



Survey Report

Service Company: Aim Directional Services

Location: Jal

Well: Pimento Fed Com 26 36 03
#111H_ST01

Rig: H&P 616

API or UWI: 30-025-45633

Job Number: WT-19-178

State: NM

Operating Company: Ameredev Operating, LLC.

County: LEA

Magnetic Declination: 5.93

Country: USA

Proposed Azimuth: 179.7

Comment

North Reference: GRID

Latitude: 32.07894722

Longitude: -103.2606222

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
182.00	1.00	78.00	181.99	0.33	1.55	78.00	1.59	-0.32	0.55
295.00	0.70	354.00	294.98	1.22	2.45	63.46	2.73	-1.21	1.03
487.00	0.80	62.00	486.97	3.02	3.51	49.29	4.63	-3.00	0.44
613.00	1.00	66.00	612.95	3.88	5.29	53.75	6.56	-3.85	0.17
738.00	0.70	102.00	737.94	4.16	7.03	59.37	8.17	-4.13	0.48
927.00	1.00	84.00	926.92	4.09	9.80	67.32	10.62	-4.04	0.21
1147.00	0.30	0.03	1146.91	4.87	11.71	67.41	12.68	-4.81	0.46
1335.00	0.80	113.00	1334.90	4.85	12.92	69.42	13.80	-4.78	0.51
1524.00	0.80	53.00	1523.89	5.13	15.19	71.34	16.03	-5.05	0.42
1713.00	0.30	344.00	1712.88	6.40	16.10	68.33	17.33	-6.31	0.40
1994.00	0.19	52.33	1993.88	7.39	16.27	65.57	17.87	-7.31	0.10
2089.00	0.27	84.56	2088.87	7.51	16.62	65.69	18.24	-7.42	0.16
2183.00	0.57	63.32	2182.87	7.74	17.26	65.84	18.91	-7.65	0.35
2277.00	0.50	43.24	2276.87	8.25	17.96	65.33	19.76	-8.15	0.21
2372.00	0.76	61.83	2371.86	8.85	18.79	64.79	20.77	-8.75	0.34
2467.00	0.76	52.92	2466.85	9.52	19.85	64.37	22.02	-9.42	0.12
2561.00	1.17	65.14	2560.84	10.30	21.22	64.10	23.59	-10.19	0.49
2655.00	1.17	79.30	2654.82	10.89	23.03	64.71	25.48	-10.77	0.31
2750.00	0.63	120.17	2749.81	10.80	24.44	66.15	26.72	-10.68	0.85
2844.00	1.09	84.71	2843.80	10.63	25.78	67.60	27.88	-10.49	0.73

2939.00	0.79	95.68	2938.79	10.64	27.33	68.72	29.33	-10.50	0.37
3033.00	0.55	238.17	3032.78	10.34	27.59	69.45	29.46	-10.20	1.35
3128.00	0.75	152.10	3127.78	9.55	27.49	70.84	29.10	-9.41	0.95
3223.00	0.91	162.26	3222.77	8.28	28.01	73.53	29.21	-8.14	0.23
3317.00	1.20	209.14	3316.76	6.71	27.76	76.40	28.56	-6.57	0.94
3412.00	0.99	186.70	3411.74	5.03	27.18	79.52	27.64	-4.89	0.50
3506.00	1.08	183.24	3505.72	3.34	27.04	82.96	27.24	-3.20	0.12
3601.00	1.04	181.66	3600.71	1.58	26.96	86.64	27.01	-1.44	0.05
3696.00	1.11	183.61	3695.69	-0.20	26.88	90.42	26.88	0.34	0.08
3790.00	0.87	185.71	3789.68	-1.82	26.75	93.88	26.81	1.96	0.26
3885.00	0.91	167.19	3884.66	-3.27	26.85	96.94	27.04	3.41	0.30
3981.00	0.83	169.87	3980.65	-4.70	27.14	99.82	27.54	4.84	0.09
4076.00	0.36	162.09	4075.65	-5.66	27.35	101.69	27.93	5.80	0.50
4171.00	0.61	257.32	4170.65	-6.05	26.95	102.66	27.62	6.19	0.77
4265.00	1.52	262.96	4264.63	-6.32	25.22	104.06	26.00	6.45	0.97
4360.00	1.62	264.49	4359.59	-6.60	22.64	106.25	23.58	6.72	0.11
4454.00	1.56	269.84	4453.56	-6.73	20.03	108.57	21.13	6.84	0.17
4549.00	1.59	276.95	4548.52	-6.57	17.43	110.66	18.63	6.67	0.21
4643.00	1.74	284.07	4642.48	-6.07	14.75	112.36	15.95	6.15	0.27
4738.00	1.59	279.95	4737.44	-5.49	12.06	114.49	13.25	5.55	0.20
4832.00	1.29	285.63	4831.41	-4.98	9.75	117.06	10.95	5.03	0.35
4927.00	1.36	293.52	4926.39	-4.24	7.69	118.89	8.78	4.28	0.21
5021.00	1.50	290.71	5020.36	-3.36	5.51	121.37	6.46	3.39	0.17
5116.00	1.42	296.10	5115.33	-2.41	3.29	126.13	4.08	2.42	0.17
5151.00	1.42	292.95	5150.32	-2.05	2.51	129.22	3.23	2.06	0.22
5305.00	1.32	303.06	5304.27	-0.33	-0.74	245.68	0.81	0.33	0.17
5399.00	1.40	301.36	5398.25	0.85	-2.63	288.03	2.76	-0.87	0.10
5494.00	1.36	298.24	5493.22	1.99	-4.61	293.37	5.02	-2.02	0.09
5589.00	1.16	297.18	5588.19	2.96	-6.46	294.66	7.11	-3.00	0.21
5683.00	1.07	301.68	5682.18	3.86	-8.05	295.62	8.93	-3.90	0.13
5778.00	1.09	307.33	5777.16	4.87	-9.53	297.10	10.70	-4.92	0.11
5873.00	0.85	305.34	5872.15	5.83	-10.82	298.32	12.29	-5.89	0.26
5967.00	0.71	317.52	5966.14	6.66	-11.78	299.49	13.53	-6.72	0.23
6062.00	0.52	329.19	6061.13	7.47	-12.40	301.06	14.47	-7.53	0.24
6156.00	0.44	325.91	6155.13	8.13	-12.82	302.39	15.18	-8.20	0.09
6251.00	0.42	330.25	6250.13	8.74	-13.20	303.51	15.83	-8.81	0.04
6345.00	0.40	16.82	6344.12	9.35	-13.27	305.16	16.24	-9.42	0.35
6440.00	0.46	40.83	6439.12	9.96	-12.93	307.60	16.32	-10.02	0.20
6535.00	0.48	38.11	6534.12	10.56	-12.43	310.34	16.31	-10.62	0.03
6629.00	0.64	45.28	6628.11	11.24	-11.82	313.56	16.31	-11.30	0.19
6724.00	1.03	53.39	6723.10	12.12	-10.75	318.41	16.20	-12.18	0.43
6819.00	0.85	97.41	6818.09	12.54	-9.37	323.23	15.65	-12.59	0.76

6913.00	1.14	99.47	6912.08	12.29	-7.76	327.75	14.54	-12.33	0.31
7008.00	1.00	92.77	7007.06	12.10	-6.00	333.64	13.50	-12.13	0.20
7102.00	0.97	101.10	7101.05	11.91	-4.40	339.73	12.69	-11.93	0.16
7197.00	0.89	95.66	7196.03	11.68	-2.87	346.18	12.03	-11.69	0.13
7291.00	1.08	101.11	7290.02	11.44	-1.28	353.63	11.51	-11.44	0.23
7386.00	0.53	158.90	7385.01	10.85	-0.24	358.73	10.86	-10.85	0.96
7481.00	1.09	118.68	7480.00	10.01	0.71	4.06	10.03	-10.01	0.81
7575.00	0.84	128.43	7573.99	9.15	2.03	12.54	9.38	-9.14	0.32
7670.00	0.54	156.03	7668.98	8.31	2.76	18.39	8.76	-8.30	0.46
7764.00	0.41	116.27	7762.98	7.76	3.24	22.69	8.41	-7.74	0.37
7859.00	0.05	59.83	7857.98	7.63	3.58	25.17	8.43	-7.61	0.40
7953.00	0.12	73.33	7951.98	7.68	3.71	25.82	8.53	-7.66	0.08
8048.00	0.09	50.05	8046.98	7.75	3.87	26.51	8.66	-7.73	0.05
8142.00	0.14	67.95	8140.98	7.84	4.03	27.20	8.82	-7.82	0.06
8237.00	0.30	75.14	8235.98	7.95	4.38	28.84	9.08	-7.93	0.17
8331.00	0.41	71.74	8329.98	8.12	4.93	31.29	9.50	-8.09	0.12
8425.00	0.51	45.82	8423.97	8.52	5.55	33.12	10.17	-8.49	0.24
8520.00	0.52	65.29	8518.97	8.99	6.25	34.80	10.95	-8.96	0.18
8614.00	0.61	43.09	8612.97	9.53	6.98	36.20	11.81	-9.50	0.25
8709.00	0.80	47.97	8707.96	10.35	7.82	37.07	12.97	-10.31	0.21
8803.00	0.85	64.79	8801.95	11.08	8.93	38.87	14.24	-11.04	0.26
8898.00	0.94	69.54	8896.94	11.66	10.30	41.47	15.56	-11.60	0.12
8994.00	0.93	75.86	8992.92	12.12	11.80	44.22	16.91	-12.06	0.11
9089.00	1.14	88.97	9087.91	12.33	13.49	47.58	18.27	-12.26	0.33
9183.00	1.19	88.15	9181.89	12.38	15.40	51.21	19.76	-12.29	0.06
9278.00	0.87	76.17	9276.87	12.58	17.08	53.64	21.22	-12.49	0.40
9373.00	0.67	58.55	9371.87	13.04	18.26	54.46	22.44	-12.95	0.32
9467.00	0.82	67.50	9465.86	13.59	19.35	54.93	23.64	-13.48	0.20
9562.00	0.26	339.66	9560.85	14.05	19.90	54.78	24.36	-13.94	0.90
9657.00	0.87	286.50	9655.85	14.45	19.14	52.93	23.98	-14.35	0.78
9751.00	0.48	265.66	9749.84	14.63	18.06	50.99	23.24	-14.53	0.48
9846.00	0.35	257.43	9844.84	14.53	17.38	50.09	22.66	-14.44	0.15
9940.00	0.44	204.03	9938.84	14.14	16.95	50.16	22.08	-14.05	0.39
10035.00	0.57	155.27	10033.83	13.38	17.00	51.80	21.63	-13.29	0.46
10130.00	0.33	116.19	10128.83	12.83	17.44	53.67	21.65	-12.74	0.40
10224.00	0.31	109.17	10222.83	12.63	17.93	54.84	21.93	-12.53	0.05
10319.00	0.52	124.37	10317.83	12.30	18.53	56.42	22.24	-12.20	0.25
10413.00	0.45	100.96	10411.82	11.99	19.24	58.07	22.67	-11.89	0.22
10508.00	0.94	81.32	10506.82	12.04	20.38	59.43	23.67	-11.93	0.57
10581.00	0.94	80.58	10579.81	12.22	21.56	60.45	24.78	-12.11	0.02
10764.00	1.36	89.23	10762.77	12.50	25.21	63.63	28.14	-12.37	0.25
10859.00	1.23	157.50	10857.75	11.57	26.73	66.59	29.13	-11.43	1.53

10954.00	0.95	169.33	10952.73	9.86	27.27	70.13	28.99	-9.71	0.38
11049.00	0.84	93.57	11047.73	9.04	28.11	72.17	29.52	-8.89	1.16
11109.00	14.83	166.35	11107.04	1.51	30.37	87.16	30.41	-1.35	24.34
11140.00	17.82	163.25	11136.79	-6.89	32.67	101.91	33.39	7.06	10.04
11172.00	21.68	163.32	11166.90	-17.25	35.78	115.73	39.72	17.43	12.06
11204.00	25.12	166.16	11196.27	-29.51	39.10	127.04	48.99	29.71	11.31
11235.00	27.00	169.66	11224.12	-42.82	41.94	135.59	59.94	43.04	7.83
11282.00	30.63	173.76	11265.29	-65.23	45.16	145.30	79.34	65.46	8.79
11330.00	35.86	176.04	11305.43	-91.43	47.46	152.57	103.01	91.68	11.20
11377.00	41.06	177.94	11342.22	-120.61	48.97	157.90	130.17	120.86	11.34
11424.00	43.87	180.95	11376.89	-152.33	49.25	162.08	160.09	152.58	7.38
11519.00	49.66	188.78	11441.99	-221.14	43.17	168.95	225.31	221.36	8.55
11564.00	52.52	191.40	11470.25	-255.60	37.02	171.76	258.27	255.79	7.80
11612.00	58.78	189.92	11497.33	-294.53	29.71	174.24	296.02	294.68	13.29
11643.00	63.25	187.95	11512.35	-321.31	25.51	175.46	322.32	321.44	15.45
11674.00	67.92	185.21	11525.16	-349.34	22.29	176.35	350.05	349.45	17.08
11706.00	72.11	183.37	11536.09	-379.32	20.05	176.97	379.85	379.42	14.16
11737.00	77.11	181.99	11544.32	-409.17	18.66	177.39	409.59	409.26	16.69
11768.00	81.74	181.23	11550.01	-439.62	17.80	177.68	439.98	439.71	15.13
11821.00	90.01	180.68	11553.81	-492.43	16.92	178.03	492.72	492.51	15.64
11916.00	90.69	183.48	11553.23	-587.36	13.48	178.69	587.51	587.42	3.03
12011.00	90.37	182.21	11552.36	-682.23	8.76	179.26	682.29	682.27	1.38
12106.00	90.69	181.49	11551.48	-777.18	5.70	179.58	777.20	777.20	0.83
12200.00	90.92	180.53	11550.16	-871.15	4.04	179.73	871.16	871.16	1.05
12295.00	91.64	181.51	11548.03	-966.11	2.35	179.86	966.12	966.11	1.28
12390.00	90.05	183.73	11546.63	-1060.99	-1.99	180.11	1061.00	1060.97	2.87
12485.00	88.01	185.50	11548.24	-1155.66	-9.64	180.48	1155.70	1155.60	2.84
12580.00	89.11	186.09	11550.63	-1250.15	-19.22	180.88	1250.29	1250.03	1.31
12675.00	84.15	183.98	11556.21	-1344.58	-27.55	181.17	1344.86	1344.42	5.67
12770.00	81.91	183.43	11567.74	-1438.68	-33.64	181.34	1439.07	1438.48	2.43
12865.00	79.89	183.77	11582.76	-1532.29	-39.53	181.48	1532.80	1532.06	2.16
12960.00	80.20	181.63	11599.19	-1625.75	-43.94	181.55	1626.34	1625.50	2.24
13055.00	82.22	179.29	11613.71	-1719.62	-44.69	181.49	1720.20	1719.36	3.23
13103.00	84.86	177.60	11619.11	-1767.29	-43.39	181.41	1767.82	1767.04	6.52
13150.00	85.91	177.38	11622.89	-1814.09	-41.34	181.31	1814.56	1813.85	2.28
13182.00	87.56	178.22	11624.71	-1846.02	-40.11	181.24	1846.45	1845.78	5.78
13214.00	88.26	178.58	11625.88	-1877.98	-39.22	181.20	1878.39	1877.75	2.46
13245.00	87.56	178.36	11627.01	-1908.95	-38.39	181.15	1909.34	1908.72	2.37
13277.00	85.77	177.71	11628.87	-1940.88	-37.30	181.10	1941.23	1940.65	5.95
13309.00	84.87	177.29	11631.48	-1972.74	-35.91	181.04	1973.07	1972.52	3.10
13340.00	84.91	177.87	11634.24	-2003.59	-34.60	180.99	2003.89	2003.38	1.87
13372.00	87.18	178.49	11636.45	-2035.49	-33.59	180.95	2035.77	2035.29	7.35

13404.00	88.53	178.14	11637.65	-2067.46	-32.65	180.90	2067.71	2067.26	4.36
13435.00	88.66	177.87	11638.41	-2098.43	-31.57	180.86	2098.67	2098.23	0.97
13467.00	86.52	176.82	11639.75	-2130.36	-30.09	180.81	2130.58	2130.18	7.45
13498.00	85.85	176.91	11641.81	-2161.25	-28.40	180.75	2161.43	2161.07	2.18
13530.00	86.36	177.04	11643.99	-2193.13	-26.71	180.70	2193.29	2192.96	1.64
13562.00	86.97	177.11	11645.85	-2225.03	-25.08	180.65	2225.17	2224.87	1.92
13593.00	90.05	177.46	11646.66	-2255.98	-23.62	180.60	2256.11	2255.83	10.00
13625.00	89.63	177.00	11646.75	-2287.95	-22.07	180.55	2288.05	2287.80	1.95
13656.00	89.35	176.84	11647.02	-2318.90	-20.40	180.50	2318.99	2318.76	1.04
13688.00	87.53	175.96	11647.89	-2350.82	-18.40	180.45	2350.90	2350.70	6.32
13720.00	86.77	175.79	11649.48	-2382.70	-16.10	180.39	2382.76	2382.58	2.43
13751.00	86.25	175.70	11651.37	-2413.56	-13.80	180.33	2413.60	2413.45	1.70
13783.00	86.32	176.43	11653.44	-2445.42	-11.61	180.27	2445.44	2445.32	2.29
13814.00	86.55	177.76	11655.37	-2476.32	-10.04	180.23	2476.34	2476.23	4.35
13846.00	86.75	177.82	11657.24	-2508.24	-8.81	180.20	2508.25	2508.16	0.65
13878.00	87.93	178.43	11658.73	-2540.18	-7.76	180.18	2540.20	2540.11	4.15
13909.00	89.95	179.93	11659.30	-2571.17	-7.32	180.16	2571.18	2571.10	8.12
13941.00	91.50	180.71	11658.90	-2603.17	-7.50	180.17	2603.18	2603.09	5.42
13973.00	91.98	180.75	11657.92	-2635.15	-7.91	180.17	2635.16	2635.07	1.51
14004.00	92.17	181.03	11656.80	-2666.13	-8.39	180.18	2666.14	2666.05	1.09
14036.00	92.79	181.21	11655.42	-2698.09	-9.01	180.19	2698.11	2698.01	2.02
14068.00	92.35	182.46	11653.98	-2730.04	-10.04	180.21	2730.06	2729.95	4.14
14099.00	90.29	182.46	11653.27	-2761.00	-11.37	180.24	2761.03	2760.91	6.65
14131.00	87.60	182.08	11653.86	-2792.97	-12.63	180.26	2793.00	2792.87	8.49
14163.00	85.98	182.60	11655.65	-2824.89	-13.94	180.28	2824.93	2824.78	5.32
14194.00	85.69	182.35	11657.90	-2855.78	-15.27	180.31	2855.82	2855.66	1.23
14289.00	85.37	180.51	11665.30	-2950.46	-17.64	180.34	2950.51	2950.33	1.96
14384.00	88.06	179.45	11670.75	-3045.29	-17.60	180.33	3045.34	3045.16	3.04
14479.00	90.09	178.65	11672.28	-3140.26	-16.03	180.29	3140.30	3140.13	2.30
14574.00	89.87	178.35	11672.31	-3235.23	-13.54	180.24	3235.26	3235.11	0.39
14669.00	89.23	178.63	11673.06	-3330.19	-11.04	180.19	3330.21	3330.09	0.74
14764.00	91.37	178.95	11672.56	-3425.16	-9.03	180.15	3425.18	3425.07	2.28
14859.00	91.24	179.12	11670.40	-3520.13	-7.43	180.12	3520.13	3520.04	0.23
14954.00	91.23	179.50	11668.35	-3615.10	-6.29	180.10	3615.10	3615.01	0.40
15049.00	91.67	179.47	11665.95	-3710.06	-5.43	180.08	3710.07	3709.98	0.46
15144.00	90.06	178.89	11664.51	-3805.04	-4.08	180.06	3805.04	3804.96	1.80
15239.00	85.08	177.62	11668.54	-3899.88	-1.19	180.02	3899.88	3899.82	5.41
15334.00	85.79	177.17	11676.10	-3994.48	3.12	179.96	3994.48	3994.44	0.88
15429.00	90.81	178.87	11678.92	-4089.34	6.39	179.91	4089.35	4089.32	5.58
15524.00	90.82	179.11	11677.57	-4184.32	8.07	179.89	4184.33	4184.31	0.25
15619.00	89.48	177.62	11677.32	-4279.28	10.78	179.86	4279.29	4279.27	2.11
15666.00	91.71	177.21	11676.83	-4326.22	12.90	179.83	4326.24	4326.23	4.82

15713.00	90.71	178.80	11675.84	-4373.18	14.53	179.81	4373.21	4373.20	4.00
15809.00	92.71	178.93	11672.97	-4469.12	16.43	179.79	4469.15	4469.14	2.09
15856.00	91.41	178.37	11671.29	-4516.07	17.54	179.78	4516.10	4516.10	3.01
15904.00	91.89	180.64	11669.90	-4564.05	17.96	179.77	4564.08	4564.08	4.83
15999.00	90.62	180.59	11667.82	-4659.02	16.94	179.79	4659.05	4659.04	1.34
16094.00	91.40	181.67	11666.15	-4753.98	15.06	179.82	4754.00	4753.99	1.40
16189.00	92.54	183.91	11662.88	-4848.80	10.44	179.88	4848.82	4848.79	2.64
16284.00	91.03	183.28	11659.92	-4943.57	4.49	179.95	4943.57	4943.52	1.72
16378.00	93.26	184.44	11656.40	-5037.28	-1.83	180.02	5037.28	5037.20	2.67
16473.00	92.89	184.45	11651.31	-5131.86	-9.18	180.10	5131.87	5131.74	0.39
16568.00	91.01	181.49	11648.08	-5226.66	-14.10	180.15	5226.68	5226.52	3.69
16599.00	90.73	181.62	11647.60	-5257.65	-14.94	180.16	5257.67	5257.50	1.00
16631.00	90.80	181.62	11647.18	-5289.63	-15.85	180.17	5289.65	5289.48	0.22
16663.00	89.90	180.98	11646.98	-5321.62	-16.57	180.18	5321.65	5321.46	3.45
16694.00	88.87	179.17	11647.31	-5352.62	-16.61	180.18	5352.64	5352.46	6.72
16726.00	88.37	178.56	11648.09	-5384.60	-15.98	180.17	5384.63	5384.45	2.46
16758.00	88.89	179.11	11648.85	-5416.59	-15.33	180.16	5416.61	5416.43	2.36
16802.00	88.88	179.58	11649.71	-5460.58	-14.83	180.16	5460.60	5460.42	1.07
16853.00	88.71	179.57	11650.78	-5511.56	-14.45	180.15	5511.58	5511.41	0.33
16897.00	87.33	177.53	11652.30	-5555.52	-13.34	180.14	5555.53	5555.37	5.60
16948.00	86.33	177.07	11655.12	-5606.38	-10.94	180.11	5606.39	5606.25	2.16
16992.00	86.59	176.94	11657.84	-5650.24	-8.64	180.09	5650.25	5650.12	0.66
17043.00	86.99	176.68	11660.69	-5701.08	-5.81	180.06	5701.08	5700.97	0.94
17138.00	86.38	176.34	11666.19	-5795.75	-0.04	180.00	5795.75	5795.67	0.73
17233.00	86.18	175.99	11672.35	-5890.33	6.30	179.94	5890.34	5890.28	0.42
17296.00	86.51	175.64	11676.37	-5953.04	10.89	179.90	5953.05	5953.01	0.76
17328.00	87.18	175.53	11678.13	-5984.89	13.35	179.87	5984.91	5984.88	2.12
17360.00	89.67	176.19	11679.01	-6016.79	15.66	179.85	6016.82	6016.79	8.05
17391.00	90.97	176.54	11678.83	-6047.73	17.63	179.83	6047.76	6047.74	4.34
17423.00	92.75	177.32	11677.79	-6079.67	19.34	179.82	6079.70	6079.68	6.07
17454.00	92.84	178.78	11676.28	-6110.61	20.39	179.81	6110.65	6110.63	4.71
17485.00	93.28	179.09	11674.63	-6141.56	20.97	179.80	6141.60	6141.59	1.74
17517.00	93.36	178.52	11672.77	-6173.50	21.63	179.80	6173.54	6173.53	1.80
17548.00	92.63	178.49	11671.15	-6204.45	22.44	179.79	6204.49	6204.48	2.36
17612.00	94.50	179.31	11667.18	-6268.31	23.67	179.78	6268.35	6268.35	3.19
17706.00	94.87	180.47	11659.50	-6361.99	23.85	179.79	6362.04	6362.03	1.29
17801.00	95.33	181.40	11651.05	-6456.60	22.30	179.80	6456.64	6456.63	1.09
17896.00	93.67	182.46	11643.60	-6551.25	19.11	179.83	6551.28	6551.26	2.07
17940.00	93.11	182.25	11641.00	-6595.14	17.31	179.85	6595.16	6595.14	1.36
17991.00	90.12	181.41	11639.56	-6646.08	15.68	179.86	6646.10	6646.08	6.09
18022.00	89.33	180.53	11639.71	-6677.08	15.16	179.87	6677.10	6677.07	3.81
18054.00	88.83	179.63	11640.22	-6709.07	15.11	179.87	6709.09	6709.06	3.22

18086.00	89.09	179.64	11640.80	-6741.07	15.32	179.87	6741.09	6741.06	0.81
18117.00	88.99	179.56	11641.32	-6772.06	15.53	179.87	6772.08	6772.05	0.41
18149.00	88.74	179.25	11641.96	-6804.06	15.86	179.87	6804.07	6804.05	1.24
18180.00	88.05	178.99	11642.82	-6835.04	16.34	179.86	6835.06	6835.03	2.38
18212.00	87.01	178.86	11644.20	-6867.00	16.94	179.86	6867.02	6867.00	3.28
18275.00	88.32	178.95	11646.77	-6929.94	18.14	179.85	6929.96	6929.94	2.08
18369.00	91.80	179.44	11646.67	-7023.91	19.46	179.84	7023.94	7023.92	3.74
18414.00	89.84	179.73	11646.03	-7068.91	19.79	179.84	7068.93	7068.91	4.40
18464.00	86.35	179.06	11647.69	-7118.87	20.32	179.84	7118.90	7118.88	7.11
18508.00	86.36	179.29	11650.49	-7162.77	20.95	179.83	7162.80	7162.79	0.52
18559.00	87.70	179.22	11653.13	-7213.70	21.61	179.83	7213.73	7213.71	2.63
18604.00	87.55	179.27	11654.99	-7258.66	22.20	179.82	7258.69	7258.67	0.35
18654.00	87.15	179.31	11657.31	-7308.60	22.82	179.82	7308.64	7308.62	0.80
18699.00	88.88	179.29	11658.86	-7353.57	23.37	179.82	7353.61	7353.59	3.84
18749.00	89.77	179.32	11659.45	-7403.56	23.98	179.81	7403.60	7403.58	1.78
18843.00	90.06	179.51	11659.59	-7497.56	24.94	179.81	7497.60	7497.58	0.37
18938.00	87.42	179.69	11661.68	-7592.52	25.60	179.81	7592.56	7592.55	2.79
19033.00	89.05	179.74	11664.61	-7687.47	26.07	179.81	7687.52	7687.50	1.72
19128.00	88.40	179.40	11666.72	-7782.45	26.79	179.80	7782.49	7782.48	0.77
19222.00	91.33	179.18	11666.94	-7876.43	27.95	179.80	7876.48	7876.47	3.13
19317.00	92.70	179.07	11663.60	-7971.36	29.40	179.79	7971.41	7971.40	1.45
19412.00	92.07	178.77	11659.65	-8066.26	31.19	179.78	8066.32	8066.31	0.73
19506.00	91.29	178.62	11656.89	-8160.19	33.33	179.77	8160.26	8160.25	0.84
19601.00	92.63	179.22	11653.64	-8255.12	35.12	179.76	8255.19	8255.19	1.55
19695.00	90.31	178.27	11651.23	-8349.05	37.18	179.74	8349.14	8349.13	2.67
19790.00	90.90	178.01	11650.23	-8444.00	40.26	179.73	8444.09	8444.09	0.68
19884.00	90.02	178.68	11649.48	-8537.95	42.98	179.71	8538.06	8538.06	1.18
19979.00	89.80	179.32	11649.62	-8632.94	44.63	179.70	8633.05	8633.05	0.71
20074.00	91.02	180.30	11648.95	-8727.93	44.95	179.70	8728.05	8728.05	1.65
20169.00	92.21	181.82	11646.27	-8822.88	43.19	179.72	8822.98	8822.98	2.03
20264.00	91.36	182.89	11643.31	-8917.75	39.29	179.75	8917.83	8917.83	1.44
20359.00	92.02	183.27	11640.51	-9012.57	34.19	179.78	9012.63	9012.62	0.80
20454.00	90.62	183.24	11638.32	-9107.39	28.80	179.82	9107.43	9107.41	1.47
20549.00	91.08	182.76	11636.91	-9202.25	23.82	179.85	9202.28	9202.24	0.70
20644.00	90.31	182.81	11635.76	-9297.13	19.21	179.88	9297.15	9297.10	0.81
20690.00	90.47	182.74	11635.44	-9343.07	16.98	179.90	9343.09	9343.03	0.38
20739.00	89.49	181.74	11635.46	-9392.03	15.07	179.91	9392.04	9391.98	2.86
20786.00	90.26	181.10	11635.56	-9439.02	13.90	179.92	9439.03	9438.96	2.13
20833.00	90.63	180.84	11635.20	-9486.01	13.11	179.92	9486.02	9485.95	0.96
20878.00	90.48	180.36	11634.76	-9531.00	12.64	179.92	9531.01	9530.94	1.12
20928.00	90.76	178.50	11634.22	-9581.00	13.13	179.92	9581.01	9580.93	3.76
21023.00	91.58	178.05	11632.28	-9675.93	15.99	179.91	9675.95	9675.88	0.98

21118.00	89.73	177.23	11631.20	-9770.84	19.90	179.88	9770.86	9770.81	2.13
21213.00	89.90	177.28	11631.50	-9865.73	24.45	179.86	9865.76	9865.72	0.19
21307.00	91.20	178.42	11630.60	-9959.66	27.98	179.84	9959.70	9959.67	1.84
21402.00	92.04	178.93	11627.91	-10054.59	30.18	179.83	10054.64	10054.61	1.03
21497.00	91.91	178.81	11624.64	-10149.52	32.05	179.82	10149.57	10149.55	0.19
21566.00	92.00	178.72	11622.29	-10218.46	33.53	179.81	10218.52	10218.50	0.18

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
21630.00	92.00	178.72	11620.05	-10282.41	34.96	179.81	10282.47	10282.45	0.00