

30-025-43385



ALTITUDE
ENERGY PARTNERS

HOBBS OCD
MAR 09 2018
RECEIVED

State of New Mexico

I, Ryan Nelson, an authorized employee of Altitude Energy Partners, Inc.,
have verified the Measurement While Drilling surveys performed on 12-29-2017
through 01-24-2018, from 1,437 ft. to a depth 16,769 ft.

I certify that the data is true, correct, complete and within the limitations of the tool as
set forth by Altitude Energy Partners, Inc. This survey was conducted at the request of
Centennial Resource Development, Inc. for the Juliet Federal Com 1H well in
Lea County, State of New Mexico.

Sincerely,

Ryan Nelson
Operations Coordinator



Survey Report

11/28/2017 15:00:00 AM

Service Company: Altitude Energy Partners

Location: Lea County

Well: Crazy Wolf 1/2 B2MM Federal Com 1H

Rig: H & P 650

API or UWI:

Job Number: AEP-1786

State: New Mexico

Operating Company: Centennial Resource Development LLC

County: Lea County

Magnetic Declination: 7.7

Country: United States

Proposed Azimuth: 175.99

Comment:

North Reference: TRUE

Latitude: 32° 12' 33.086 N

Longitude: 103° 27' 35.875W

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
1275.66	0.80	81.60	1275.61	5.96	8.44

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS	TEMP
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
70.80	0.16	62.83	70.80	0.05	0.09	62.83	0.10	-0.04	0.23	
157.05	0.69	57.79	157.05	0.38	0.63	59.29	0.74	-0.33	0.62	
247.84	0.67	45.73	247.83	1.04	1.48	54.88	1.81	-0.93	0.16	
340.66	0.60	42.22	340.65	1.78	2.19	50.96	2.82	-1.62	0.09	
434.01	0.37	48.62	433.99	2.34	2.75	49.59	3.61	-2.14	0.25	
528.42	0.25	35.44	528.40	2.71	3.10	48.81	4.11	-2.49	0.15	
622.80	0.32	64.30	22045.00	2.99	3.45	49.10	4.57	-2.74	0.17	
717.18	0.35	65.05	717.16	3.23	3.95	50.77	5.10	-2.94	0.03	
811.36	0.46	67.33	811.33	3.49	4.56	52.55	5.74	-3.17	0.12	

904.82	0.49	65.16	904.79	3.81	5.27	54.16	6.50	-3.43	0.04	
998.04	0.53	59.96	998.01	4.19	6.00	55.10	7.32	-3.76	0.07	
1091.29	0.65	42.29	1091.25	4.80	6.73	54.54	8.27	-4.31	0.23	
1184.82	0.62	46.78	1184.78	5.54	7.46	53.42	9.29	-5.00	0.06	
1275.66	0.80	81.60	1275.61	5.96	8.44	54.77	10.34	-5.36	0.50	
1343.00	0.61	56.55	1342.95	6.23	9.21	55.92	11.12	-5.57	0.53	84.9°F
1437.00	0.52	29.49	1436.94	6.88	9.84	55.04	12.00	-6.17	0.30	84.9°F
1531.00	0.48	4.53	1530.94	7.64	10.08	52.83	12.65	-6.92	0.23	84.9°F
1625.00	0.57	21.49	1624.93	8.47	10.28	50.52	13.32	-7.73	0.19	84.9°F
1719.00	0.62	6.58	1718.93	9.41	10.51	48.16	14.11	-8.65	0.17	84.9°F
1814.00	0.73	328.24	1813.92	10.43	10.25	44.49	14.63	-9.69	0.48	84.9°F
1908.00	0.68	354.35	1907.92	11.50	9.88	40.67	15.16	-10.78	0.34	92.0°F
2002.00	0.63	355.02	2001.91	12.57	9.78	37.89	15.93	-11.85	0.05	92.0°F
2096.00	0.63	10.70	2095.90	13.59	9.83	35.88	16.77	-12.87	0.18	92.0°F
2190.00	0.43	27.09	2189.90	14.41	10.09	34.99	17.59	-13.67	0.26	92.0°F
2285.00	0.79	353.33	2284.89	15.38	10.17	33.48	18.44	-14.63	0.52	99.0°F
2380.00	0.82	352.78	2379.88	16.71	10.01	30.94	19.48	-15.96	0.03	99.0°F
2474.00	0.53	340.92	2473.88	17.78	9.79	28.82	20.30	-17.06	0.34	99.0°F
2568.00	0.77	344.74	2567.87	18.80	9.48	26.75	21.06	-18.10	0.26	99.0°F
2663.00	0.72	340.68	2662.86	19.98	9.11	24.51	21.96	-19.30	0.08	99.0°F
2757.00	0.78	346.09	2756.86	21.16	8.76	22.49	22.90	-20.50	0.10	106.3°F
2851.00	0.72	348.23	2850.85	22.36	8.49	20.79	23.92	-21.71	0.07	106.3°F
2945.00	0.71	356.32	2944.84	23.52	8.33	19.50	24.95	-22.88	0.11	106.3°F
3040.00	0.71	359.29	3039.83	24.70	8.29	18.55	26.05	-24.06	0.04	106.3°F
3134.00	0.39	278.16	3133.83	25.32	7.96	17.45	26.55	-24.71	0.80	106.3°F
3228.00	0.34	257.81	3227.83	25.31	7.37	16.24	26.36	-24.73	0.15	113.4°F
3322.00	0.12	198.13	3321.83	25.16	7.07	15.69	26.13	-24.60	0.32	113.4°F
3416.00	0.24	172.53	3415.83	24.87	7.06	15.86	25.85	-24.31	0.15	113.4°F
3510.00	0.35	149.02	3509.83	24.43	7.24	16.50	25.48	-23.86	0.17	113.4°F
3604.00	0.31	119.99	3603.82	24.05	7.61	17.55	25.23	-23.46	0.18	113.4°F
3698.00	0.33	108.02	3697.82	23.84	8.08	18.73	25.18	-23.22	0.07	113.4°F
3793.00	0.37	88.99	3792.82	23.76	8.65	20.00	25.29	-23.10	0.13	113.4°F
3887.00	0.59	178.92	3886.82	23.29	8.96	21.05	24.95	-22.60	0.74	113.4°F
3981.00	0.63	186.70	3980.81	22.29	8.91	21.79	24.00	-21.61	0.10	113.4°F

Tie-In

4075.00	0.26	173.13	4074.81	21.56	8.88	22.37	23.32	-20.89	0.41	120.6°F
4170.00	0.31	161.08	4169.81	21.11	8.99	23.06	22.94	-20.43	0.08	120.6°F
4264.00	0.35	154.91	4263.81	20.61	9.19	24.04	22.56	-19.91	0.06	120.6°F
4358.00	0.41	140.06	4357.81	20.09	9.53	25.37	22.23	-19.37	0.12	120.6°F
4453.00	0.37	112.59	4452.80	19.71	10.03	26.97	22.11	-18.96	0.20	120.6°F
4547.00	0.64	104.08	4546.80	19.47	10.82	29.06	22.27	-18.66	0.30	120.6°F
4641.00	1.51	127.20	4640.78	18.59	12.31	33.52	22.30	-17.68	1.02	120.6°F
4735.00	1.41	144.25	4734.75	16.90	13.98	39.59	21.93	-15.88	0.47	120.6°F
4830.00	0.18	40.07	4829.74	16.07	14.76	42.56	21.81	-15.00	1.54	120.6°F
4924.00	0.59	51.54	4923.74	16.48	15.23	42.74	22.44	-15.38	0.44	120.6°F
5018.00	1.03	90.37	5017.73	16.78	16.45	44.44	23.50	-15.59	0.72	120.6°F
5112.00	1.11	130.64	5111.72	16.18	17.99	48.03	24.19	-14.88	0.79	120.6°F
5206.00	1.44	132.66	5205.69	14.79	19.55	52.90	24.51	-13.38	0.35	120.6°F
5300.00	1.31	112.40	5299.67	13.58	21.41	57.62	25.35	-12.04	0.53	120.6°F
5395.00	0.92	127.94	5394.65	12.69	23.02	61.12	26.28	-11.05	0.52	120.6°F
5489.00	0.84	130.49	5488.64	11.78	24.14	63.98	26.86	-10.06	0.09	120.6°F
5583.00	0.75	132.87	5582.63	10.92	25.11	66.51	27.38	-9.13	0.10	120.6°F
5677.00	0.60	115.72	5676.62	10.28	26.00	68.42	27.96	-8.44	0.27	127.7°F
5772.00	0.28	280.78	5771.62	10.11	26.22	68.92	28.11	-8.25	0.92	120.6°F
5866.00	0.43	268.30	5865.62	10.14	25.65	68.42	27.58	-8.32	0.18	120.6°F
5960.00	0.45	260.21	5959.62	10.07	24.93	68.01	26.89	-8.30	0.07	120.6°F
6054.00	0.26	258.07	6053.61	9.96	24.36	67.75	26.32	-8.24	0.20	120.6°F
6149.00	0.35	225.50	6148.61	9.71	23.94	67.91	25.84	-8.02	0.20	120.6°F
6243.00	0.25	229.51	6242.61	9.38	23.58	68.31	25.38	-7.71	0.11	120.6°F
6337.00	0.23	215.06	6336.61	9.09	23.31	68.69	25.02	-7.44	0.07	120.6°F
6431.00	0.09	236.08	6430.61	8.90	23.14	68.97	24.80	-7.26	0.16	120.6°F
6526.00	0.34	274.20	6525.61	8.88	22.80	68.73	24.47	-7.26	0.29	120.6°F
6620.00	0.33	289.81	6619.61	8.99	22.27	68.02	24.01	-7.41	0.10	120.6°F
6714.00	0.34	285.57	6713.61	9.16	21.75	67.17	23.59	-7.61	0.03	120.6°F
6808.00	0.26	274.61	6807.60	9.25	21.26	66.50	23.19	-7.74	0.10	120.6°F
6902.00	0.03	288.23	6901.60	9.27	21.03	66.21	22.98	-7.78	0.25	120.6°F
6997.00	0.28	242.66	6996.60	9.17	20.80	66.20	22.73	-7.70	0.27	120.6°F
7091.00	0.22	274.92	7090.60	9.08	20.41	66.01	22.34	-7.63	0.16	120.6°F
7185.00	0.36	265.50	7184.60	9.08	19.94	65.53	21.91	-7.66	0.16	120.6°F

7279.00	0.36	276.04	7278.60	9.08	19.35	64.86	21.38	-7.71	0.07	127.7°F
7373.00	0.34	275.32	7372.60	9.14	18.78	64.05	20.89	-7.80	0.02	127.7°F
7467.00	0.39	239.88	7466.60	9.01	18.23	63.71	20.33	-7.71	0.24	127.7°F
7561.00	0.30	273.12	7560.59	8.86	17.70	63.42	19.80	-7.60	0.23	127.7°F
7656.00	0.34	249.24	7655.59	8.77	17.19	62.97	19.30	-7.55	0.15	127.7°F
7750.00	0.26	256.50	7749.59	8.62	16.72	62.72	18.82	-7.43	0.09	120.6°F
7844.00	0.18	233.44	7843.59	8.49	16.40	62.64	18.46	-7.32	0.13	127.7°F
7938.00	0.24	183.99	7937.59	8.20	16.27	63.24	18.22	-7.04	0.20	120.6°F
8033.00	0.26	198.26	8032.59	7.80	16.18	64.27	17.97	-6.65	0.07	127.7°F
8127.00	0.37	176.90	8126.59	7.29	16.13	65.68	17.71	-6.15	0.17	127.7°F
8221.00	0.34	175.09	8220.59	6.71	16.17	67.46	17.51	-5.56	0.03	127.7°F
8315.00	0.27	170.89	8314.58	6.22	16.23	69.05	17.38	-5.06	0.08	127.7°F
8409.00	0.75	202.87	8408.58	5.43	16.03	71.29	16.92	-4.30	0.57	127.7°F
8504.00	0.86	204.94	8503.57	4.21	15.49	74.79	16.05	-3.12	0.12	127.7°F
8598.00	0.84	216.19	8597.56	3.01	14.78	78.47	15.09	-1.97	0.18	127.7°F
8692.00	0.74	222.39	8691.55	2.01	13.97	81.81	14.11	-1.03	0.14	127.7°F
8786.00	0.75	222.27	8785.54	1.11	13.14	85.19	13.19	-0.18	0.01	134.9°F
8880.00	0.71	232.18	8879.54	0.29	12.27	88.63	12.27	0.56	0.14	134.9°F
8975.00	0.67	233.52	8974.53	-0.40	11.36	92.00	11.37	1.19	0.05	113.4°F
9069.00	0.88	231.38	9068.52	-1.17	10.35	96.47	10.42	1.90	0.23	120.6°F
9163.00	0.90	231.30	9162.51	-2.09	9.21	102.76	9.45	2.73	0.02	127.7°F
9258.00	0.75	219.58	9257.50	-3.03	8.23	110.22	8.77	3.60	0.24	127.7°F
9352.00	0.79	221.86	9351.49	-3.99	7.41	118.30	8.41	4.50	0.05	134.9°F
9446.00	0.67	224.91	9445.48	-4.86	6.59	126.42	8.19	5.31	0.13	134.9°F
9540.00	0.71	219.51	9539.48	-5.70	5.83	134.35	8.15	6.09	0.08	134.9°F
9634.00	0.67	219.71	9633.47	-6.57	5.11	142.14	8.32	6.91	0.04	134.9°F
9729.00	0.94	196.06	9728.46	-7.75	4.54	149.64	8.98	8.05	0.44	142.0°F
9823.00	1.07	198.50	9822.45	-9.32	4.05	156.53	10.16	9.58	0.15	127.7°F
9917.00	0.78	192.20	9916.43	-10.78	3.63	161.37	11.37	11.01	0.33	134.9°F
10011.00	0.80	185.82	10010.42	-12.06	3.43	164.12	12.54	12.27	0.10	127.7°F
10105.00	1.41	117.55	10104.41	-13.24	4.39	161.66	13.95	13.52	1.42	120.6°F
10199.00	2.48	104.43	10198.36	-14.29	7.38	152.66	16.08	14.77	1.23	127.7°F
10294.00	3.97	98.17	10293.20	-15.27	12.63	140.40	19.81	16.11	1.61	134.9°F
10388.00	5.31	95.56	10386.89	-16.15	20.18	128.67	25.85	17.52	1.44	120.6°F

10482.00	5.57	97.08	10480.47	-17.13	29.04	120.54	33.72	19.12	0.32	127.7°F
10576.00	5.17	92.19	10574.06	-17.86	37.80	115.29	41.80	20.46	0.65	134.9°F
10670.00	4.70	92.17	10667.71	-18.17	45.88	111.60	49.34	21.33	0.50	134.9°F
10764.00	3.90	81.51	10761.44	-17.84	52.89	108.64	55.82	21.49	1.20	142.0°F
10859.00	4.38	85.85	10856.20	-17.10	59.70	105.98	62.10	21.23	0.60	142.0°F
10953.00	4.54	84.18	10949.91	-16.46	66.98	103.81	68.98	21.11	0.22	142.0°F
11047.00	3.86	90.11	11043.66	-16.09	73.85	102.29	75.58	21.22	0.86	142.0°F
11142.00	4.18	97.58	11138.43	-16.55	80.48	101.62	82.16	22.14	0.65	134.9°F
11235.00	4.95	97.46	11231.13	-17.52	87.82	101.28	89.55	23.62	0.83	142.0°F
11330.00	6.02	97.73	11325.69	-18.72	96.82	100.95	98.61	25.45	1.13	142.0°F
11424.00	6.41	100.12	11419.14	-20.31	106.87	100.76	108.78	27.73	0.50	149.1°F
11518.00	7.22	98.70	11512.48	-22.13	117.87	100.63	119.93	30.31	0.88	149.1°F
11578.00	7.25	100.31	11572.00	-23.37	125.32	100.56	127.48	32.08	0.34	149.1°F
11682.00	5.71	101.72	11675.33	-25.60	136.85	100.60	139.22	35.11	1.49	149.1°F
11776.00	4.80	101.41	11768.93	-27.33	145.28	100.65	147.83	37.42	0.97	149.1°F
11870.00	2.66	126.96	11862.74	-29.42	150.88	101.03	153.72	39.90	2.83	149.1°F
11901.00	3.47	141.37	11893.69	-30.58	152.04	101.37	155.08	41.14	3.59	149.1°F
11932.00	5.20	152.91	11924.60	-32.57	153.26	102.00	156.69	43.20	6.22	149.1°F
11964.00	7.23	156.38	11956.41	-35.70	154.73	102.99	158.80	46.43	6.45	149.1°F
11995.00	10.25	157.15	11987.05	-40.03	156.59	104.34	161.62	50.88	9.75	149.1°F
12027.00	12.66	155.89	12018.41	-45.86	159.12	106.08	165.60	56.87	7.57	149.1°F
12058.00	14.57	153.61	12048.54	-52.45	162.24	107.92	170.51	63.67	6.40	149.1°F
12089.00	16.66	153.81	12078.39	-59.93	165.94	109.86	176.43	71.39	6.74	134.9°F
12120.00	19.70	155.84	12107.84	-68.69	170.04	112.00	183.39	80.41	10.02	142.0°F
12152.00	23.89	157.63	12137.55	-79.61	174.72	114.50	192.00	91.63	13.26	149.1°F
12183.00	29.32	162.64	12165.26	-92.67	179.37	117.32	201.90	104.99	18.94	142.0°F
12214.00	33.88	164.96	12191.66	-108.27	183.88	120.49	213.39	120.86	15.22	149.1°F
12246.00	38.44	165.73	12217.49	-126.53	188.65	123.85	227.15	139.41	14.32	149.1°F
12298.00	48.94	167.53	12255.03	-161.44	196.89	129.35	254.61	174.81	20.33	127.7°F
12329.00	55.23	168.26	12274.07	-185.34	202.01	132.54	274.15	199.01	20.37	127.7°F
12360.00	60.66	167.97	12290.52	-211.04	207.42	135.50	295.91	225.03	17.53	134.9°F
12391.00	65.19	167.76	12304.63	-238.02	213.23	138.14	319.56	252.35	14.63	134.9°F
12423.00	67.58	168.09	12317.45	-266.69	219.36	140.56	345.31	281.37	7.53	142.0°F
12454.00	69.26	168.46	12328.85	-294.91	225.21	142.63	371.07	309.94	5.53	142.0°F

12486.00	71.76	168.88	12339.52	-324.49	231.14	144.54	398.39	339.86	7.91	149.1°F
12517.00	73.75	169.57	12348.71	-353.57	236.67	146.20	425.47	369.26	6.76	149.1°F
12548.00	75.52	170.29	12356.93	-383.00	241.90	147.72	453.00	398.98	6.13	149.1°F
12580.00	76.45	170.75	12364.68	-413.62	247.01	149.15	481.77	429.89	3.22	149.1°F
12611.00	78.49	170.98	12371.40	-443.50	251.82	150.41	510.00	460.02	6.62	149.1°F
12642.00	80.11	171.64	12377.16	-473.61	256.42	151.57	538.57	490.38	5.63	149.1°F
12673.00	84.24	172.24	12381.38	-504.01	260.72	152.65	567.45	521.01	13.46	149.1°F
12705.00	89.24	169.92	12383.20	-535.56	265.68	153.62	597.84	552.83	17.22	149.1°F
12736.00	93.25	166.68	12382.52	-565.90	271.96	154.33	627.86	583.53	16.63	156.3°F
12750.00	93.73	166.41	12381.67	-579.55	274.95	154.62	641.46	597.36	14.18	149.1°F
12844.00	90.25	167.77	12378.41	-671.78	292.74	156.45	732.79	690.60	3.83	149.1°F
12938.00	92.07	168.11	12376.50	-764.28	309.33	157.97	824.50	784.04	2.03	163.4°F
13032.00	89.52	168.76	12375.20	-855.02	334.67	158.62	918.18	876.33	2.80	163.4°F
13094.00	88.01	168.88	12376.53	-915.83	346.69	159.27	979.25	937.83	2.44	163.4°F
13125.00	89.83	171.64	12377.12	-946.37	351.93	159.60	1009.69	968.67	10.66	163.4°F
13219.00	89.19	178.74	12377.92	-1039.98	359.81	160.92	1100.46	1062.59	7.58	170.6°F
13313.00	91.74	181.83	12377.16	-1133.95	359.34	162.42	1189.53	1156.31	4.26	170.6°F
13408.00	90.84	181.62	12375.02	-1228.88	356.48	163.82	1279.55	1250.81	0.97	170.6°F
13502.00	89.10	180.56	12375.07	-1322.86	354.69	164.99	1369.59	1344.43	2.17	170.6°F
13596.00	89.16	178.21	12376.50	-1416.84	355.70	165.91	1460.81	1438.25	2.50	163.4°F
13690.00	91.20	179.91	12376.20	-1510.82	357.24	166.70	1552.48	1532.10	2.82	163.4°F
13785.00	92.16	179.17	12373.42	-1605.77	358.01	167.43	1645.20	1626.88	1.28	163.4°F
13880.00	86.95	179.11	12374.16	-1700.73	359.43	168.07	1738.29	1721.70	5.48	170.6°F
13911.00	87.48	178.86	12375.66	-1731.68	359.98	168.26	1768.71	1752.62	1.89	163.4°F
13943.00	89.10	179.16	12376.62	-1763.66	360.53	168.45	1800.14	1784.56	5.15	170.6°F
13974.00	92.21	179.61	12376.26	-1794.66	360.87	168.63	1830.58	1815.50	10.14	170.6°F
14005.00	93.31	179.41	12374.77	-1825.62	361.13	168.81	1860.99	1846.40	3.61	170.6°F
14036.00	92.61	178.09	12373.17	-1856.57	361.81	168.97	1891.50	1877.33	4.81	170.6°F
14068.00	92.49	178.81	12371.75	-1888.53	362.67	169.13	1923.03	1909.26	2.28	177.7°F
14099.00	93.14	179.82	12370.22	-1919.49	363.04	169.29	1953.52	1940.17	3.87	177.7°F
14131.00	92.94	180.92	12368.53	-1951.44	362.83	169.47	1984.88	1972.04	3.49	177.7°F
14162.00	92.77	182.86	12366.98	-1982.38	361.81	169.66	2015.13	2002.83	6.27	177.7°F
14256.00	94.18	185.24	12361.28	-2075.97	355.19	170.29	2106.13	2095.72	2.94	177.7°F
14351.00	92.83	182.16	12355.47	-2170.58	349.07	170.86	2198.47	2189.67	3.53	177.7°F

14445.00	90.81	182.46	12352.49	-2264.45	345.29	171.33	2290.62	2283.05	2.17	177.7°F
14539.00	90.76	181.06	12351.20	-2358.39	342.40	171.74	2383.12	2376.56	1.49	184.9°F
14633.00	90.28	180.41	12350.35	-2452.38	341.19	172.08	2476.00	2470.24	0.86	184.9°F
14728.00	89.92	180.09	12350.18	-2547.38	340.78	172.38	2570.07	2564.97	0.51	184.9°F
14822.00	92.10	178.62	12348.53	-2641.35	341.84	172.63	2663.38	2658.79	2.80	184.9°F
14915.00	90.62	179.46	12346.32	-2734.31	343.39	172.84	2755.79	2751.63	1.83	184.9°F
15009.00	89.24	178.88	12346.43	-2828.30	344.76	173.05	2849.23	2845.48	1.59	184.9°F
15104.00	89.27	178.87	12347.67	-2923.27	346.62	173.24	2943.75	2940.35	0.03	177.7°F
15199.00	87.87	179.67	12350.04	-3018.23	347.83	173.43	3038.21	3035.16	1.70	184.9°F
15293.00	88.77	179.22	12352.79	-3112.18	348.74	173.61	3131.66	3128.95	1.07	184.9°F
15386.00	87.62	179.94	12355.72	-3205.13	349.42	173.78	3224.12	3221.72	1.46	184.9°F
15480.00	88.21	178.61	12359.14	-3299.06	350.61	173.93	3317.64	3315.50	1.55	184.9°F
15575.00	89.55	178.13	12361.00	-3394.00	353.31	174.06	3412.34	3410.40	1.50	184.9°F
15668.00	89.97	180.31	12361.39	-3486.99	354.58	174.19	3504.97	3503.25	2.39	184.9°F
15762.00	89.61	182.25	12361.74	-3580.96	352.48	174.38	3598.26	3596.84	2.10	184.9°F
15857.00	88.35	183.23	12363.43	-3675.83	347.94	174.59	3692.26	3691.16	1.68	184.9°F
15951.00	87.93	183.51	12366.48	-3769.62	342.42	174.81	3785.14	3784.33	0.54	184.9°F
16013.00	88.60	181.71	12368.35	-3831.52	339.59	174.94	3846.54	3845.89	3.10	184.9°F
16045.00	87.45	180.37	12369.46	-3863.50	339.01	174.99	3878.34	3877.75	5.52	184.9°F
16076.00	86.75	179.89	12371.03	-3894.46	338.94	175.03	3909.18	3908.63	2.74	184.9°F
16107.00	85.99	179.71	12372.99	-3925.39	339.05	175.06	3940.01	3939.49	2.52	184.9°F
16139.00	86.39	179.13	12375.11	-3957.32	339.37	175.10	3971.85	3971.37	2.20	184.9°F
16171.00	86.58	178.29	12377.08	-3989.25	340.09	175.13	4003.72	4003.27	2.69	184.9°F
16202.00	87.31	177.15	12378.73	-4020.18	341.33	175.15	4034.65	4034.21	4.36	184.9°F
16233.00	88.12	177.78	12379.96	-4051.13	342.70	175.16	4065.60	4065.18	3.31	184.9°F
16264.00	88.71	179.41	12380.82	-4082.11	343.46	175.19	4096.53	4096.13	5.59	184.9°F
16296.00	88.35	179.99	12381.64	-4114.09	343.62	175.23	4128.42	4128.05	2.13	184.9°F
16327.00	88.26	180.16	12382.56	-4145.08	343.58	175.26	4159.30	4158.96	0.62	184.9°F
16358.00	88.46	180.28	12383.45	-4176.07	343.46	175.30	4190.17	4189.86	0.75	184.9°F
16389.00	89.22	179.93	12384.08	-4207.06	343.41	175.33	4221.05	4220.78	2.70	177.7°F
16421.00	88.88	179.98	12384.61	-4239.06	343.43	175.37	4252.95	4252.70	1.07	170.6°F
16452.00	86.69	181.15	12385.80	-4270.03	343.13	175.41	4283.79	4283.57	8.01	170.6°F
16484.00	86.64	181.72	12387.67	-4301.97	342.33	175.45	4315.56	4315.37	1.79	170.6°F
16515.00	85.23	182.13	12389.86	-4332.87	341.29	175.50	4346.29	4346.13	4.74	177.7°F

[illegible]