4.00	183.10	806.68	-11.30	-11.33	-3.16	11.77	195.59	457,640.67	834,897.84
902.00	4.50	169.70	901.42	-18.28	-18.31	-2.68	18.50	188.32	457,633.69	834,898.32
986.00	5.10	165.10	985.13	-25.15	-25.16	-1.13	25.18	182.56	457,626.84	834,899.87
1,085.00	5.70	167.40	1,083.69	-34.22	-34.21	1.08	34.23	178.20	457,617.79	834,902.08
1,180.00	5.30	157.50	1,178.25	-42.90	-42.87	3.79	43.03	174.95	457,609.13	834,904.79
1,275.00	5.10	155.60	1,272.86	-50.83	-50.77	7.21	51.28	171.92	457,601.23	834,908.21
1,371.00	5.10	143.30	1,368.48	-58.18	-58.07	11.52	59.20	168.78	457,593.93	834,912.52
1,466.00	5.40	140.80	1,463.09	-65.08	-64.92	16.87	67.08	165.43	457,587.08	834,917.87
1,560.00	4.90	124.60	1,556.71	-70.85	-70.63	22.97	74.27	161.98	457,581.37	834,923.97
1,656.00	4.80	116.40	1,652.37	-75.03	-74.74	29.94	80.52	158.17	457,577.26	834,930.94
1,751.00	4.30	117.50	1,747.07	-78.51	-78.16	36.66	86.33	154.87	457,573.84	834,937.66
1,846.00	3.70	104.20	1,841.84	-80.97	-80.55	42.79	91.21	152.02	457,571.45	834,943.79
1,941.00	3.70	100.50	1,936.64	-82.34	-81.86	48.78	95.29	149.21	457,570.14	834,949.78
2,037.00	3.30	101.20	2,032.46	-83.49	-82.96	54.54	99.28	146.68	457,569.04	834,955.54
2,132.00	3.00	99.90	2,127.32	-84.50	-83.92	59.67	102.97	144.59	457,568.08	834,960.67
2,227.00	2.90	96.70	2,222.19	-85.26	-84.63	64.50	106.41	142.69	457,567.37	834,965.50
2,322.00	2.50	94.80	2,317.09	-85.75	-85.08	68.95	109.52	140.98	457,566.92	834,969.95
2,417.00	2.10	92.70	2,412.01	-86.05	-85.34	72.76	112.14	139.55	457,566.66	834,973.76



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2,512.00	1.90	89.50	2,506.95	-86.15	-85.41	76.07	114.37	138.31	457,566.59	834,977.07
2,607.00	3.80	92.60	2,601.83	-86.32	-85.54	80.79	117.66	136.63	457,566.46	834,981.79
2,702.00	5.40	93.80	2,696.52	-86.84	-85.98	88.40	123.31	134.20	457,566.02	834,989.40
2,797.00	5.70	92.40	2,791.08	-87.42	-86.47	97.57	130.37	131.55	457,565.53	834,998.57
2,893.00	5.00	103.40	2,886.66	-88.68	-87.64	106.40	137.85	129.48	457,564.36	835,007.40
2,987.00	5.00	106.80	2,980.30	-90.89	-89.77	114.31	145.35	128.14	457,562.23	835,015.31
3,082.00	4.10	113.70	3,075.00	-93.52	-92.33	121.38	152.51	127.26	457,559.67	835,022.38
3,177.00	4.30	110.20	3,169.75	-96.17	-94.93	127.83	159.23	126.60	457,557.07	835,028.83
3,271.00	4.60	105.20	3,263.46	-98.45	-97.13	134.78	166.13	125.78	457,554.87	835,035.78
3,367.00	6.20	105.10	3,359.04	-100.89	-99.49	143.50	174.62	124.74	457,552.51	835,044.50
3,462.00	6.10	113.70	3,453.49	-104.35	-102.86	153.07	184.42	123.90	457,549.14	835,054.07
3,557.00	5.00	130.60	3,548.05	-109.15	-107.58	160.84	193.50	123.78	457,544.42	835,061.84
3,652.00	5.60	135.50	3,642.64	-115.21	-113.58	167.23	202.16	124.18	457,538.42	835,068.23
3,747.00	4.40	105.70	3,737.30	-119.57	-117.88	173.99	210.16	124.12	457,534.12	835,074.99
3,842.00	4.10	89.60	3,832.04	-120.60	-118.84	180.90	216.44	123.30	457,533.16	835,081.90
3,937.00	2.90	100.10	3,926.86	-121.05	-119.24	186.66	221.49	122.57	457,532.76	835,087.66
4,032.00	2.30	103.60	4,021.76	-121.97	-120.11	190.88	225.52	122.18	457,531.89	835,091.88
4,127.00	2.10	99.00	4,116.69	-122.72	-120.83	194.45	228.93	121.86	457,531.17	835,095.45
4,223.00	2.00	88.70	4,212.63	-122.99	-121.06	197.86	231.96	121.46	457,530.94	835,098.86
4,318.00	2.20	79.30	4,307.57	-122.65	-120.69	201.31	234.72	120.94	457,531.31	835,102.31
4,413.00	2.40	71.70	4,402.49	-121.72	-119.72	204.99	237.39	120.29	457,532.28	835,105.99
4,508.00	2.80	61.40	4,497.39	-120.03	-117.99	208.92	239.93	119.46	457,534.01	835,109.92
4,603.00	3.30	52.70	4,592.26	-117.30	-115.22	213.13	242.28	118.40	457,536.78	835,114.13
4,699.00	2.70	54.60	4,688.13	-114.35	-112.24	217.17	244.46	117.33	457,539.76	835,118.17
4,794.00	2.10	64.10	4,783.04	-112.33	-110.18	220.56	246.55	116.54	457,541.82	835,121.56
4,889.00	1.60	95.00	4,878.00	-111.71	-109.54	223.45	248.85	116.11	457,542.46	835,124.45
4,983.00	2.20	105.70	4,971.94	-112.35	-110.14	226.49	251.85	115.93	457,541.86	835,127.49



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5,078.00	2.60	108.00	5,066.86	-113.54	-111.30	230.30	255.78	115.79	457,540.70	835,131.30
5,173.00	2.20	109.50	5,161.78	-114.85	-112.57	234.06	259.73	115.69	457,539.43	835,135.06
5,269.00	2.70	111.20	5,257.69	-116.32	-114.01	237.91	263.81	115.60	457,537.99	835,138.91
5,363.00	3.20	113.40	5,351.56	-118.21	-115.85	242.38	268.64	115.55	457,536.15	835,143.38
5,387.00	3.10	113.50	5,375.53	-118.75	-116.37	243.59	269.96	115.54	457,535.63	835,144.59
5,470.00	3.10	121.50	5,458.41	-120.85	-118.44	247.56	274.44	115.57	457,533.56	835,148.56
5,566.00	3.30	123.90	5,554.26	-123.80	-121.34	252.07	279.75	115.70	457,530.66	835,153.07
5,661.00	3.20	129.80	5,649.10	-127.06	-124.56	256.38	285.03	115.91	457,527.44	835,157.38
5,757.00	3.00	131.00	5,744.96	-130.46	-127.92	260.33	290.06	116.17	457,524.08	835,161.33
5,852.00	4.00	119.10	5,839.79	-133.75	-131.17	265.10	295.78	116.33	457,520.83	835,166.10
5,948.00	4.30	119.80	5,935.54	-137.23	-134.58	271.15	302.71	116.40	457,517.42	835,172.15
6,044.00	4.30	122.10	6,031.27	-140.99	-138.28	277.32	309.89	116.50	457,513.72	835,178.32
6,139.00	4.30	122.90	6,126.00	-144.87	-142.11	283.33	316.97	116.64	457,509.89	835,184.33
6,235.00	4.00	121.20	6,221.75	-148.62	-145.80	289.21	323.89	116.75	457,506.20	835,190.21
6,330.00	3.90	119.20	6,316.52	-151.97	-149.09	294.87	330.42	116.82	457,502.91	835,195.87
6,426.00	3.80	119.20	6,412.30	-155.17	-152.24	300.50	336.86	116.87	457,499.76	835,201.50
6,522.00	4.00	121.60	6,508.08	-158.53	-155.54	306.12	343.37	116.94	457,496.46	835,207.12
6,617.00	3.90	120.10	6,602.86	-161.94	-158.90	311.74	349.90	117.01	457,493.10	835,212.74
6,713.00	4.00	121.00	6,698.63	-165.36	-162.26	317.44	356.50	117.07	457,489.74	835,218.44
6,808.00	4.00	120.90	6,793.40	-168.82	-165.67	323.12	363.12	117.15	457,486.33	835,224.12
6,904.00	4.00	118.40	6,889.16	-172.19	-168.98	328.94	369.80	117.19	457,483.02	835,229.94
6,999.00	3.90	119.70	6,983.94	-175.42	-172.16	334.66	376.34	117.22	457,479.84	835,235.66
7,095.00	4.00	120.90	7,079.71	-178.81	-175.50	340.37	382.95	117.28	457,476.50	835,241.37
7,190.00	4.00	118.40	7,174.48	-182.15	-178.77	346.13	389.57	117.32	457,473.23	835,247.13
7,286.00	4.00	118.20	7,270.24	-185.38	-181.95	352.02	396.26	117.33	457,470.05	835,253.02
7,381.00	4.00	118.10	7,365.01	-188.56	-185.07	357.87	402.89	117.35	457,466.93	835,258.87
7,476.00	3.70	119.70	7,459.80	-191.70	-188.15	363.45	409.27	117.37	457,463.85	835,264.45



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7,572.00	3.70	119.10	7,555.60	-194.79	-191.20	368.85	415.46	117.40	457,460.80	835,269.85
7,667.00	3.40	122.30	7,650.42	-197.84	-194.19	373.91	421.33	117.45	457,457.81	835,274.91
7,763.00	3.10	125.90	7,746.26	-200.92	-197.23	378.42	426.73	117.53	457,454.77	835,279.42
7,858.00	3.00	127.20	7,841.13	-203.97	-200.24	382.48	431.72	117.63	457,451.76	835,283.48
7,953.00	2.90	127.50	7,936.00	-206.98	-203.21	386.36	436.54	117.74	457,448.79	835,287.36
8,049.00	2.70	133.30	8,031.89	-210.04	-206.24	389.94	441.12	117.87	457,445.76	835,290.94
8,144.00	2.70	137.00	8,126.78	-213.24	-209.41	393.09	445.39	118.05	457,442.59	835,294.09
8,240.00	2.70	140.10	8,222.67	-216.66	-212.80	396.08	449.63	118.25	457,439.20	835,297.08
8,335.00	2.40	142.70	8,317.58	-219.98	-216.10	398.72	453.52	118.46	457,435.90	835,299.72
8,431.00	1.80	136.50	8,413.52	-222.70	-218.79	400.98	456.79	118.62	457,433.21	835,301.98
8,526.00	1.90	121.90	8,508.47	-224.64	-220.70	403.34	459.78	118.69	457,431.30	835,304.34
8,621.00	1.90	101.60	8,603.42	-225.81	-221.85	406.22	462.86	118.64	457,430.15	835,307.22
8,717.00	1.50	106.10	8,699.37	-226.51	-222.52	408.99	465.61	118.55	457,429.48	835,309.99
8,813.00	1.50	108.70	8,795.34	-227.28	-223.27	411.39	468.07	118.49	457,428.73	835,312.39
8,908.00	1.30	126.20	8,890.31	-228.34	-224.31	413.43	470.36	118.48	457,427.69	835,314.43
9,003.00	1.00	153.40	8,985.29	-229.73	-225.69	414.68	472.11	118.56	457,426.31	835,315.68
9,099.00	1.00	191.80	9,081.28	-231.30	-227.25	414.88	473.04	118.71	457,424.75	835,315.88
9,194.00	1.90	223.90	9,176.25	-233.23	-229.20	413.62	472.88	118.99	457,422.80	835,314.62
9,290.00	0.50	276.60	9,272.23	-234.32	-230.30	412.10	472.08	119.20	457,421.70	835,313.10
9,385.00	1.40	55.70	9,367.22	-233.62	-229.60	412.64	472.22	119.09	457,422.40	835,313.64
9,481.00	2.00	53.00	9,463.18	-231.97	-227.93	414.95	473.43	118.78	457,424.07	835,315.95
9,576.00	2.10	39.30	9,558.12	-229.65	-225.58	417.38	474.44	118.39	457,426.42	835,318.38
9,672.00	1.60	47.30	9,654.07	-227.40	-223.31	419.48	475.22	118.03	457,428.69	835,320.48
9,767.00	1.20	49.40	9,749.04	-225.87	-221.77	421.21	476.02	117.77	457,430.23	835,322.21
9,862.00	0.00	25.60	9,844.03	-225.23	-221.12	421.96	476.39	117.66	457,430.88	835,322.96
9,958.00	1.00	295.90	9,940.03	-224.86	-220.75	421.21	475.55	117.66	457,431.25	835,322.21
10,053.00	1.30	302.80	10,035.01	-223.90	-219.81	419.56	473.65	117.65	457,432.19	835,320.56



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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)
10,148.00	1.70	289.80	10,129.97	-222.82	-218.75	417.33	471.18	117.66	457,433.25	835,318.33
10,244.00	1.50	331.30	10,225.94	-221.21	-217.16	415.38	468.72	117.60	457,434.84	835,316.38
10,339.00	1.70	328.90	10,320.90	-218.90	-214.87	414.06	466.49	117.43	457,437.13	835,315.06
10,435.00	3.00	319.00	10,416.82	-215.76	-211.75	411.67	462.94	117.22	457,440.25	835,312.67
10,530.00	3.40	312.10	10,511.67	-211.96	-207.99	407.95	457.91	117.01	457,444.01	835,308.95
10,626.00	3.60	304.50	10,607.49	-208.30	-204.37	403.36	452.18	116.87	457,447.63	835,304.36
10,721.00	3.00	285.80	10,702.34	-205.89	-202.00	398.51	446.78	116.88	457,450.00	835,299.51
10,817.00	3.40	281.80	10,798.19	-204.57	-200.74	393.30	441.57	117.04	457,451.26	835,294.30
10,885.00	3.30	276.20	10,866.07	-203.91	-200.11	389.38	437.79	117.20	457,451.89	835,290.38
10,920.00	3.30	274.90	10,901.02	-203.70	-199.92	387.38	435.92	117.30	457,452.08	835,288.38
11,015.00	8.70	331.80	10,995.52	-197.06	-193.34	381.25	427.47	116.89	457,458.66	835,282.25
11,047.00	14.70	345.60	11,026.85	-190.97	-187.27	379.09	422.83	116.29	457,464.73	835,280.09
11,079.00	20.20	348.70	11,057.37	-181.59	-177.91	377.00	416.87	115.26	457,474.09	835,278.00
11,111.00	23.60	346.60	11,087.05	-169.91	-166.26	374.43	409.69	113.94	457,485.74	835,275.43
11,206.00	27.20	349.50	11,172.86	-129.97	-126.40	366.06	387.27	109.05	457,525.60	835,267.06
11,302.00	27.70	354.80	11,258.06	-86.11	-82.60	360.04	369.40	102.92	457,569.40	835,261.04
11,397.00	32.60	0.10	11,340.20	-38.48	-34.98	358.09	359.79	95.58	457,617.02	835,259.09
11,493.00	42.40	358.00	11,416.27	19.88	23.37	357.00	357.76	86.25	457,675.37	835,258.00
11,588.00	46.50	356.50	11,484.08	86.34	89.80	353.78	365.00	75.76	457,741.80	835,254.78
11,683.00	57.20	5.60	11,542.75	160.76	164.24	355.58	391.68	65.21	457,816.24	835,256.58
11,779.00	64.50	7.20	11,589.48	243.92	247.50	364.96	440.96	55.86	457,899.50	835,265.96
11,874.00	72.70	7.60	11,624.12	331.44	335.13	376.35	503.94	48.32	457,987.13	835,277.35
11,969.00	84.10	4.30	11,643.19	423.74	427.53	385.92	575.95	42.07	458,079.53	835,286.92
12,074.00	90.10	358.70	11,648.51	528.45	532.27	388.65	659.06	36.14	458,184.27	835,289.65
12,170.00	90.40	0.30	11,648.09	624.44	628.26	387.81	738.32	31.69	458,280.26	835,288.81
12,265.00	89.40	2.20	11,648.25	719.39	723.24	389.89	821.63	28.33	458,375.24	835,290.89
12,361.00	88.10	3.10	11,650.35	815.21	819.11	394.32	909.08	25.71	458,471.11	835,295.32



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Irvin Wall State Com
Well: No. 134H
Wellbore: OH
Design: MWD-157'-16387', PTB: 16456'

Local Co-ordinate Reference: Well No. 134H
TVD Reference: Well @ 3479.50usft
MD Reference: Well @ 3479.50usft
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)
12,456.00	88.20	2.80	11,653.41	909.99	913.93	399.21	997.32	23.60	458,565.93	835,300.21
12,552.00	88.80	3.00	11,655.93	1,005.78	1,009.78	404.06	1,087.62	21.81	458,661.78	835,305.06
12,647.00	86.60	2.30	11,659.74	1,100.55	1,104.59	408.45	1,177.69	20.29	458,756.59	835,309.45
12,743.00	86.10	1.20	11,665.85	1,196.27	1,200.35	411.38	1,268.89	18.92	458,852.35	835,312.38
12,838.00	85.70	0.10	11,672.64	1,291.01	1,295.10	412.45	1,359.19	17.67	458,947.10	835,313.45
12,934.00	87.70	358.40	11,678.17	1,386.84	1,390.92	411.20	1,450.43	16.47	459,042.92	835,312.20
13,029.00	88.80	358.30	11,681.07	1,481.78	1,485.84	408.46	1,540.96	15.37	459,137.84	835,309.46
13,124.00	89.50	358.40	11,682.48	1,576.75	1,580.79	405.73	1,632.03	14.39	459,232.79	835,306.73
13,220.00	90.60	358.00	11,682.40	1,672.72	1,676.74	402.71	1,724.42	13.51	459,328.74	835,303.71
13,316.00	89.50	359.30	11,682.31	1,768.71	1,772.71	400.45	1,817.38	12.73	459,424.71	835,301.45
13,411.00	89.90	359.90	11,682.81	1,863.71	1,867.70	399.79	1,910.01	12.08	459,519.70	835,300.79
13,507.00	89.20	1.30	11,683.56	1,959.68	1,963.69	400.79	2,004.18	11.54	459,615.69	835,301.79
13,602.00	89.30	1.80	11,684.81	2,054.61	2,058.65	403.36	2,097.79	11.09	459,710.65	835,304.36
13,698.00	90.00	1.80	11,685.39	2,150.53	2,154.60	406.38	2,192.59	10.68	459,806.60	835,307.38
13,794.00	90.90	2.00	11,684.64	2,246.43	2,250.54	409.56	2,287.51	10.31	459,902.54	835,310.56
13,889.00	92.10	1.80	11,682.15	2,341.31	2,345.46	412.71	2,381.49	9.98	459,997.46	835,313.71
13,985.00	93.10	1.60	11,677.80	2,437.14	2,441.31	415.56	2,476.43	9.66	460,093.31	835,316.56
14,080.00	93.90	1.30	11,672.00	2,531.90	2,536.11	417.96	2,570.32	9.36	460,188.11	835,318.96
14,176.00	91.90	1.40	11,667.14	2,627.72	2,631.95	420.21	2,665.29	9.07	460,283.95	835,321.21
14,271.00	88.00	3.00	11,667.23	2,722.59	2,726.86	423.86	2,759.61	8.84	460,378.86	835,324.86
14,366.00	88.70	2.30	11,669.96	2,817.40	2,821.72	428.25	2,854.03	8.63	460,473.72	835,329.25
14,462.00	89.60	1.50	11,671.39	2,913.30	2,917.65	431.43	2,949.38	8.41	460,569.65	835,332.43
14,557.00	90.00	1.40	11,671.72	3,008.24	3,012.62	433.84	3,043.70	8.19	460,664.62	835,334.84
14,653.00	87.60	1.10	11,673.73	3,104.16	3,108.57	435.93	3,138.99	7.98	460,760.57	835,336.93
14,748.00	85.40	0.50	11,679.53	3,198.95	3,203.38	437.25	3,233.08	7.77	460,855.38	835,338.25
14,844.00	84.90	358.90	11,687.64	3,294.60	3,299.03	436.75	3,327.81	7.54	460,951.03	835,337.75
14,939.00	84.00	356.50	11,696.83	3,389.11	3,393.50	432.96	3,421.01	7.27	461,045.50	835,333.96



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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)
15,034.00	85.40	354.60	11,705.61	3,483.48	3,487.80	425.62	3,513.68	6.96	461,139.80	835,326.62
15,130.00	88.20	353.10	11,710.97	3,578.86	3,583.09	415.35	3,607.08	6.61	461,235.09	835,316.35
15,225.00	89.60	353.50	11,712.79	3,673.29	3,677.42	404.27	3,699.57	6.27	461,329.42	835,305.27
15,320.00	91.90	353.90	11,711.55	3,767.80	3,771.83	393.85	3,792.34	5.96	461,423.83	835,294.85
15,415.00	93.20	353.60	11,707.32	3,862.24	3,866.17	383.52	3,885.15	5.67	461,518.17	835,284.52
15,511.00	93.40	355.40	11,701.79	3,957.72	3,961.57	374.33	3,979.21	5.40	461,613.57	835,275.33
15,606.00	94.30	355.70	11,695.42	4,052.28	4,056.07	366.98	4,072.63	5.17	461,708.07	835,267.98
15,701.00	94.00	357.90	11,688.54	4,146.93	4,150.66	361.69	4,166.39	4.98	461,802.66	835,262.69
15,797.00	93.70	1.50	11,682.09	4,242.70	4,246.43	361.19	4,261.76	4.86	461,898.43	835,262.19
15,892.00	94.80	2.30	11,675.05	4,337.34	4,341.11	364.33	4,356.37	4.80	461,993.11	835,265.33
15,987.00	90.20	3.50	11,670.91	4,432.05	4,435.87	369.13	4,451.21	4.76	462,087.87	835,270.13
16,082.00	91.10	3.30	11,669.83	4,526.82	4,530.70	374.76	4,546.17	4.73	462,182.70	835,275.76
16,178.00	92.80	3.50	11,666.56	4,622.53	4,626.47	380.45	4,642.09	4.70	462,278.47	835,281.45
16,273.00	94.00	3.20	11,660.93	4,717.14	4,721.14	385.99	4,736.89	4.67	462,373.14	835,286.99
16,368.00	95.10	2.90	11,653.39	4,811.65	4,815.71	391.03	4,831.55	4.64	462,467.71	835,292.03
16,387.00	95.40	2.70	11,651.66	4,830.54	4,834.60	391.96	4,850.47	4.64	462,486.60	835,292.96
Last Survey: 16387' MD										
16,456.00	95.40	2.70	11,645.16	4,899.12	4,903.22	395.19	4,919.12	4.61	462,555.22	835,296.19
PTB: 16456' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
157.00	156.99	0.89	-0.65	Pro MWD First Survey: 157' MD
16,387.00	11,651.66	4,834.60	391.96	Last Survey: 16387' MD
16,456.00	11,645.16	4,903.22	395.19	PTB: 16456' MD