

MAY 29 2019

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RECEIVED Directional Survey Report

RECEIVED

Company: Ameredev Operating LLC
Well: Golden Bell Federal Com 26 36 06 115H
County: Lea
State: NM
Field: WC-025 G-09 S263619C / Wolfcamp
API: 30-025-45311
Rig: H&P 616
Service Co: Altitude Energy Partners
Job #: GT 190105
Survey Calc: Minimum Curvature

Well Surface Location
Latitude: **32.080127**
Longitude: **-103.303262**
Reference: **NAD 1983**
Y (Northing): **394410.42**
X (Easting): **860376.93**
Field Engr: **Jeremy Langley**
Johnathan White

Report Date: Feb 21 2019
Time: 10:02
Mag Reference: Grid North
Mag Correction: 6.1
Vert Sect. Azi: 179.21
Perm Datum: Mean Sea Level
Depth Ref: Rotary Table
RKB Height: 27
GL Elev: 3014

Survey Tie In	MD	Inc	Azimuth	TVD	VS	Rectangular Offsets			Course		Closure		Source
						NS	EW	Length	DLS	Temp	Distance	Azimuth	
1	162.00	1.00	276.10	161.99	-0.17	0.15	-1.41	162.00	0.82	0.00	1.41	276.10	Svyimport
2	250.00	0.90	185.20	249.98	0.43	-0.46	-2.23	88.00	1.54	0.00	2.28	258.44	Svyimport
3	345.00	0.80	175.50	344.97	1.83	-1.86	-2.25	95.00	0.18	0.00	2.92	230.38	Svyimport
4	529.00	0.30	234.40	528.97	3.39	-3.42	-2.54	184.00	0.38	0.00	4.26	216.57	Svyimport
5	685.00	0.10	238.10	684.96	3.69	-3.73	-2.99	156.00	0.13	0.00	4.78	218.67	Svyimport
6	842.00	0.50	267.00	841.96	3.79	-3.84	-3.79	157.00	0.26	0.00	5.39	224.60	Svyimport
7	937.00	1.10	265.80	936.95	3.86	-3.93	-5.11	95.00	0.63	0.00	6.45	232.45	Svyimport
8	1123.00	1.00	256.20	1122.92	4.33	-4.45	-8.47	186.00	0.11	0.00	9.56	242.30	Svyimport
9	1239.00	0.50	234.90	1238.91	4.84	-4.98	-9.86	116.00	0.49	0.00	11.05	243.22	Svyimport
10	1334.00	0.80	285.80	1333.91	4.89	-5.04	-10.84	95.00	0.65	0.00	11.95	245.08	Svyimport
11	1429.00	1.20	264.10	1428.89	4.79	-4.96	-12.47	95.00	0.57	0.00	13.42	248.32	Svyimport
12	1523.00	0.90	167.90	1522.88	5.60	-5.78	-13.29	94.00	1.68	0.00	14.50	248.50	Svyimport
13	1618.00	0.70	96.70	1617.87	6.40	-6.58	-12.56	95.00	1.00	0.00	14.18	242.36	Svyimport
14	1712.00	0.40	359.20	1711.87	6.15	-6.32	-11.99	94.00	0.90	0.00	13.56	242.23	Svyimport
15	1807.00	1.00	54.00	1806.86	5.34	-5.50	-11.33	95.00	0.88	0.00	12.59	244.11	Svyimport
16	1902.00	0.70	26.40	1901.85	4.35	-4.49	-10.40	95.00	0.53	0.00	11.33	246.64	Svyimport
17	1997.00	2.60	14.30	1996.81	1.75	-1.88	-9.61	95.00	2.02	0.00	9.79	258.91	Svyimport
18	2091.00	4.00	9.60	2090.65	-3.53	3.42	-8.54	94.00	1.52	0.00	9.19	291.81	Svyimport
19	2186.00	4.70	347.40	2185.38	-10.60	10.48	-8.83	95.00	1.90	0.00	13.71	319.88	Svyimport
20	2280.00	3.30	338.40	2279.15	-16.90	16.76	-10.67	94.00	1.63	0.00	19.86	327.51	Svyimport
21	2375.00	2.60	347.70	2374.03	-21.57	21.40	-12.13	95.00	0.89	0.00	24.60	330.45	Svyimport
22	2470.00	4.40	352.30	2468.85	-27.30	27.12	-13.08	95.00	1.92	0.00	30.11	334.25	Svyimport
23	2564.00	4.60	5.40	2562.56	-34.63	34.45	-13.21	94.00	1.11	0.00	36.89	339.02	Svyimport
24	2659.00	4.20	1.10	2657.28	-41.89	41.72	-12.78	95.00	0.55	0.00	43.63	342.96	Svyimport
25	2754.00	4.30	3.90	2752.02	-48.92	48.75	-12.48	95.00	0.24	0.00	50.32	345.64	Svyimport
26	2848.00	4.50	359.30	2845.74	-56.12	55.95	-12.28	94.00	0.43	0.00	57.28	347.62	Svyimport
27	2943.00	5.10	9.30	2940.41	-64.00	63.85	-11.64	95.00	1.08	0.00	64.90	349.66	Svyimport
28	3037.00	4.10	3.80	3034.11	-71.46	71.32	-10.75	94.00	1.16	0.00	72.13	351.43	Svyimport
29	3132.00	3.50	345.20	3128.90	-77.66	77.51	-11.26	95.00	1.43	0.00	78.33	351.73	Svyimport
30	3227.00	3.30	335.60	3223.73	-82.98	82.81	-13.13	95.00	0.63	0.00	83.84	350.99	Svyimport
31	3321.00	3.60	341.50	3317.56	-88.27	88.07	-15.19	94.00	0.49	0.00	89.37	350.22	Svyimport
32	3416.00	3.50	348.40	3412.38	-93.96	93.74	-16.72	95.00	0.46	0.00	95.22	349.89	Svyimport
33	3511.00	3.60	341.10	3507.20	-99.64	99.40	-18.27	95.00	0.49	0.00	101.07	349.59	Svyimport
34	3606.00	3.60	335.10	3602.01	-105.20	104.93	-20.49	95.00	0.40	0.00	106.91	348.95	Svyimport
35	3701.00	3.90	348.30	3696.81	-111.10	110.80	-22.40	95.00	0.96	0.00	113.04	348.57	Svyimport
36	3795.00	3.40	351.70	3790.62	-117.00	116.69	-23.45	94.00	0.58	0.00	119.02	348.64	Svyimport
37	3890.00	4.00	344.40	3885.42	-123.00	122.67	-24.75	95.00	0.80	0.00	125.14	348.59	Svyimport
38	3984.00	4.00	344.50	3979.19	-129.34	128.98	-26.50	94.00	0.01	0.00	131.68	348.39	Svyimport
39	4079.00	3.90	337.70	4073.97	-135.55	135.17	-28.62	95.00	0.50	0.00	138.16	348.05	Svyimport
40	4174.00	4.00	339.90	4168.74	-141.68	141.27	-30.98	95.00	0.19	0.00	144.62	347.63	Svyimport
41	4268.00	3.40	345.80	4262.55	-147.49	147.05	-32.79	94.00	0.78	0.00	150.66	347.43	Svyimport
42	4363.00	2.90	1.20	4357.41	-152.63	152.18	-33.43	95.00	1.03	0.00	155.81	347.61	Svyimport
43	4457.00	2.90	355.40	4451.29	-157.38	156.93	-33.57	94.00	0.31	0.00	160.48	347.92	Svyimport
44	4552.00	2.70	350.30	4546.17	-161.98	161.53	-34.14	95.00	0.34	0.00	165.10	348.07	Svyimport
45	4647.00	2.90	355.40	4641.06	-168.59	168.13	-34.71	95.00	0.34	0.00	169.72	348.20	Svyimport
46	4741.00	2.50	5.30	4734.95	-171.00	170.54	-34.71	94.00	0.65	0.00	174.04	348.49	Svyimport
47	4836.00	2.80	350.20	4829.85	-175.36	174.89	-34.92	95.00	0.80	0.00	178.34	348.71	Svyimport
48	4931.00	2.90	0.10	4924.74	-180.05	179.58	-35.31	95.00	0.53	0.00	183.02	348.88	Svyimport
49	5026.00	2.30	349.70	5019.64	-184.33	183.86	-35.64	95.00	0.80	0.00	187.28	349.03	Svyimport

50	5124.00	3.10	342.80	5117.53	-188.82	188.33	-36.78	98.00	0.88	0.00	191.88	348.95	Svyimport
51	5218.00	2.90	350.00	5211.40	-193.60	193.10	-37.94	94.00	0.45	0.00	196.79	348.88	Svyimport
52	5313.00	2.60	345.50	5306.29	-198.07	197.55	-38.90	95.00	0.39	0.00	201.34	348.86	Svyimport
53	5407.00	1.90	356.80	5400.22	-201.69	201.17	-39.52	94.00	0.88	0.00	205.01	348.89	Svyimport
54	5502.00	3.70	4.90	5495.10	-206.32	205.80	-39.35	95.00	1.94	0.00	209.52	349.18	Svyimport
55	5597.00	4.00	6.20	5589.89	-212.66	212.14	-38.73	95.00	0.33	0.00	215.65	349.65	Svyimport
56	5691.00	3.50	5.30	5683.69	-218.77	218.26	-38.11	94.00	0.54	0.00	221.56	350.10	Svyimport
57	5786.00	3.30	3.40	5778.52	-224.38	223.88	-37.68	95.00	0.24	0.00	227.03	350.45	Svyimport
58	5880.00	3.20	356.50	5872.37	-229.69	229.20	-37.68	94.00	0.43	0.00	232.27	350.66	Svyimport
59	5975.00	3.40	357.20	5967.21	-235.16	234.66	-37.98	95.00	0.21	0.00	237.71	350.81	Svyimport
60	6069.00	3.60	0.60	6061.04	-240.89	240.39	-38.08	94.00	0.31	0.00	243.39	351.00	Svyimport
61	6164.00	2.60	341.60	6155.90	-245.93	245.42	-38.73	95.00	1.50	0.00	248.46	351.03	Svyimport
62	6259.00	2.10	329.70	6250.82	-249.50	248.97	-40.29	95.00	0.73	0.00	252.21	350.81	Svyimport
63	6353.00	2.20	346.60	6344.75	-252.76	252.21	-41.58	94.00	0.68	0.00	255.61	350.64	Svyimport
64	6448.00	1.80	343.00	6439.69	-255.97	255.41	-42.44	95.00	0.44	0.00	258.91	350.57	Svyimport
65	6543.00	2.20	347.50	6534.64	-259.19	258.62	-43.27	95.00	0.45	0.00	262.21	350.50	Svyimport
66	6637.00	2.00	330.70	6628.57	-262.40	261.81	-44.46	94.00	0.69	0.00	265.56	350.36	Svyimport
67	6732.00	2.10	343.70	6723.51	-265.53	264.92	-45.76	95.00	0.50	0.00	268.85	350.20	Svyimport
68	6826.00	0.40	331.20	6817.49	-267.48	266.87	-46.40	94.00	1.82	0.00	270.87	350.14	Svyimport
69	6921.00	1.00	9.70	6912.48	-268.59	267.97	-46.42	95.00	0.77	0.00	271.96	350.17	Svyimport
70	7015.00	0.30	339.10	7006.48	-269.63	269.01	-46.37	94.00	0.81	0.00	272.98	350.22	Svyimport
71	7111.00	0.40	45.20	7102.47	-270.09	269.48	-46.22	96.00	0.41	0.00	273.42	350.27	Svyimport
72	7206.00	0.20	347.30	7197.47	-270.49	269.88	-46.02	95.00	0.36	0.00	273.77	350.32	Svyimport
73	7300.00	0.60	63.50	7291.47	-270.86	270.26	-45.62	94.00	0.62	0.00	274.08	350.42	Svyimport
74	7394.00	0.50	54.80	7385.47	-271.31	270.71	-44.84	94.00	0.14	0.00	274.40	350.59	Svyimport
75	7489.00	0.90	92.00	7480.46	-271.50	270.93	-43.76	95.00	0.62	0.00	274.44	350.82	Svyimport
76	7583.00	0.70	193.50	7574.45	-270.91	270.34	-43.16	94.00	1.32	0.00	273.77	350.93	Svyimport
77	7678.00	1.10	132.40	7669.44	-269.73	269.16	-42.62	95.00	1.03	0.00	272.52	351.00	Svyimport
78	7772.00	0.50	276.90	7763.44	-269.16	268.60	-42.36	94.00	1.63	0.00	271.92	351.04	Svyimport
79	7867.00	0.70	199.30	7858.43	-268.67	268.11	-42.96	95.00	0.81	0.00	271.53	350.90	Svyimport
80	7962.00	0.60	122.60	7953.43	-267.85	267.29	-42.74	95.00	0.85	0.00	270.69	350.92	Svyimport
81	8056.00	0.90	134.70	8047.42	-267.08	266.51	-41.80	94.00	0.36	0.00	269.76	351.09	Svyimport
82	8151.00	0.80	137.20	8142.41	-266.03	265.49	-40.82	95.00	0.11	0.00	268.61	351.26	Svyimport
83	8245.00	1.00	121.60	8236.40	-265.11	264.58	-39.67	94.00	0.33	0.00	267.54	351.47	Svyimport
84	8339.00	1.10	108.90	8330.38	-264.36	263.86	-38.12	94.00	0.27	0.00	266.60	351.78	Svyimport
85	8434.00	1.60	203.60	8425.37	-262.85	262.35	-37.79	95.00	2.12	0.00	265.06	351.80	Svyimport
86	8528.00	1.40	196.40	8519.33	-260.55	260.05	-38.64	94.00	0.29	0.00	262.90	351.55	Svyimport
87	8623.00	1.80	165.90	8614.30	-257.99	257.49	-38.60	95.00	0.97	0.00	260.36	351.47	Svyimport
88	8717.00	1.30	181.50	8708.27	-255.49	254.99	-38.27	94.00	0.69	0.00	257.84	351.46	Svyimport
89	8812.00	2.30	152.50	8803.22	-252.71	252.22	-37.42	95.00	1.39	0.00	254.98	351.56	Svyimport
90	8906.00	1.80	143.10	8897.16	-249.83	249.37	-35.66	94.00	0.64	0.00	251.90	351.86	Svyimport
91	9001.00	2.10	171.00	8992.11	-246.91	246.45	-34.49	95.00	1.04	0.00	248.86	352.03	Svyimport
92	9095.00	2.50	152.80	9086.03	-243.37	242.93	-33.28	94.00	0.88	0.00	245.20	352.20	Svyimport
93	9190.00	2.20	141.20	9180.95	-240.07	239.67	-31.19	95.00	0.59	0.00	241.69	352.58	Svyimport
94	9284.00	2.30	138.00	9274.88	-237.23	236.86	-28.80	94.00	0.17	0.00	238.60	353.07	Svyimport
95	9379.00	1.80	162.10	9369.82	-234.37	234.02	-27.07	95.00	1.04	0.00	235.58	353.40	Svyimport
96	9474.00	2.30	143.20	9464.76	-231.40	231.07	-25.47	95.00	0.88	0.00	232.47	353.71	Svyimport
97	9568.00	1.80	126.80	9558.70	-228.98	228.68	-23.16	94.00	0.81	0.00	229.85	354.22	Svyimport
98	9663.00	2.20	114.60	9653.64	-227.29	227.03	-20.30	95.00	0.61	0.00	227.93	354.89	Svyimport
99	9757.00	2.20	105.70	9747.57	-226.00	225.79	-16.93	94.00	0.36	0.00	226.42	355.71	Svyimport
100	9852.00	2.40	113.60	9842.50	-224.66	224.50	-13.35	95.00	0.39	0.00	224.89	356.60	Svyimport
101	9946.00	1.20	126.40	9938.45	-223.25	223.13	-10.75	94.00	1.34	0.00	223.38	357.24	Svyimport
102	10041.00	0.90	117.60	10031.43	-222.30	222.19	-9.29	95.00	0.36	0.00	222.38	357.61	Svyimport
103	10136.00	0.70	138.20	10126.42	-221.50	221.41	-8.24	95.00	0.37	0.00	221.57	357.87	Svyimport
104	10230.00	0.50	105.10	10220.42	-220.96	220.88	-7.46	94.00	0.42	0.00	221.00	358.06	Svyimport
105	10325.00	0.70	180.40	10315.42	-220.27	220.19	-7.07	95.00	0.79	0.00	220.30	358.16	Svyimport
106	10419.00	0.90	204.20	10409.41	-219.02	218.94	-7.37	94.00	0.41	0.00	219.07	358.07	Svyimport
107	10514.00	1.30	219.60	10504.39	-217.52	217.43	-8.37	95.00	0.52	0.00	217.59	357.80	Svyimport
108	10622.00	1.80	219.90	10612.35	-215.31	215.18	-10.23	108.00	0.46	0.00	215.43	357.28	Svyimport
109	10707.00	2.27	227.94	10697.30	-213.18	213.03	-12.34	85.00	0.65	127.71	213.39	356.68	MWD Run 1
110	10802.00	3.51	267.77	10792.18	-211.87	211.66	-16.64	95.00	2.41	134.86	212.31	355.50	MWD Run 1
111	10896.00	5.20	255.28	10885.91	-210.77	210.46	-23.64	94.00	2.05	134.86	211.79	353.59	MWD Run 1
112	10991.00	3.25	269.33	10980.65	-209.74	209.34	-30.50	95.00	2.31	134.86	211.55	351.71	MWD Run 1
113	11085.00	1.74	270.59	11074.56	-209.78	209.32	-34.59	94.00	1.61	142.00	212.16	350.62	MWD Run 1
114	11180.00	0.85	292.02	11169.53	-210.09	209.60	-36.68	95.00	1.05	142.00	212.79	350.07	MWD Run 1
115	11275.00	0.61	274.67	11264.52	-210.41	209.91	-37.84	95.00	0.34	142.00	213.29	349.78	MWD Run 1
116	11369.00	2.48	187.68	11358.49	-208.44	207.93	-38.61	94.00	2.68	142.00	211.49	349.48	MWD Run 1
117	11417.00	5.40	186.93	11406.37	-205.18	204.66	-39.02	48.00	6.08	127.71	208.35	349.20	MWD Run 2

118	11464.00	9.00	188.05	11453.00	-199.35	198.82	-39.81	47.00	7.67	127.71	202.77	348.68	MWD Run 2
119	11512.00	14.84	183.64	11499.94	-189.51	188.96	-40.72	48.00	12.31	134.86	193.30	347.84	MWD Run 2
120	11559.00	20.77	180.74	11544.67	-175.16	174.61	-41.21	47.00	12.75	134.86	179.41	346.72	MWD Run 2
121	11653.00	33.55	175.80	11628.14	-132.39	131.86	-39.52	94.00	13.79	142.00	137.65	343.32	MWD Run 2
122	11747.00	43.24	176.74	11701.73	-74.15	73.67	-35.78	94.00	10.33	149.14	81.89	334.10	MWD Run 2
123	11842.00	49.57	181.16	11767.22	-5.42	4.94	-34.66	95.00	7.46	149.14	35.01	278.11	MWD Run 2
124	11936.00	60.38	179.56	11821.09	71.43	-71.92	-35.07	94.00	11.58	149.14	80.01	205.99	MWD Run 2
125	12031.00	71.55	176.90	11859.73	158.03	-158.49	-32.31	95.00	12.03	149.14	161.75	191.52	MWD Run 2
126	12126.00	80.56	179.71	11882.60	250.11	-250.54	-29.63	95.00	9.91	149.14	252.29	186.74	MWD Run 2
127	12220.00	82.71	180.62	11896.28	343.09	-343.54	-29.90	94.00	2.48	156.29	344.84	184.97	MWD Run 2
128	12315.00	86.32	180.48	11905.36	437.62	-438.08	-30.80	95.00	3.80	156.29	439.16	184.02	MWD Run 2
129	12410.00	85.93	177.63	11911.78	532.39	-532.84	-29.24	95.00	3.02	156.29	533.64	183.14	MWD Run 2
130	12504.00	86.49	177.40	11917.99	626.14	-626.55	-25.17	94.00	0.64	156.29	627.05	182.30	MWD Run 2
131	12599.00	85.62	176.37	11924.53	720.84	-721.18	-20.02	95.00	1.42	156.29	721.46	181.59	MWD Run 2
132	12693.00	87.50	177.48	11930.17	814.59	-814.87	-14.99	94.00	2.32	163.43	815.01	181.05	MWD Run 2
133	12788.00	87.22	176.25	11934.54	909.40	-909.63	-9.80	95.00	1.33	163.43	909.68	180.62	MWD Run 2
134	12882.00	86.61	174.93	11939.60	1003.08	-1003.21	-2.58	94.00	1.55	163.43	1003.21	180.15	MWD Run 2
135	12977.00	86.92	174.47	11944.96	1097.63	-1097.65	6.18	95.00	0.58	163.43	1097.67	179.68	MWD Run 2
136	13071.00	86.43	174.12	11950.42	1191.13	-1191.03	15.50	94.00	0.64	163.43	1191.13	179.25	MWD Run 2
137	13166.00	89.13	174.34	11954.10	1285.69	-1285.47	25.05	95.00	2.85	163.43	1285.71	178.88	MWD Run 2
138	13260.00	91.93	174.67	11953.23	1379.36	-1379.02	34.05	94.00	3.00	163.43	1379.44	178.59	MWD Run 2
139	13354.00	94.03	174.86	11948.34	1472.95	-1472.50	42.61	94.00	2.24	163.43	1473.11	178.34	MWD Run 2
140	13449.00	92.19	177.01	11943.19	1567.64	-1567.11	49.33	95.00	2.98	163.43	1567.89	178.20	MWD Run 2
141	13543.00	93.39	175.66	11938.61	1661.41	-1660.80	55.34	94.00	1.92	163.43	1661.72	178.09	MWD Run 2
142	13638.00	94.86	176.75	11931.78	1756.03	-1755.34	61.61	95.00	1.92	163.43	1756.42	177.99	MWD Run 2
143	13733.00	93.70	177.84	11924.69	1850.71	-1849.97	66.08	95.00	1.67	163.43	1851.15	177.95	MWD Run 2
144	13827.00	93.17	179.09	11919.05	1944.53	-1943.77	68.59	94.00	1.44	170.57	1944.98	177.98	MWD Run 2
145	13921.00	93.11	179.99	11913.91	2038.38	-2037.62	69.34	94.00	0.96	170.57	2038.80	178.05	MWD Run 2
146	14016.00	91.54	178.76	11910.05	2133.30	-2132.53	70.38	95.00	2.10	170.57	2133.69	178.11	MWD Run 2
147	14110.00	89.97	180.39	11908.81	2227.28	-2226.52	71.08	94.00	2.41	170.57	2227.65	178.17	MWD Run 2
148	14205.00	88.68	179.47	11909.93	2322.27	-2321.51	71.19	95.00	1.67	170.57	2322.60	178.24	MWD Run 2
149	14299.00	88.37	177.26	11912.35	2416.22	-2415.43	73.87	94.00	2.37	170.57	2416.56	178.25	MWD Run 2
150	14394.00	87.50	179.10	11915.78	2511.14	-2510.32	76.89	95.00	2.14	170.57	2511.49	178.25	MWD Run 2
151	14488.00	86.83	182.98	11920.43	2604.96	-2604.17	75.19	94.00	4.18	170.57	2605.25	178.35	MWD Run 2
152	14583.00	88.51	184.06	11924.29	2699.60	-2698.90	69.36	95.00	2.10	170.57	2699.80	178.53	MWD Run 2
153	14677.00	85.74	182.68	11929.00	2793.23	-2792.61	63.84	94.00	3.29	170.57	2793.34	178.69	MWD Run 2
154	14771.00	88.54	183.09	11933.69	2886.91	-2886.37	59.11	94.00	3.01	177.71	2886.97	178.83	MWD Run 2
155	14866.00	88.09	180.98	11936.49	2981.74	-2981.26	55.74	95.00	2.27	177.71	2981.78	178.93	MWD Run 2
156	14960.00	88.71	181.12	11939.11	3075.66	-3075.21	54.02	94.00	0.68	170.57	3075.68	178.99	MWD Run 2
157	15054.00	86.30	178.26	11943.20	3169.55	-3169.10	54.53	94.00	3.98	177.71	3169.57	179.01	MWD Run 2
158	15148.00	88.35	179.23	11947.59	3263.44	-3262.97	56.58	94.00	2.41	177.71	3263.46	179.01	MWD Run 2
159	15242.00	88.82	177.67	11949.91	3357.40	-3356.90	59.12	94.00	1.73	177.71	3357.42	178.99	MWD Run 2
160	15337.00	89.05	176.15	11951.68	3452.30	-3451.75	64.24	95.00	1.62	177.71	3452.34	178.93	MWD Run 2
161	15438.00	86.35	174.84	11955.73	3553.00	-3552.34	72.17	101.00	2.97	163.43	3553.07	178.84	MWD Run 3
162	15531.00	87.45	178.24	11960.76	3645.75	-3645.02	77.77	93.00	3.84	170.57	3645.85	178.78	MWD Run 3
163	15625.00	89.30	181.86	11963.43	3739.68	-3738.96	77.69	94.00	4.32	170.57	3739.77	178.81	MWD Run 3
164	15719.00	89.47	180.25	11964.44	3833.62	-3832.94	75.96	94.00	1.72	177.71	3833.69	178.88	MWD Run 3
165	15813.00	89.66	178.42	11965.15	3927.61	-3926.92	77.05	94.00	1.96	177.71	3927.68	178.88	MWD Run 3
166	15907.00	87.70	178.08	11967.32	4021.57	-4020.85	79.92	94.00	2.12	177.71	4021.65	178.86	MWD Run 3
167	16001.00	88.21	182.25	11970.67	4115.48	-4114.77	79.65	94.00	4.47	177.71	4115.54	178.89	MWD Run 3
168	16095.00	87.06	184.60	11974.55	4209.13	-4208.51	74.04	94.00	2.78	177.71	4209.17	178.99	MWD Run 3
169	16189.00	88.43	185.49	11978.25	4302.57	-4302.07	65.78	94.00	1.74	177.71	4302.58	179.12	MWD Run 3
170	16283.00	87.87	183.05	11981.28	4396.15	-4395.76	58.78	94.00	2.66	177.71	4396.15	179.23	MWD Run 3
171	16377.00	87.82	179.99	11984.82	4490.00	-4489.65	58.29	94.00	3.25	177.71	4490.00	179.28	MWD Run 3
172	16471.00	84.47	176.10	11991.14	4583.73	-4583.35	59.48	94.00	5.45	177.71	4583.73	179.26	MWD Run 3
173	16565.00	85.25	176.28	11999.56	4677.22	-4676.76	65.70	94.00	0.85	177.71	4677.22	179.20	MWD Run 3
174	16659.00	86.02	175.87	12006.72	4770.81	-4770.27	72.12	94.00	0.93	184.86	4770.81	179.13	MWD Run 3
175	16753.00	89.55	178.57	12010.35	4864.66	-4864.06	76.67	94.00	4.73	177.71	4864.67	179.10	MWD Run 3
176	16848.00	89.97	177.50	12010.75	4959.64	-4959.01	79.93	95.00	1.21	184.86	4959.65	179.08	MWD Run 3
177	16943.00	91.57	177.93	12009.47	5054.59	-5053.92	83.72	95.00	1.74	184.86	5054.61	179.05	MWD Run 3
178	17037.00	88.12	174.98	12009.73	5148.46	-5147.71	89.53	94.00	4.83	177.71	5148.49	179.00	MWD Run 3
179	17132.00	87.39	176.29	12013.45	5243.20	-5242.36	96.75	95.00	1.58	177.71	5243.26	178.94	MWD Run 3
180	17226.00	86.78	178.12	12018.23	5337.02	-5336.13	101.33	94.00	2.05	177.71	5337.09	178.91	MWD Run 3

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3014

Survey	MD	Inc	Azimuth	TVD	VS	NS	FW	Course	Length	DLS	Temp	Distance	Azimuth	Source
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186	17699.00	93.78	177.94	12031.55	5809.30	-5808.39	106.36	95.00	2.48	184.86	5809.36	178.95	MWD Run 3
187	17794.00	93.11	178.61	12025.85	5904.12	-5903.17	109.22	95.00	1.00	184.86	5904.18	178.94	MWD Run 3
188	17888.00	93.22	177.85	12020.66	5997.96	-5996.98	112.12	94.00	0.82	184.86	5998.03	178.93	MWD Run 3
189	17983.00	92.35	176.20	12016.04	6092.77	-6091.74	117.04	95.00	1.96	184.86	6092.86	178.90	MWD Run 3
190	18078.00	91.29	179.08	12013.02	6187.68	-6186.60	120.95	95.00	3.23	184.86	6187.78	178.88	MWD Run 3
191	18172.00	91.93	178.88	12010.38	6281.64	-6280.55	122.62	94.00	0.71	184.86	6281.74	178.88	MWD Run 3
192	18267.00	91.18	180.22	12007.80	6376.60	-6375.51	123.37	95.00	1.62	184.86	6376.70	178.89	MWD Run 3
193	18362.00	89.36	181.03	12007.35	6471.57	-6470.49	122.33	95.00	2.10	184.86	6471.65	178.92	MWD Run 3
194	18456.00	91.09	181.74	12006.99	6565.49	-6564.46	120.06	94.00	1.99	184.86	6565.56	178.95	MWD Run 3
195	18576.00	90.81	183.14	12005.00	6685.28	-6684.33	114.95	120.00	1.19	185.53	6685.32	179.01	MWD Run 4
196	18670.00	90.92	183.77	12003.58	6779.01	-6778.15	109.29	94.00	0.68	189.06	6779.03	179.08	MWD Run 4
197	18765.00	91.47	181.07	12001.60	6873.84	-6873.04	105.28	95.00	2.90	190.82	6873.84	179.12	MWD Run 4
198	18859.00	91.85	179.42	11998.88	6967.78	-6966.99	104.88	94.00	1.80	192.59	6967.78	179.14	MWD Run 4
199	18954.00	91.48	180.97	11996.12	7062.72	-7061.95	104.55	95.00	1.68	190.82	7062.72	179.15	MWD Run 4
200	19049.00	91.29	179.18	11993.82	7157.68	-7156.92	104.43	95.00	1.89	192.59	7157.68	179.16	MWD Run 4
201	19143.00	91.51	182.41	11991.52	7251.60	-7250.87	103.12	94.00	3.44	194.35	7251.60	179.19	MWD Run 4
202	19238.00	90.98	179.53	11989.46	7346.52	-7345.82	101.52	95.00	3.08	196.12	7346.52	179.21	MWD Run 4
203	19333.00	91.35	178.88	11987.53	7441.50	-7440.79	102.84	95.00	0.79	194.35	7441.50	179.21	MWD Run 4
204	19427.00	89.97	176.92	11986.44	7535.47	-7534.72	106.28	94.00	2.55	194.35	7535.47	179.19	MWD Run 4
205	19522.00	90.11	178.42	11986.38	7630.43	-7629.64	110.14	95.00	1.59	196.12	7630.43	179.17	MWD Run 4
206	19616.00	89.72	175.85	11986.52	7724.36	-7723.51	114.84	94.00	2.77	197.88	7724.36	179.15	MWD Run 4
207	19711.00	88.60	177.94	11987.91	7819.26	-7818.35	119.98	95.00	2.50	197.88	7819.27	179.12	MWD Run 4
208	19806.00	88.90	180.46	11989.98	7914.23	-7913.31	121.31	95.00	2.67	197.88	7914.24	179.12	MWD Run 4
209	19900.00	91.01	177.34	11990.06	8008.22	-8007.28	123.11	94.00	4.01	0.00	8008.23	179.12	MWD Run 4
210	19995.00	89.47	180.35	11989.66	8103.20	-8102.25	125.03	95.00	3.56	197.88	8103.21	179.12	MWD Run 4
211	20090.00	90.50	179.50	11989.88	8198.19	-8197.24	125.15	95.00	1.41	197.88	8198.20	179.13	MWD Run 4
212	20185.00	89.22	178.32	11989.92	8293.18	-8292.22	126.96	95.00	1.83	197.88	8293.19	179.12	MWD Run 4
213	20279.00	89.92	179.53	11990.62	8387.18	-8386.20	128.72	94.00	1.49	197.88	8387.19	179.12	MWD Run 4
214	20374.00	89.27	178.39	11991.29	8482.17	-8481.18	130.45	95.00	1.38	194.35	8482.18	179.12	MWD Run 4
215	20469.00	87.26	179.14	11994.17	8577.12	-8576.11	132.50	95.00	2.26	197.88	8577.13	179.11	MWD Run 4
216	20564.00	90.48	180.52	11996.04	8672.08	-8671.08	132.78	95.00	3.69	197.88	8672.09	179.12	MWD Run 4
217	20658.00	88.85	177.61	11996.59	8766.07	-8765.05	134.31	94.00	3.55	192.59	8766.08	179.12	MWD Run 4
218	20753.00	88.32	175.39	11998.94	8860.93	-8859.84	140.11	95.00	2.40	196.12	8860.94	179.09	MWD Run 4
219	20848.00	87.11	175.98	12002.73	8955.67	-8954.49	147.25	95.00	1.42	194.35	8955.70	179.06	MWD Run 4
220	20942.00	85.12	179.42	12009.10	9049.40	-9048.18	151.02	94.00	4.22	196.12	9049.44	179.04	MWD Run 4
221	21037.00	86.78	179.52	12015.81	9144.16	-9142.93	151.89	95.00	1.75	196.12	9144.20	179.05	MWD Run 4
222	21131.00	87.28	179.53	12020.68	9238.03	-9236.80	152.67	94.00	0.53	196.12	9238.07	179.05	MWD Run 4
223	21226.00	85.60	180.16	12026.57	9332.84	-9331.62	152.93	95.00	1.89	194.35	9332.87	179.06	MWD Run 4
224	21321.00	88.46	182.43	12031.50	9427.63	-9426.45	150.78	95.00	3.84	197.88	9427.65	179.08	MWD Run 4
225	21415.00	86.41	180.76	12035.70	9521.45	-9520.31	148.17	94.00	2.81	197.88	9521.46	179.11	MWD Run 4
226	21509.00	88.68	183.32	12039.73	9615.23	-9614.15	144.82	94.00	3.64	197.88	9615.24	179.14	MWD Run 4
227	21604.00	87.36	181.29	12043.01	9710.03	-9709.01	141.00	95.00	2.55	197.88	9710.03	179.17	MWD Run 4
228	21699.00	85.65	178.26	12048.81	9804.83	-9803.82	141.37	95.00	3.66	197.88	9804.84	179.17	MWD Run 4
229	21793.00	86.75	177.05	12055.04	9898.59	-9897.53	145.21	94.00	1.74	196.12	9898.59	179.16	MWD Run 4
230	21887.00	85.94	180.26	12061.03	9992.38	-9991.30	147.41	94.00	3.52	196.12	9992.39	179.15	MWD Run 4
231	21982.00	88.40	178.57	12065.72	10087.25	-10086.17	148.38	95.00	3.14	196.12	10087.26	179.16	MWD Run 4
232	22076.00	86.41	176.91	12069.98	10181.12	-10179.99	152.09	94.00	2.76	196.12	10181.13	179.14	MWD Run 4
233	22170.00	86.30	179.20	12075.95	10274.90	-10273.74	155.27	94.00	2.43	196.12	10274.91	179.13	MWD Run 4
234	22264.00	85.57	177.21	12082.62	10368.65	-10367.45	158.21	94.00	2.25	196.12	10368.66	179.13	MWD Run 4
235	22359.00	87.14	176.31	12088.66	10463.36	-10462.10	163.56	95.00	1.90	197.88	10463.38	179.10	MWD Run 4
236	22453.00	89.61	178.43	12091.32	10557.27	-10555.95	167.87	94.00	3.46	197.88	10557.29	179.09	MWD Run 4
237	22548.00	86.64	176.99	12094.43	10652.17	-10650.81	171.67	95.00	3.47	197.88	10652.20	179.08	MWD Run 4
238	22573.00	85.65	176.98	12096.11	10677.09	-10675.72	172.98	25.00	3.96	197.88	10677.12	179.07	MWD Run 4
239	22612.00	85.65	176.98	12099.07	10715.95	-10714.56	175.03	39.00	0.00	0.00	10715.99	179.06	MWD Run 4