



HOBBS OCD
MAR 06 2020
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Biggers Fed Com No. 214H(Final)

Lea County, NM

October 15, 2019

Job No. LNM5513419

ORIGINAL

Certified Report



Matador Resources

**Lea County, NM
Biggers Fed Com
No. 214H
OH**

Survey: ProDirectional

Survey Report

15 October, 2019





Survey Certification Letter

October 15, 2019



Operator Name: Matador Resources
Well Name: Biggers Fed Com No. 214H
County/Parish: Lea County,
State: NM
Rig Name: Patterson 810
Job Number: LNM5513419

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	5,532' MD – 17,367' MD	17,435' MD	07/23/19 – 09/19/19	MWD-OWSG

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com



ProDirectional
Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 214H
Wellbore: OH
Design: MWD-155-17367', PTB: 17435'

Local Co-ordinate Reference: Well No. 214H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Project Lea County, NM (NAD83)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Biggers Fed Com

Site Position:	Map	Northing:	409,875.00 usft	Latitude:	32.123401
From:		Easting:	829,612.00 usft	Longitude:	-103.402148
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well No. 214H, LNM5513419

Well Position	+N/-S	0.00 usft	Northing:	409,846.00 usft	Latitude:	32.123321
	+E/-W	0.00 usft	Easting:	829,642.00 usft	Longitude:	-103.402052
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,332.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/25/2019	6.57	59.73	47,772.40

Design MWD-155-17367', PTB: 17435'

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	359.51	



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Survey Program		Date	10/15/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
155.00	5,071.00	Survey #1 (OH)	MWD+HDGM	OWSG MWD + HRGM	
5,168.00	5,449.00	Survey #2 (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro	
5,532.00	17,435.00	Survey #3 (OH)	MWD+HDGM	OWSG MWD + HRGM	

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	409,846.00	829,642.00
155.00	0.30	116.60	155.00	-0.18	-0.18	0.36	0.41	116.60	409,845.82	829,642.36
Pro MWD First Survey: 155' MD										
248.00	0.30	138.80	248.00	-0.48	-0.47	0.74	0.88	122.60	409,845.53	829,642.74
429.00	0.00	81.80	429.00	-0.84	-0.83	1.05	1.34	128.26	409,845.17	829,643.05
522.00	0.30	307.60	522.00	-0.69	-0.68	0.86	1.10	128.41	409,845.32	829,642.86
614.00	0.30	327.10	614.00	-0.34	-0.33	0.54	0.63	121.71	409,845.67	829,642.54
704.00	0.30	327.00	703.99	0.06	0.06	0.28	0.29	77.47	409,846.06	829,642.28
797.00	0.20	9.20	796.99	0.43	0.43	0.18	0.46	22.34	409,846.43	829,642.18
892.00	0.10	83.90	891.99	0.60	0.60	0.28	0.66	25.38	409,846.60	829,642.28
943.00	0.10	101.30	942.99	0.59	0.60	0.37	0.70	32.01	409,846.60	829,642.37
1,078.00	0.00	173.60	1,077.99	0.57	0.57	0.49	0.75	40.43	409,846.57	829,642.49
1,173.00	0.40	146.80	1,172.99	0.29	0.30	0.67	0.73	66.21	409,846.30	829,642.67
1,268.00	1.50	98.70	1,267.98	-0.19	-0.17	2.08	2.09	94.69	409,845.83	829,644.08
1,363.00	3.30	92.10	1,362.89	-0.51	-0.46	6.04	6.06	94.34	409,845.54	829,648.04
1,458.00	5.00	84.50	1,457.64	-0.27	-0.16	12.90	12.90	90.72	409,845.84	829,654.90
1,553.00	5.40	83.20	1,552.25	0.58	0.76	21.46	21.47	87.96	409,846.76	829,663.46
1,649.00	5.30	83.90	1,647.83	1.51	1.77	30.35	30.40	86.66	409,847.77	829,672.35
1,744.00	5.00	85.20	1,742.45	2.25	2.58	38.84	38.92	86.20	409,848.58	829,680.84
1,839.00	4.90	85.30	1,837.09	2.86	3.26	47.01	47.12	86.03	409,849.26	829,689.01
1,934.00	4.60	84.90	1,931.77	3.46	3.93	54.84	54.99	85.90	409,849.93	829,696.84



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2,029.00	4.50	85.40	2,026.47	4.04	4.57	62.35	62.52	85.81	409,850.57	829,704.35
2,124.00	4.20	86.00	2,121.19	4.52	5.11	69.54	69.73	85.80	409,851.11	829,711.54
2,219.00	4.10	83.80	2,215.94	5.07	5.72	76.39	76.60	85.72	409,851.72	829,718.39
2,314.00	4.00	84.60	2,310.71	5.69	6.40	83.06	83.31	85.59	409,852.40	829,725.06
2,409.00	3.90	84.60	2,405.48	6.25	7.02	89.58	89.85	85.52	409,853.02	829,731.58
2,504.00	4.80	81.80	2,500.21	7.06	7.89	96.73	97.05	85.34	409,853.89	829,738.73
2,600.00	5.30	82.00	2,595.83	8.18	9.08	105.09	105.48	85.06	409,855.08	829,747.09
2,694.00	5.20	80.90	2,689.44	9.38	10.35	113.60	114.07	84.79	409,856.35	829,755.60
2,789.00	5.10	78.80	2,784.06	10.81	11.86	121.99	122.57	84.45	409,857.86	829,763.99
2,884.00	5.80	81.20	2,878.63	12.29	13.41	130.88	131.56	84.15	409,859.41	829,772.88
2,979.00	6.20	86.70	2,973.11	13.24	14.44	140.74	141.48	84.14	409,860.44	829,782.74
3,074.00	5.80	87.40	3,067.59	13.66	14.95	150.66	151.40	84.33	409,860.95	829,792.66
3,169.00	5.70	86.40	3,162.11	14.10	15.47	160.16	160.91	84.48	409,861.47	829,802.16
3,264.00	5.60	83.50	3,256.65	14.84	16.29	169.48	170.26	84.51	409,862.29	829,811.48
3,359.00	5.70	90.40	3,351.19	15.25	16.78	178.80	179.58	84.64	409,862.78	829,820.80
3,455.00	5.90	87.90	3,446.69	15.31	16.93	188.50	189.26	84.87	409,862.93	829,830.50
3,550.00	6.20	93.10	3,541.17	15.13	16.83	198.50	199.21	85.15	409,862.83	829,840.50
3,645.00	6.50	92.70	3,635.58	14.51	16.30	208.99	209.63	85.54	409,862.30	829,850.99
3,740.00	6.20	90.20	3,730.00	14.15	16.03	219.49	220.08	85.82	409,862.03	829,861.49
3,835.00	6.00	94.60	3,824.46	13.65	15.61	229.57	230.10	86.11	409,861.61	829,871.57
3,930.00	5.60	97.10	3,918.98	12.59	14.64	239.12	239.57	86.50	409,860.64	829,881.12
4,026.00	5.10	95.60	4,014.56	11.52	13.64	248.02	248.39	86.85	409,859.64	829,890.02
4,121.00	4.50	95.90	4,109.22	10.66	12.85	255.93	256.25	87.13	409,858.85	829,897.93
4,216.00	4.00	96.90	4,203.96	9.82	12.07	262.92	263.20	87.37	409,858.07	829,904.92
4,311.00	4.20	95.20	4,298.72	9.05	11.35	269.68	269.92	87.59	409,857.35	829,911.68
4,406.00	4.20	93.00	4,393.46	8.49	10.86	276.62	276.83	87.75	409,856.86	829,918.62
4,501.00	4.00	92.90	4,488.22	8.08	10.51	283.40	283.59	87.88	409,856.51	829,925.40



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4,596.00	4.00	92.40	4,582.99	7.72	10.20	290.02	290.20	87.99	409,856.20	829,932.02
4,691.00	4.50	94.10	4,677.73	7.25	9.80	297.05	297.21	88.11	409,855.80	829,939.05
4,786.00	5.00	94.30	4,772.40	6.61	9.22	304.89	305.03	88.27	409,855.22	829,946.89
4,882.00	4.30	96.20	4,868.09	5.84	8.52	312.64	312.76	88.44	409,854.52	829,954.64
4,977.00	4.40	97.80	4,962.81	4.90	7.64	319.79	319.88	88.63	409,853.64	829,961.79
5,071.00	5.00	100.40	5,056.50	3.61	6.41	327.39	327.46	88.88	409,852.41	829,969.39
Last Survey: 5071' MD										
5,168.00	5.00	102.90	5,153.13	1.83	4.70	335.67	335.70	89.20	409,850.70	829,977.67
5,261.00	4.90	101.20	5,245.78	0.09	3.03	343.52	343.53	89.50	409,849.03	829,985.52
5,355.00	4.30	108.90	5,339.48	-1.90	1.10	350.79	350.79	89.82	409,847.10	829,992.79
5,449.00	4.00	104.20	5,433.23	-3.90	-0.84	357.30	357.30	90.13	409,845.16	829,999.30
5,532.00	3.60	107.00	5,516.05	-5.41	-2.31	362.60	362.61	90.37	409,843.69	830,004.60
Resume Pro MWD Surveys: 5532" MD										
5,626.00	3.50	106.40	5,609.87	-7.14	-3.99	368.18	368.20	90.62	409,842.01	830,010.18
5,721.00	3.40	107.40	5,704.70	-8.84	-5.65	373.65	373.69	90.87	409,840.35	830,015.65
5,815.00	5.30	101.20	5,798.42	-10.58	-7.32	380.57	380.64	91.10	409,838.68	830,022.57
5,910.00	5.80	99.60	5,892.98	-12.31	-8.98	389.60	389.71	91.32	409,837.02	830,031.60
6,005.00	5.30	97.00	5,987.53	-13.72	-10.31	398.69	398.82	91.48	409,835.69	830,040.69
6,100.00	5.20	96.30	6,082.13	-14.80	-11.32	407.32	407.48	91.59	409,834.68	830,049.32
6,195.00	5.40	94.50	6,176.73	-15.70	-12.14	416.06	416.24	91.67	409,833.86	830,058.06
6,290.00	5.10	91.20	6,271.33	-16.21	-12.58	424.74	424.92	91.70	409,833.42	830,066.74
6,385.00	5.00	90.40	6,365.96	-16.40	-12.70	433.10	433.29	91.68	409,833.30	830,075.10
6,480.00	4.90	87.50	6,460.60	-16.32	-12.55	441.29	441.47	91.63	409,833.45	830,083.29
6,575.00	5.00	87.30	6,555.25	-16.02	-12.18	449.48	449.65	91.55	409,833.82	830,091.48
6,670.00	4.90	86.00	6,649.90	-15.61	-11.70	457.66	457.81	91.46	409,834.30	830,099.66
6,765.00	4.80	86.40	6,744.56	-15.15	-11.17	465.68	465.81	91.37	409,834.83	830,107.68
6,860.00	4.90	85.40	6,839.22	-14.64	-10.59	473.69	473.81	91.28	409,835.41	830,115.69



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Survey

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6,955.00	4.90	84.30	6,933.87	-13.99	-9.87	481.77	481.87	91.17	409,836.13	830,123.77
7,049.00	5.60	96.30	7,027.48	-14.16	-9.97	490.32	490.43	91.16	409,836.03	830,132.32
7,144.00	5.40	99.20	7,122.04	-15.46	-11.19	499.34	499.47	91.28	409,834.81	830,141.34
7,240.00	5.20	98.50	7,217.63	-16.90	-12.56	508.11	508.26	91.42	409,833.44	830,150.11
7,334.00	5.20	96.20	7,311.24	-18.07	-13.65	516.55	516.73	91.51	409,832.35	830,158.55
7,429.00	5.00	94.50	7,405.87	-18.93	-14.44	524.96	525.16	91.58	409,831.56	830,166.96
7,524.00	4.80	94.10	7,500.52	-19.61	-15.05	533.05	533.26	91.62	409,830.95	830,175.05
7,619.00	4.60	94.10	7,595.20	-20.23	-15.60	540.82	541.04	91.65	409,830.40	830,182.82
7,715.00	4.30	93.30	7,690.91	-20.77	-16.09	548.25	548.49	91.68	409,829.91	830,190.25
7,810.00	4.20	93.40	7,785.65	-21.25	-16.50	555.28	555.52	91.70	409,829.50	830,197.28
7,905.00	3.90	91.40	7,880.41	-21.59	-16.78	561.98	562.23	91.71	409,829.22	830,203.98
8,000.00	3.60	90.40	7,975.21	-21.74	-16.88	568.19	568.44	91.70	409,829.12	830,210.19
8,095.00	5.00	82.40	8,069.94	-21.27	-16.36	575.28	575.51	91.63	409,829.64	830,217.28
8,190.00	5.00	82.90	8,164.58	-20.29	-15.30	583.49	583.69	91.50	409,830.70	830,225.49
8,285.00	4.30	83.20	8,259.26	-19.42	-14.36	591.14	591.31	91.39	409,831.64	830,233.14
8,380.00	3.70	81.80	8,354.03	-18.62	-13.50	597.71	597.86	91.29	409,832.50	830,239.71
8,475.00	5.40	90.20	8,448.73	-18.26	-13.08	605.21	605.35	91.24	409,832.92	830,247.21
8,570.00	5.30	92.40	8,543.32	-18.53	-13.28	614.06	614.21	91.24	409,832.72	830,256.06
8,666.00	4.80	91.40	8,638.94	-18.89	-13.57	622.51	622.66	91.25	409,832.43	830,264.51
8,761.00	4.60	93.50	8,733.62	-19.29	-13.90	630.29	630.44	91.26	409,832.10	830,272.29
8,856.00	4.20	93.00	8,828.34	-19.76	-14.31	637.56	637.72	91.29	409,831.69	830,279.56
8,951.00	4.00	93.40	8,923.10	-20.20	-14.69	644.34	644.51	91.31	409,831.31	830,286.34
9,046.00	3.70	90.00	9,017.89	-20.45	-14.89	650.72	650.89	91.31	409,831.11	830,292.72
9,141.00	3.50	88.00	9,112.70	-20.40	-14.78	656.68	656.85	91.29	409,831.22	830,298.68
9,236.00	3.00	84.80	9,207.55	-20.12	-14.46	662.05	662.21	91.25	409,831.54	830,304.05
9,331.00	2.50	81.70	9,302.44	-19.63	-13.93	666.58	666.73	91.20	409,832.07	830,308.58
9,426.00	2.20	80.00	9,397.36	-19.05	-13.32	670.43	670.56	91.14	409,832.68	830,312.43



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9,521.00	1.80	79.70	9,492.30	-18.49	-12.73	673.69	673.81	91.08	409,833.27	830,315.69
9,616.00	2.10	70.50	9,587.24	-17.67	-11.89	676.80	676.90	91.01	409,834.11	830,318.80
9,711.00	2.30	55.50	9,682.17	-16.04	-10.23	680.01	680.09	90.86	409,835.77	830,322.01
9,806.00	2.50	45.20	9,777.09	-13.53	-7.69	683.05	683.09	90.64	409,838.31	830,325.05
9,901.00	0.10	83.50	9,872.06	-12.07	-6.22	684.60	684.63	90.52	409,839.78	830,326.60
9,996.00	0.30	216.80	9,967.06	-12.26	-6.41	684.54	684.57	90.54	409,839.59	830,326.54
10,091.00	0.70	268.70	10,062.06	-12.47	-6.62	683.81	683.84	90.55	409,839.38	830,325.81
10,187.00	0.90	267.80	10,158.05	-12.50	-6.66	682.47	682.50	90.56	409,839.34	830,324.47
10,282.00	0.60	303.10	10,253.04	-12.24	-6.42	681.31	681.34	90.54	409,839.58	830,323.31
10,377.00	1.20	305.10	10,348.03	-11.39	-5.57	680.08	680.10	90.47	409,840.43	830,322.08
10,472.00	1.50	309.10	10,443.00	-10.02	-4.22	678.30	678.31	90.36	409,841.78	830,320.30
10,566.00	0.00	31.70	10,536.99	-9.23	-3.44	677.34	677.35	90.29	409,842.56	830,319.34
10,661.00	0.70	90.40	10,631.99	-9.24	-3.45	677.92	677.93	90.29	409,842.55	830,319.92
10,756.00	0.80	49.20	10,726.98	-8.82	-3.02	679.00	679.01	90.25	409,842.98	830,321.00
10,851.00	0.80	335.30	10,821.97	-7.79	-1.98	679.23	679.23	90.17	409,844.02	830,321.23
10,946.00	0.80	358.80	10,916.96	-6.52	-0.71	678.94	678.94	90.06	409,845.29	830,320.94
11,040.00	0.60	340.90	11,010.96	-5.40	0.41	678.76	678.76	89.97	409,846.41	830,320.76
11,135.00	1.40	285.10	11,105.94	-4.62	1.18	677.48	677.48	89.90	409,847.18	830,319.48
11,230.00	3.60	291.00	11,200.85	-3.21	2.55	673.57	673.58	89.78	409,848.55	830,315.57
11,325.00	3.40	282.70	11,295.67	-1.47	4.24	668.04	668.06	89.64	409,850.24	830,310.04
11,421.00	1.30	211.80	11,391.60	-1.75	3.94	664.69	664.70	89.66	409,849.94	830,306.69
11,516.00	1.90	165.60	11,486.56	-4.19	1.50	664.51	664.52	89.87	409,847.50	830,306.51
11,610.00	1.80	170.00	11,580.52	-7.15	-1.47	665.16	665.16	90.13	409,844.53	830,307.16
11,705.00	2.00	193.10	11,675.46	-10.24	-4.55	665.04	665.06	90.39	409,841.45	830,307.04
11,801.00	2.20	174.80	11,771.40	-13.70	-8.02	664.83	664.88	90.69	409,837.98	830,306.83
11,842.00	2.40	167.30	11,812.37	-15.33	-9.64	665.09	665.16	90.83	409,836.36	830,307.09
11,988.00	2.10	38.60	11,958.32	-16.24	-10.53	667.43	667.51	90.90	409,835.47	830,309.43



ProDirectional Survey Report



Company: Matador Resources
Project: Lea County, NM (NAD83)
Site: Biggers Fed Com
Well: No. 214H
Wellbore: OH
Design: MWD-155-17367', PTB: 17435'

Local Co-ordinate Reference: Well No. 214H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
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)
12,020.00	6.30	15.60	11,990.23	-14.09	-8.38	668.27	668.32	90.72	409,837.62	830,310.27
12,084.00	15.00	355.40	12,053.08	-2.43	3.28	668.55	668.56	89.72	409,849.28	830,310.55
12,178.00	26.40	342.50	12,140.91	29.81	35.46	661.26	662.21	86.93	409,881.46	830,303.26
12,273.00	34.80	354.40	12,222.68	77.13	82.71	652.24	657.47	82.77	409,928.71	830,294.24
12,368.00	45.40	1.80	12,295.29	138.14	143.70	650.65	666.33	77.55	409,989.70	830,292.65
12,462.00	53.20	0.80	12,356.54	209.31	214.90	652.23	686.72	71.76	410,060.90	830,294.23
12,557.00	61.00	7.50	12,408.14	288.66	294.30	658.20	721.00	65.91	410,140.30	830,300.20
12,605.00	65.10	11.00	12,429.90	330.81	336.51	665.10	745.38	63.16	410,182.51	830,307.10
12,652.00	66.70	11.30	12,449.09	372.83	378.60	673.40	772.53	60.65	410,224.60	830,315.40
12,702.00	72.20	13.50	12,466.63	418.44	424.30	683.46	804.46	58.17	410,270.30	830,325.46
12,791.00	78.50	13.30	12,489.13	501.99	508.02	703.40	867.68	54.16	410,354.02	830,345.40
12,887.00	82.20	10.40	12,505.23	594.42	600.63	722.82	939.80	50.28	410,446.63	830,364.82
12,982.00	84.50	4.60	12,516.23	687.82	694.13	735.12	1,011.05	46.64	410,540.13	830,377.12
13,077.00	86.90	1.90	12,523.36	782.34	788.70	740.48	1,081.83	43.19	410,634.70	830,382.48
13,172.00	86.90	1.90	12,528.50	877.11	883.51	743.63	1,154.80	40.09	410,729.51	830,385.63
13,267.00	88.60	2.00	12,532.23	971.95	978.37	746.86	1,230.86	37.36	410,824.37	830,388.86
13,363.00	89.60	1.40	12,533.73	1,067.87	1,074.32	749.71	1,310.05	34.91	410,920.32	830,391.71
13,458.00	89.50	1.50	12,534.48	1,162.81	1,169.29	752.11	1,390.29	32.75	411,015.29	830,394.11
13,553.00	89.90	1.30	12,534.98	1,257.76	1,264.26	754.43	1,472.25	30.83	411,110.26	830,396.43
13,648.00	89.80	0.90	12,535.23	1,352.72	1,359.24	756.26	1,555.46	29.09	411,205.24	830,398.26
13,743.00	89.60	0.60	12,535.72	1,447.70	1,454.23	757.50	1,639.69	27.51	411,300.23	830,399.50
13,838.00	89.30	0.00	12,536.64	1,542.68	1,549.22	758.00	1,724.72	26.07	411,395.22	830,400.00
13,934.00	88.10	359.60	12,538.81	1,638.65	1,645.19	757.66	1,811.27	24.73	411,491.19	830,399.66
14,028.00	87.70	358.80	12,542.26	1,732.59	1,739.12	756.35	1,896.47	23.50	411,585.12	830,398.35
14,123.00	87.30	357.90	12,546.40	1,827.48	1,833.99	753.62	1,982.79	22.34	411,679.99	830,395.62
14,217.00	89.40	359.70	12,549.11	1,921.42	1,927.92	751.65	2,069.27	21.30	411,773.92	830,393.65
14,311.00	88.10	359.30	12,551.16	2,015.40	2,021.89	750.83	2,156.80	20.37	411,867.89	830,392.83



ProDirectional Survey Report



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Design: MWD-155-17367', PTB: 17435'

Local Co-ordinate Reference: Well No. 214H
TVD Reference: Well @ 3360.50usft
MD Reference: Well @ 3360.50usft
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)
14,406.00	90.70	3.20	12,552.15	2,110.32	2,116.84	752.90	2,246.75	19.58	411,962.84	830,394.90
14,502.00	91.00	4.70	12,550.73	2,206.02	2,212.60	759.52	2,339.33	18.95	412,058.60	830,401.52
14,597.00	91.50	10.40	12,548.66	2,300.03	2,306.71	771.99	2,432.47	18.50	412,152.71	830,413.99
14,692.00	91.70	9.90	12,546.00	2,393.36	2,400.19	788.72	2,526.46	18.19	412,246.19	830,430.72
14,786.00	88.90	6.30	12,545.51	2,486.28	2,493.23	801.96	2,619.03	17.83	412,339.23	830,443.96
14,881.00	86.40	0.60	12,549.41	2,580.92	2,587.93	807.68	2,711.03	17.33	412,433.93	830,449.68
14,977.00	86.90	1.20	12,555.02	2,676.73	2,683.75	809.18	2,803.09	16.78	412,529.75	830,451.18
15,071.00	87.90	358.40	12,559.28	2,770.62	2,777.64	808.85	2,893.02	16.24	412,623.64	830,450.85
15,166.00	87.50	357.90	12,563.10	2,865.52	2,872.52	805.79	2,983.39	15.67	412,718.52	830,447.79
15,261.00	87.00	357.90	12,567.65	2,960.37	2,967.34	802.31	3,073.89	15.13	412,813.34	830,444.31
15,355.00	87.40	356.90	12,572.25	3,054.20	3,061.13	798.05	3,163.45	14.61	412,907.13	830,440.05
15,449.00	89.80	357.20	12,574.54	3,148.07	3,154.97	793.22	3,253.16	14.11	413,000.97	830,435.22
15,544.00	89.40	355.10	12,575.21	3,242.90	3,249.75	786.84	3,343.65	13.61	413,095.75	830,428.84
15,639.00	93.40	359.30	12,572.88	3,337.76	3,344.57	782.20	3,434.82	13.16	413,190.57	830,424.20
15,733.00	93.90	359.50	12,566.90	3,431.56	3,438.37	781.22	3,526.00	12.80	413,284.37	830,423.22
15,828.00	93.30	358.50	12,560.94	3,526.37	3,533.17	779.56	3,618.15	12.44	413,379.17	830,421.56
15,922.00	93.40	358.50	12,555.44	3,620.20	3,626.98	777.11	3,709.29	12.09	413,472.98	830,419.11
16,017.00	93.80	358.50	12,549.48	3,714.99	3,721.76	774.62	3,801.51	11.76	413,567.76	830,416.62
16,111.00	94.20	358.40	12,542.92	3,808.75	3,815.49	772.09	3,892.83	11.44	413,661.49	830,414.09
16,205.00	90.80	359.50	12,538.82	3,902.64	3,909.37	770.37	3,984.55	11.15	413,755.37	830,412.37
16,299.00	91.60	359.90	12,536.85	3,996.62	4,003.35	769.88	4,076.70	10.89	413,849.35	830,411.88
16,394.00	87.60	0.80	12,537.51	4,091.59	4,098.32	770.46	4,170.12	10.65	413,944.32	830,412.46
16,489.00	86.50	0.20	12,542.40	4,186.44	4,193.19	771.28	4,263.54	10.42	414,039.19	830,413.28
16,584.00	85.30	359.20	12,549.20	4,281.20	4,287.95	770.79	4,356.67	10.19	414,133.95	830,412.79
16,678.00	86.80	358.80	12,555.67	4,374.97	4,381.70	769.15	4,448.70	9.96	414,227.70	830,411.15
16,773.00	87.00	359.10	12,560.81	4,469.82	4,476.55	767.41	4,541.85	9.73	414,322.55	830,409.41
16,868.00	87.60	357.60	12,565.28	4,564.69	4,571.40	764.68	4,634.92	9.50	414,417.40	830,406.68



ProDirectional Survey Report



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Local Co-ordinate Reference: Well No. 214H
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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)
16,963.00	87.20	357.20	12,569.59	4,659.53	4,666.21	760.38	4,727.75	9.26	414,512.21	830,402.38
17,058.00	87.20	356.80	12,574.23	4,754.33	4,760.96	755.41	4,820.52	9.02	414,606.96	830,397.41
17,153.00	87.50	357.20	12,578.63	4,849.13	4,855.73	750.44	4,913.38	8.79	414,701.73	830,392.44
17,247.00	87.70	357.30	12,582.56	4,942.98	4,949.54	745.94	5,005.43	8.57	414,795.54	830,387.94
17,343.00	88.30	357.20	12,585.91	5,038.85	5,045.37	741.33	5,099.54	8.36	414,891.37	830,383.33
17,367.00	89.10	357.50	12,586.46	5,062.82	5,069.34	740.23	5,123.10	8.31	414,915.34	830,382.23
Last Survey: 17367' MD										
17,435.00	89.10	357.50	12,587.53	5,130.77	5,137.26	737.26	5,189.90	8.17	414,983.26	830,379.26
PTB: 17435' MD										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
155.00	155.00	-0.18	0.36	Pro MWD First Survey: 155' MD
5,071.00	5,056.50	6.41	327.39	Last Survey: 5071' MD
5,532.00	5,516.05	-2.31	362.60	Resume Pro MWD Surveys: 5532' MD
17,367.00	12,586.46	5,069.34	740.23	Last Survey: 17367' MD
17,435.00	12,587.53	5,137.26	737.26	PTB: 17435' MD