



Berry Farms 8-7HZ

02/02/2023 TO 02/07/2023



Company: Occidental Petroleum

State/Province: Colorado

Survey Company: Altitude Energy Partners LLC

Well Name: Berry Farms 8-7HZ

County: Weld

Job Number: AEP-RM-230099

Field: DJ Basin

Country: United States of America

Direction: 94.23

Rig ID: Precision 461

Declination: 7.775

Elevation KB: 20

API: 05-123-51864

North Reference: True

DF: 4817

Location: Berry Farms Pad

Latitude/Longitude: 40.243720 / -104.908022

GL: 4837

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL	MagDip	MTot	GTot	Bottom Hole Temp
TieIn	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	0.00				
1	7.00	0.00	0.00	7.00	0.00	0.00	0.00	0.00	90.00	0.00	7.00				
2	86.00	0.34	157.03	86.00	-0.22	0.09	0.11	0.23	157.03	0.43	79.00				
3	178.00	0.24	356.06	178.00	-0.27	0.18	0.20	0.33	146.10	0.62	92.00				
4	270.00	0.54	0.79	270.00	0.35	0.18	0.15	0.39	26.84	0.33	92.00				
5	360.00	1.12	159.59	359.99	-0.05	0.49	0.49	0.49	95.77	1.82	90.00				
6	449.00	2.96	156.02	448.93	-2.96	1.73	1.94	3.43	149.77	2.07	89.00				
7	539.00	5.30	159.40	538.69	-8.98	4.13	4.79	9.89	155.28	2.61	90.00				
8	628.00	5.63	162.87	627.29	-17.00	6.87	8.10	18.33	158.00	0.52	89.00				
9	718.00	7.43	159.64	716.70	-26.67	10.19	12.13	28.56	159.09	2.04	90.00				
10	807.00	8.31	159.13	804.86	-38.08	14.49	17.25	40.74	159.17	0.99	89.00				
11	897.00	10.16	164.89	893.69	-51.82	18.87	22.64	55.15	159.99	2.30	90.00				
12	987.00	10.89	164.29	982.18	-67.67	23.24	28.17	71.55	161.04	0.82	90.00				
13	1076.00	12.15	165.82	1069.38	-84.84	27.81	34.00	89.29	161.85	1.46	89.00				
14	1166.00	13.37	165.03	1157.16	-104.08	32.82	40.41	109.13	162.50	1.37	90.00				
15	1255.00	13.76	163.74	1243.68	-124.18	38.44	47.50	130.00	162.80	0.55	89.00				
16	1345.00	13.86	164.68	1331.08	-144.85	44.29	54.85	151.47	163.00	0.27	90.00				
17	1434.00	15.53	166.02	1417.16	-166.70	49.98	62.14	174.03	163.31	1.91	89.00				
18	1523.00	15.97	166.51	1502.82	-190.17	55.72	69.59	198.16	163.67	0.52	89.00				
19	1613.00	16.15	163.60	1589.31	-214.21	62.14	77.77	223.04	163.82	0.92	90.00				
20	1703.00	15.90	162.75	1675.81	-237.99	69.33	86.70	247.89	163.76	0.38	90.00				
21	1792.00	16.32	162.71	1761.32	-261.58	76.66	95.75	272.58	163.67	0.47	89.00				
22	1861.00	17.22	164.43	1827.38	-280.67	82.29	102.76	292.49	163.66	1.49	69.00				
23	1997.00	16.09	162.31	1957.68	-318.02	93.42	116.62	331.46	163.63	0.94	136.00	66.62	0.5172	0.9990	83.30
24	2091.00	17.49	167.63	2047.67	-344.23	100.40	125.52	358.57	163.74	2.21	94.00	66.80	0.5180	0.9992	83.30
25	2184.00	18.81	167.72	2136.04	-372.53	106.58	133.77	387.48	164.03	1.42	93.00	66.80	0.5180	0.9992	85.70
26	2276.00	17.75	165.95	2223.40	-400.63	113.14	142.39	416.30	164.23	1.30	92.00	66.80	0.5180	0.9992	85.70
27	2371.00	16.77	164.48	2314.12	-427.88	120.33	151.56	444.48	164.29	1.13	95.00	66.71	0.5172	0.9992	88.10
28	2464.00	16.63	165.06	2403.20	-453.67	127.35	160.46	471.21	164.32	0.23	93.00	66.80	0.5180	0.9992	90.50
29	2558.00	16.41	165.56	2493.32	-479.53	134.13	169.13	497.93	164.37	0.28	94.00	66.80	0.5180	0.9992	90.50
30	2650.00	15.84	165.96	2581.70	-504.29	140.41	177.23	523.47	164.44	0.63	92.00	66.71	0.5180	0.9992	92.90
31	2742.00	14.48	165.27	2670.49	-527.60	146.38	184.90	547.53	164.49	1.49	92.00	66.71	0.5180	0.9992	92.90
32	2834.00	15.84	160.84	2759.29	-550.58	153.43	193.62	571.56	164.43	1.94	92.00	66.71	0.5180	0.9992	97.70
33	2928.00	16.38	162.04	2849.60	-575.31	161.73	203.72	597.61	164.30	0.67	94.00	66.71	0.5180	0.9992	97.70
34	3022.00	14.55	161.71	2940.19	-599.13	169.52	213.25	622.65	164.20	1.95	94.00	66.80	0.5180	0.9992	100.10
35	3115.00	15.29	161.52	3030.06	-621.85	177.07	222.46	646.57	164.11	0.80	93.00	66.71	0.5180	0.9994	102.50
36	3207.00	16.11	162.73	3118.63	-645.55	184.71	231.82	671.45	164.03	0.96	92.00	66.71	0.5180	0.9994	102.50
37	3300.00	16.26	163.78	3207.94	-670.37	192.18	241.10	697.37	164.00	0.35	93.00	66.71	0.5187	0.9992	104.80
38	3392.00	16.63	161.09	3296.18	-695.19	200.04	250.77	723.40	163.95	0.92	92.00	66.71	0.5180	0.9992	104.80
39	3485.00	14.35	159.06	3385.79	-718.55	208.47	260.91	748.18	163.82	2.52	93.00	66.71	0.5180	0.9994	104.80
40	3578.00	15.29	162.76	3475.70	-741.02	216.23	270.30	771.93	163.73	1.43	93.00	66.71	0.5187	0.9992	107.20
41	3671.00	15.64	162.37	3565.33	-764.68	223.66	279.45	796.72	163.70	0.39	93.00	66.71	0.5187	0.9992	109.60
42	3763.00	17.09	165.93	3653.61	-789.62	230.70	288.31	822.63	163.71	1.92	92.00	66.71	0.5187	0.9992	109.60
43	3856.00	16.36	166.29	3742.67	-815.60	237.13	296.64	849.37	163.79	0.79	93.00	66.71	0.5180	0.9994	112.00
44	3948.00	15.49	166.82	3831.14	-840.15	243.00	304.31	874.58	163.87	0.96	92.00	66.71	0.5187	0.9994	114.40
45	4042.00	15.20	162.73	3921.79	-864.14	249.52	312.58	899.44	163.89	1.19	94.00	66.71	0.5187	0.9992	114.40
46	4134.00	15.67	160.19	4010.47	-887.34	257.31	322.06	923.90	163.83	0.89	92.00	66.71	0.5180	0.9994	116.80
47	4226.00	15.78	158.03	4099.03	-910.63	266.20	332.64	948.74	163.71	0.65	92.00	66.71	0.5180	0.9994	119.20
48	4319.00	16.33	162.85	4188.41	-934.85	274.79	342.99	974.40	163.62	1.55	93.00	66.71	0.5180	0.9994	119.20
49	4413.00	17.40	163.49	4278.36	-960.96	282.68	352.79	1001.67	163.61	1.16	94.00	66.71	0.5187	0.9994	95.30

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL	MagDip	MTotal	GTotal	Bottom Hole Temp
50	4505.00	15.99	162.84	4366.48	-986.26	290.33	362.28	1028.10	163.60	1.55	92.00	66.71	0.5180	0.9994	121.60
51	4597.00	14.67	160.15	4455.21	-1009.32	298.02	371.66	1052.40	163.55	1.63	92.00	66.71	0.5180	0.9994	124.00
52	4691.00	15.86	163.72	4545.89	-1032.85	305.66	381.02	1077.13	163.51	1.61	94.00	66.71	0.5180	0.9994	126.40
53	4783.00	16.88	165.37	4634.16	-1057.84	312.56	389.74	1103.05	163.54	1.22	92.00	66.80	0.5187	0.9992	126.40
54	4876.00	15.57	163.92	4723.46	-1082.90	319.43	398.44	1129.03	163.57	1.47	93.00	66.71	0.5180	0.9994	128.80
55	5000.00	16.25	162.96	4842.71	-1115.48	329.12	410.51	1163.02	163.56	0.59	124.00	66.71	0.5187	0.9992	126.40
56	5093.00	16.34	161.19	4931.97	-1140.30	337.16	420.35	1189.10	163.53	0.54	93.00	66.71	0.5187	0.9992	126.40
57	5185.00	16.20	159.26	5020.29	-1164.55	345.87	430.83	1214.83	163.46	0.61	92.00	66.71	0.5180	0.9994	128.80
58	5277.00	14.53	158.32	5109.00	-1187.28	354.68	441.29	1239.13	163.37	1.84	92.00	66.71	0.5180	0.9994	131.10
59	5369.00	15.88	162.91	5197.78	-1210.04	362.64	450.91	1263.21	163.32	1.97	92.00	66.71	0.5180	0.9994	133.50
60	5462.00	15.79	167.31	5287.25	-1234.55	369.16	459.22	1288.56	163.35	1.29	93.00	66.71	0.5180	0.9994	135.90
61	5554.00	16.05	169.62	5375.72	-1259.27	374.20	466.07	1313.69	163.45	0.74	92.00	66.71	0.5180	0.9994	138.30
62	5647.00	15.63	166.32	5465.19	-1284.09	379.48	473.17	1338.99	163.54	1.07	93.00	66.71	0.5180	0.9994	140.70
63	5739.00	15.96	165.82	5553.72	-1308.39	385.51	480.97	1364.01	163.58	0.39	92.00	66.71	0.5180	0.9994	143.10
64	5831.00	14.81	167.47	5642.42	-1332.13	391.16	488.36	1388.38	163.64	1.34	92.00	66.71	0.5187	0.9994	143.10
65	5924.00	16.35	166.95	5732.00	-1356.49	396.70	495.67	1413.31	163.70	1.66	93.00	66.80	0.5187	0.9992	147.90
66	6017.00	15.42	165.56	5821.45	-1381.22	402.74	503.52	1438.73	163.74	1.08	93.00	66.71	0.5180	0.9994	147.90
67	6110.00	16.46	169.33	5910.88	-1406.14	408.26	510.87	1464.21	163.81	1.58	93.00	66.80	0.5180	0.9992	152.70
68	6202.00	15.34	168.46	5999.35	-1430.87	413.11	517.52	1489.31	163.90	1.24	92.00	66.80	0.5180	0.9992	155.00
69	6294.00	16.49	166.82	6087.83	-1455.51	418.52	524.74	1514.48	163.96	1.34	92.00	66.80	0.5187	0.9992	155.00
70	6386.00	15.71	163.35	6176.22	-1480.16	425.07	533.09	1539.98	163.98	1.35	92.00	66.80	0.5180	0.9992	157.40
71	6479.00	16.03	167.86	6265.68	-1504.77	431.37	541.19	1565.38	164.00	1.37	93.00	66.80	0.5180	0.9992	159.80
72	6571.00	17.23	158.39	6353.85	-1529.87	439.07	550.71	1591.62	163.99	3.22	92.00	66.80	0.5180	0.9992	159.80
73	6664.00	23.65	129.92	6441.15	-1554.73	458.51	571.94	1620.93	163.57	12.54	93.00	66.80	0.5180	0.9992	159.80
74	6756.00	27.11	116.16	6524.34	-1575.83	491.52	606.41	1650.71	162.68	7.41	92.00	66.80	0.5180	0.9990	162.20
75	6848.00	32.32	112.51	6604.22	-1594.51	533.08	649.24	1681.26	161.51	5.99	92.00	66.71	0.5180	0.9990	164.60
76	6940.00	36.67	109.04	6680.03	-1612.89	581.80	699.18	1714.62	160.16	5.19	92.00	66.71	0.5180	0.9992	169.40
77	7033.00	46.92	104.76	6749.29	-1630.66	641.07	759.60	1752.14	158.54	11.44	93.00	66.71	0.5172	0.9990	169.40
78	7124.00	51.53	102.12	6808.71	-1646.61	708.07	827.60	1792.40	156.73	5.52	91.00	66.62	0.5172	0.9994	171.80
79	7217.00	56.78	98.38	6863.16	-1659.94	782.22	902.53	1835.01	154.77	6.52	93.00	66.62	0.5172	0.9990	171.80
80	7309.00	63.03	96.70	6909.27	-1670.34	861.09	981.95	1879.24	152.73	6.97	92.00	66.62	0.5164	0.9994	171.80
81	7401.00	66.80	95.72	6948.27	-1679.34	943.91	1065.21	1926.44	150.66	4.21	92.00	66.62	0.5164	0.9992	171.80
82	7493.00	75.34	95.93	6978.09	-1688.17	1030.41	1152.12	1977.79	148.60	9.29	92.00	66.62	0.5164	0.9992	174.20
83	7586.00	82.93	94.61	6995.61	-1696.54	1121.29	1243.37	2033.60	146.54	8.28	93.00	66.62	0.5156	0.9990	174.20
84	7678.00	86.33	92.07	7004.22	-1701.87	1212.71	1334.93	2089.74	144.53	4.61	92.00	66.45	0.5156	0.9996	179.00
85	7770.00	90.18	91.66	7007.02	-1704.86	1304.60	1426.80	2146.75	142.58	4.21	92.00	66.53	0.5156	0.9994	181.30
86	7864.00	91.19	91.22	7005.90	-1707.22	1398.56	1520.68	2206.94	140.68	1.17	94.00	66.45	0.5164	0.9994	183.70
87	7956.00	90.62	90.04	7004.44	-1708.24	1490.54	1612.48	2267.11	138.89	1.42	92.00	66.45	0.5164	0.9994	183.70
88	8049.00	89.17	89.19	7004.61	-1707.61	1583.54	1705.18	2328.84	137.16	1.81	93.00	66.53	0.5156	0.9990	186.10
89	8141.00	88.96	88.76	7006.11	-1705.96	1675.51	1796.78	2391.16	135.52	0.52	92.00	66.53	0.5156	0.9990	188.50
90	8233.00	88.55	88.87	7008.11	-1704.06	1767.47	1888.34	2455.15	133.95	0.46	92.00	66.53	0.5156	0.9988	193.30
91	8325.00	88.05	88.34	7010.84	-1701.82	1859.40	1979.86	2520.63	132.47	0.79	92.00	66.45	0.5156	0.9992	193.30
92	8419.00	89.77	89.43	7012.63	-1700.00	1953.36	2073.43	2589.52	131.03	2.17	94.00	66.53	0.5156	0.9990	193.30
93	8513.00	90.24	88.84	7012.62	-1698.58	2047.35	2167.06	2660.22	129.68	0.80	94.00	66.53	0.5164	0.9994	195.70
94	8605.00	90.69	88.10	7011.88	-1696.12	2139.31	2258.59	2730.11	128.41	0.94	92.00	66.53	0.5156	0.9996	198.10
95	8698.00	90.66	87.63	7010.78	-1692.66	2232.24	2351.01	2801.42	127.17	0.51	93.00	66.45	0.5156	0.9992	200.50
96	8790.00	91.09	87.00	7009.38	-1688.35	2324.13	2442.33	2872.64	126.00	0.83	92.00	66.45	0.5156	0.9990	200.50
97	8883.00	90.67	89.70	7007.95	-1685.67	2417.07	2534.82	2946.81	124.89	2.94	93.00	66.45	0.5156	0.9992	200.50
98	8975.00	90.93	91.80	7006.66	-1686.87	2509.05	2626.64	3023.38	123.91	2.30	92.00	66.45	0.5156	0.9992	200.50
99	9067.00	89.31	92.44	7006.47	-1690.28	2600.98	2718.57	3101.96	123.02	1.89	92.00	66.53	0.5148	0.9988	200.50
100	9161.00	89.56	92.47	7007.40	-1694.30	2694.89	2812.52	3183.25	122.16	0.27	94.00	66.62	0.5156	0.9992	202.90
101	9254.00	90.28	92.32	7007.53	-1698.19	2787.81	2905.47	3264.31	121.35	0.79	93.00	66.53	0.5148	0.9988	205.30
102	9347.00	90.45	91.48	7006.93	-1701.27	2880.75	2998.39	3345.60	120.56	0.92	93.00	66.53	0.5148	0.9988	207.60
103	9439.00	89.25	90.17	7007.17	-1702.60	2972.74	3090.23	3425.79	119.80	1.93	92.00	66.53	0.5156	0.9990	210.00
104	9532.00	89.63	89.40	7008.08	-1702.25	3065.73	3182.94	3506.62	119.04	0.92	93.00	66.53	0.5156	0.9996	210.00
105	9624.00	88.87	88.56	7009.29	-1700.61	3157.71	3274.55	3586.53	118.31	1.23	92.00	66.53	0.5156	0.9988	212.40
106	9718.00	88.98	88.48	7011.05	-1698.18	3251.66	3368.06	3668.40	117.58	0.14	94.00	66.53	0.5156	0.9990	214.80
107	9810.00	89.80	91.67	7012.03	-1698.30	3343.64	3459.80	3750.23	116.93	3.58	92.00	66.53	0.5156	0.9990	212.40
108	9903.00	89.67	91.94	7012.46	-1701.23	3436.60	3552.72	3834.63	116.34	0.32	93.00	66.53	0.5164	0.9992	214.80
109	9997.00	89.44	91.88	7013.19	-1704.37	3530.54	3646.64	3920.41	115.77	0.25	94.00	66.53	0.5148	0.9988	214.80
110	10091.00	89.11	91.66	7014.38	-1707.27	3624.49	3740.54	4006.46	115.22	0.42	94.00	66.62	0.5164	0.9998	214.80
111	10184.00	90.61	91.81	7014.61	-1710.09	3717.44	3833.45	4091.92	114.70	1.62	93.00	66.62	0.5164	0.9996	214.80
112	10276.00	90.43	91.40	7013.77	-1712.66	3809.40	3925.35	4176.69	114.21	0.49	92.00	66.53	0.5156	0.9994	217.20
113	10368.00	90.82	91.43	7012.77	-1714.93	3901.37	4017.24	4261.65	113.73	0.43	92.00	66.62	0.5164	0.9996	219.60
114	10462.00	91.25	91.78	7011.07	-1717.57	3995.32	4111.12	4348.86	113.26	0.59	94.00	66.53	0.5164	0.9998	219.60

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL	MagDip	MTotal	GTotal	Bottom Hole Temp
115	10553.00	92.10	91.81	7008.41	-1720.41	4086.23	4202.00	4433.64	112.83	0.93	91.00	66.53	0.5156	0.9994	222.00
116	10646.00	91.01	93.83	7005.89	-1724.99	4179.08	4294.93	4521.09	112.43	2.47	93.00	66.53	0.5148	0.9988	219.60
117	10738.00	89.99	92.39	7005.08	-1729.98	4270.94	4386.91	4608.01	112.05	1.92	92.00	66.53	0.5156	0.9988	219.60
118	10832.00	90.51	93.24	7004.67	-1734.60	4364.82	4480.88	4696.86	111.67	1.06	94.00	66.53	0.5148	0.9986	222.00
119	10926.00	91.49	92.63	7003.03	-1739.41	4458.68	4574.84	4785.96	111.31	1.23	94.00	66.53	0.5156	0.9994	222.00
120	11019.00	90.14	91.56	7001.71	-1742.81	4551.61	4667.76	4873.86	110.95	1.85	93.00	66.53	0.5156	0.9994	222.00
121	11113.00	90.14	91.09	7001.48	-1744.98	4645.58	4761.64	4962.50	110.59	0.50	94.00	66.53	0.5156	0.9994	222.00
122	11206.00	89.50	90.82	7001.77	-1746.53	4738.57	4854.48	5050.19	110.23	0.75	93.00	66.53	0.5156	0.9992	224.40
123	11299.00	89.95	90.42	7002.22	-1747.54	4831.56	4947.30	5137.89	109.88	0.65	93.00	66.53	0.5164	0.9994	226.80
124	11392.00	90.45	90.99	7001.90	-1748.68	4924.55	5040.12	5225.81	109.55	0.82	93.00	66.53	0.5148	0.9986	226.80
125	11485.00	89.11	90.96	7002.25	-1750.26	5017.54	5132.97	5314.05	109.23	1.44	93.00	66.53	0.5164	0.9994	226.80
126	11577.00	90.05	91.10	7002.93	-1751.92	5109.52	5224.82	5401.52	108.93	1.03	92.00	66.53	0.5148	0.9986	226.80
127	11670.00	90.54	91.24	7002.45	-1753.82	5202.50	5317.69	5490.16	108.63	0.55	93.00	66.53	0.5148	0.9986	229.20
128	11763.00	88.67	90.96	7003.09	-1755.60	5295.47	5410.54	5578.90	108.34	2.03	93.00	66.53	0.5156	0.9988	229.20
129	11855.00	88.48	90.67	7005.38	-1756.91	5387.44	5502.35	5666.67	108.06	0.38	92.00	66.53	0.5156	0.9992	229.20
130	11949.00	88.18	90.13	7008.12	-1757.57	5481.39	5596.10	5756.27	107.78	0.66	94.00	66.53	0.5164	0.9994	229.20
131	12042.00	89.87	89.29	7009.70	-1757.10	5574.37	5688.79	5844.74	107.50	2.03	93.00	66.53	0.5156	0.9986	229.20
132	12134.00	89.87	88.72	7009.91	-1755.50	5666.36	5780.41	5932.07	107.21	0.62	92.00	66.53	0.5164	0.9994	231.50
133	12227.00	89.95	88.10	7010.05	-1752.92	5759.32	5872.93	6020.18	106.93	0.67	93.00	66.45	0.5156	0.9986	233.90
134	12319.00	90.62	90.59	7009.60	-1751.87	5851.31	5964.59	6107.93	106.67	2.80	92.00	66.53	0.5156	0.9986	233.90
135	12412.00	91.36	90.29	7007.99	-1752.58	5944.29	6057.37	6197.27	106.43	0.86	93.00	66.45	0.5148	0.9986	236.30
136	12505.00	90.34	91.37	7006.61	-1753.93	6037.27	6150.19	6286.88	106.20	1.60	93.00	66.53	0.5164	0.9992	236.30
137	12597.00	91.15	91.61	7005.41	-1756.32	6129.23	6242.08	6375.90	105.99	0.92	92.00	66.45	0.5156	0.9988	236.30
138	12689.00	89.89	90.23	7004.58	-1757.80	6221.21	6333.92	6464.77	105.78	2.03	92.00	66.53	0.5148	0.9984	238.70
139	12781.00	89.98	90.55	7004.68	-1758.42	6313.21	6425.71	6553.52	105.56	0.36	92.00	66.53	0.5148	0.9986	238.70
140	12875.00	90.49	90.25	7004.30	-1759.08	6407.20	6519.50	6644.29	105.35	0.63	94.00	66.53	0.5156	0.9998	241.10
141	12968.00	91.19	89.95	7002.93	-1759.24	6500.19	6612.25	6734.05	105.14	0.82	93.00	66.53	0.5148	0.9986	236.30
142	13060.00	90.02	89.74	7001.96	-1758.99	6592.18	6703.97	6822.83	104.94	1.29	92.00	66.53	0.5148	0.9986	236.30
143	13153.00	89.88	88.49	7002.04	-1757.56	6685.17	6796.60	6912.35	104.73	1.35	93.00	66.53	0.5156	0.9998	238.70
144	13246.00	89.56	87.37	7002.50	-1754.20	6778.11	6889.03	7001.43	104.51	1.25	93.00	66.53	0.5148	0.9986	241.10
145	13339.00	89.78	88.88	7003.03	-1751.15	6871.05	6981.50	7090.69	104.30	1.64	93.00	66.53	0.5164	0.9998	238.70
146	13431.00	90.10	89.89	7003.13	-1750.17	6963.05	7073.17	7179.63	104.11	1.15	92.00	66.53	0.5164	0.9994	238.70
147	13523.00	90.88	89.54	7002.34	-1749.71	7055.04	7164.88	7268.78	103.93	0.93	92.00	66.53	0.5148	0.9986	241.10
148	13615.00	89.72	88.11	7001.86	-1747.82	7147.02	7256.47	7357.63	103.74	2.00	92.00	66.53	0.5156	0.9990	243.50
149	13707.00	89.72	90.45	7002.31	-1746.67	7239.00	7348.12	7446.74	103.57	2.54	92.00	66.53	0.5156	0.9988	241.10
150	13800.00	89.82	90.95	7002.68	-1747.80	7331.99	7440.94	7537.44	103.41	0.55	93.00	66.53	0.5148	0.9986	243.50
151	13892.00	89.64	90.78	7003.12	-1749.19	7423.98	7532.78	7627.27	103.26	0.27	92.00	66.62	0.5164	1.0000	243.50
152	13984.00	88.24	91.25	7004.82	-1750.82	7515.95	7624.62	7717.18	103.11	1.61	92.00	66.53	0.5156	0.9986	243.50
153	14076.00	87.38	90.29	7008.34	-1752.06	7607.87	7716.38	7807.01	102.97	1.40	92.00	66.53	0.5164	0.9996	243.50
154	14168.00	89.00	91.37	7011.24	-1753.39	7699.81	7808.17	7896.93	102.83	2.12	92.00	66.53	0.5156	0.9986	243.50
155	14262.00	88.65	90.61	7013.17	-1755.01	7793.78	7902.00	7988.93	102.69	0.89	94.00	66.53	0.5156	0.9992	245.90
156	14354.00	88.75	89.67	7015.26	-1755.24	7885.75	7993.74	8078.74	102.55	1.03	92.00	66.53	0.5156	0.9986	245.90
157	14446.00	89.13	91.18	7016.96	-1755.92	7977.73	8085.52	8168.69	102.41	1.69	92.00	66.53	0.5156	0.9994	245.90
158	14538.00	90.82	91.79	7017.00	-1758.30	8069.70	8177.41	8259.03	102.29	1.95	92.00	66.53	0.5164	0.9994	243.50
159	14630.00	90.75	90.97	7015.74	-1760.52	8161.66	8269.29	8349.38	102.17	0.89	92.00	66.53	0.5164	0.9998	243.50
160	14722.00	90.53	90.36	7014.71	-1761.59	8253.65	8361.10	8439.54	102.05	0.70	92.00	66.53	0.5164	0.9998	245.90
161	14814.00	89.21	90.24	7014.92	-1762.07	8345.65	8452.88	8529.64	101.92	1.44	92.00	66.53	0.5164	0.9994	248.30
162	14908.00	91.90	90.60	7014.01	-1762.76	8439.63	8546.66	8621.76	101.80	2.89	94.00	66.53	0.5164	0.9996	245.90
163	15001.00	93.46	93.66	7009.66	-1766.21	8532.45	8639.48	8713.33	101.69	3.69	93.00	66.53	0.5156	0.9986	245.90
164	15094.00	90.32	93.79	7006.59	-1772.25	8625.19	8732.42	8805.38	101.61	3.38	93.00	66.53	0.5164	1.0000	245.90
165	15187.00	90.92	97.11	7005.59	-1781.08	8717.75	8825.38	8897.83	101.55	3.63	93.00	66.53	0.5148	0.9986	245.90
166	15279.00	89.21	96.62	7005.48	-1792.07	8809.09	8917.28	8989.53	101.50	1.93	92.00	66.53	0.5156	0.9994	245.90
167	15372.00	89.49	92.69	7006.54	-1799.62	8901.76	9010.25	9081.85	101.43	4.24	93.00	66.62	0.5164	1.0000	245.90
168	15465.00	89.62	92.25	7007.26	-1803.63	8994.67	9103.20	9173.72	101.34	0.49	93.00	66.53	0.5156	0.9986	248.30
169	15557.00	89.61	92.15	7007.88	-1807.16	9086.60	9195.14	9264.56	101.25	0.11	92.00	66.53	0.5156	0.9996	250.70
170	15651.00	89.17	91.60	7008.88	-1810.23	9180.54	9289.06	9357.31	101.15	0.75	94.00	66.53	0.5156	0.9990	250.70
171	15743.00	89.52	91.81	7009.93	-1812.97	9272.50	9380.96	9448.07	101.06	0.44	92.00	66.53	0.5156	0.9986	250.70
172	15835.00	89.90	91.64	7010.40	-1815.74	9364.45	9472.87	9538.86	100.97	0.45	92.00	66.53	0.5156	1.0000	253.10
173	15929.00	89.51	92.04	7010.88	-1818.76	9458.40	9566.79	9631.68	100.88	0.59	94.00	66.53	0.5156	1.0000	253.10
174	16021.00	89.72	92.12	7011.50	-1822.10	9550.34	9658.72	9722.60	100.80	0.24	92.00	66.53	0.5156	0.9994	255.50
175	16113.00	89.42	89.75	7012.19	-1823.60	9642.32	9750.56	9813.25	100.71	2.60	92.00	66.53	0.5156	0.9998	250.70
176	16205.00	89.95	90.06	7012.69	-1823.45	9734.32	9842.30	9903.63	100.61	0.67	92.00	66.53	0.5156	0.9986	253.10
177	16298.00	90.02	89.55	7012.72	-1823.13	9827.32	9935.02	9994.99	100.51	0.55	93.00	66.53	0.5156	0.9986	253.10
178	16390.00	90.23	88.75	7012.52	-1821.76	9919.30	10026.66	10085.21	100.41	0.90	92.00	66.45	0.5156	0.9986	255.50
179	16482.00	90.33	88.72	7012.07	-1819.73	10011.28	10118.23	10175.32	100.30	0.11	92.00	66.53	0.5156	0.9992	255.50

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL	MagDip	MTotal	GTotal	Bottom Hole Temp
180	16575.00	90.68	87.95	7011.25	-1817.03	10104.24	10210.74	10266.31	100.19	0.91	93.00	66.45	0.5164	0.9992	255.50
181	16667.00	91.09	90.09	7009.83	-1815.46	10196.21	10302.34	10356.57	100.10	2.37	92.00	66.45	0.5156	0.9986	253.10
182	16759.00	90.27	90.58	7008.74	-1816.00	10288.20	10394.12	10447.24	100.01	1.04	92.00	66.53	0.5164	0.9998	253.10
183	16851.00	90.89	90.33	7007.80	-1816.73	10380.19	10485.92	10537.97	99.93	0.73	92.00	66.53	0.5156	0.9986	253.10
184	16943.00	89.21	90.89	7007.72	-1817.71	10472.18	10577.73	10628.76	99.85	1.92	92.00	66.53	0.5164	0.9996	253.10
185	17036.00	89.73	90.94	7008.58	-1819.19	10565.16	10670.57	10720.64	99.77	0.56	93.00	66.53	0.5164	0.9996	255.50
186	17128.00	90.57	90.95	7008.34	-1820.71	10657.15	10762.42	10811.56	99.70	0.91	92.00	66.53	0.5164	0.9996	255.50
187	17221.00	90.29	92.35	7007.65	-1823.39	10750.11	10855.32	10903.65	99.63	1.54	93.00	66.53	0.5156	0.9996	255.50
188	17313.00	90.21	91.82	7007.24	-1826.73	10842.05	10947.25	10994.86	99.56	0.58	92.00	66.53	0.5156	0.9988	255.50
189	17407.00	90.94	91.74	7006.30	-1829.65	10935.99	11041.16	11087.99	99.50	0.78	94.00	66.53	0.5156	0.9992	257.80
190	17499.00	89.05	91.86	7006.31	-1832.54	11027.94	11133.07	11179.17	99.43	2.06	92.00	66.53	0.5156	0.9994	255.50
191	17591.00	89.28	91.35	7007.65	-1835.12	11119.90	11224.97	11270.31	99.37	0.61	92.00	66.45	0.5156	0.9990	257.80
192	17683.00	88.90	93.28	7009.11	-1838.83	11211.81	11316.90	11361.60	99.31	2.14	92.00	66.53	0.5156	0.9986	257.80
193	17775.00	89.38	93.15	7010.49	-1843.99	11303.65	11408.87	11453.07	99.27	0.54	92.00	66.53	0.5156	0.9988	257.80
194	17869.00	87.93	92.71	7012.70	-1848.80	11397.50	11502.82	11546.47	99.21	1.61	94.00	66.53	0.5164	0.9996	257.80
195	17962.00	88.09	93.57	7015.93	-1853.89	11490.30	11595.75	11638.90	99.17	0.94	93.00	66.53	0.5156	0.9986	257.80
196	18054.00	88.74	94.49	7018.47	-1860.35	11582.04	11687.71	11730.50	99.13	1.22	92.00	66.53	0.5156	0.9996	257.80
197	18146.00	89.86	95.89	7019.60	-1868.67	11673.65	11779.69	11822.27	99.09	1.95	92.00	66.53	0.5156	0.9996	257.80
198	18240.00	88.79	96.07	7020.70	-1878.46	11767.13	11873.64	11916.13	99.07	1.15	94.00	66.53	0.5156	0.9996	257.80
199	18331.00	87.51	96.90	7023.64	-1888.74	11857.50	11964.51	12006.98	99.05	1.68	91.00	66.53	0.5156	0.9996	257.80
200	18424.00	87.88	98.98	7027.38	-1901.57	11949.53	12057.24	12099.89	99.04	2.27	93.00	66.53	0.5164	0.9998	257.80
201	18517.00	88.86	99.65	7030.03	-1916.62	12041.26	12149.83	12192.85	99.04	1.28	93.00	66.53	0.5156	0.9996	257.80
202	18626.00	87.81	100.83	7033.19	-1935.99	12148.48	12258.19	12301.77	99.05	1.45	109.00	66.53	0.5172	0.9996	238.70
203	18721.00	87.98	102.79	7036.68	-1955.42	12241.40	12352.29	12396.59	99.08	2.07	95.00	66.53	0.5156	0.9988	243.50
204	18813.00	88.25	105.00	7039.71	-1977.50	12330.65	12442.93	12488.22	99.11	2.42	92.00	66.53	0.5172	0.9992	245.90
205	18906.00	88.27	106.56	7042.53	-2002.78	12420.11	12534.00	12580.55	99.16	1.68	93.00	66.53	0.5172	0.9996	248.30
206	18998.00	88.29	106.53	7045.30	-2028.96	12508.26	12623.84	12671.75	99.21	0.04	92.00	66.62	0.5156	0.9986	248.30
207	19091.00	88.44	103.03	7047.95	-2052.67	12598.13	12715.22	12764.26	99.25	3.77	93.00	66.45	0.5164	0.9990	250.70
208	19184.00	88.38	99.58	7050.53	-2070.89	12689.28	12807.46	12857.15	99.27	3.71	93.00	66.62	0.5156	0.9986	250.70
209	19276.00	88.44	99.59	7053.08	-2086.21	12779.96	12899.02	12949.11	99.27	0.07	92.00	66.45	0.5164	0.9996	250.70
210	19369.00	88.65	99.76	7055.45	-2101.83	12871.60	12991.57	13042.08	99.27	0.29	93.00	66.45	0.5164	0.9990	253.10
211	19462.00	87.95	100.43	7058.21	-2118.13	12963.12	13084.05	13135.03	99.28	1.04	93.00	66.53	0.5172	0.9996	253.10
212	19554.00	88.61	100.74	7060.97	-2135.02	13053.52	13175.44	13226.96	99.29	0.79	92.00	66.53	0.5172	0.9994	255.50
213	19646.00	89.19	101.93	7062.73	-2153.10	13143.70	13266.71	13318.89	99.30	1.44	92.00	66.45	0.5156	0.9992	257.80
214	19740.00	88.52	101.87	7064.61	-2172.48	13235.66	13359.85	13412.77	99.32	0.72	94.00	66.53	0.5164	0.9988	257.80
215	19832.00	88.28	101.93	7067.18	-2191.44	13325.65	13450.99	13504.64	99.34	0.27	92.00	66.53	0.5172	0.9992	255.50
216	19924.00	87.80	102.31	7070.33	-2210.74	13415.55	13542.07	13596.48	99.36	0.67	92.00	66.62	0.5156	0.9984	257.80
217	20017.00	87.89	102.72	7073.82	-2230.88	13506.27	13634.03	13689.28	99.38	0.45	93.00	66.62	0.5156	0.9986	257.80
218	20111.00	88.18	102.52	7077.05	-2251.41	13597.95	13726.97	13783.07	99.40	0.37	94.00	66.45	0.5164	0.9990	257.80
219	20203.00	87.98	102.51	7080.13	-2271.33	13687.71	13817.96	13874.88	99.42	0.22	92.00	66.53	0.5172	0.9998	257.80
220	20296.00	88.55	102.09	7082.94	-2291.14	13778.54	13910.00	13967.72	99.44	0.76	93.00	66.45	0.5164	0.9990	257.80
221	20389.00	89.02	102.13	7084.92	-2310.64	13869.45	14002.10	14060.60	99.46	0.51	93.00	66.53	0.5148	0.9988	257.80
222	20481.00	89.22	102.04	7086.33	-2329.90	13959.40	14093.22	14152.50	99.48	0.24	92.00	66.62	0.5156	0.9988	257.80
223	20573.00	89.35	102.20	7087.48	-2349.21	14049.34	14184.35	14244.39	99.49	0.22	92.00	66.45	0.5164	0.9996	260.20
224	20666.00	89.26	102.34	7088.61	-2368.98	14140.21	14276.43	14337.28	99.51	0.18	93.00	66.53	0.5156	0.9986	260.20
225	20759.00	89.19	102.44	7089.86	-2388.93	14231.03	14368.48	14430.15	99.53	0.13	93.00	66.53	0.5164	0.9996	260.20
226	20851.00	89.38	102.52	7091.01	-2408.81	14320.85	14459.52	14522.02	99.55	0.22	92.00	66.53	0.5148	0.9988	260.20
227	20944.00	89.33	102.26	7092.06	-2428.76	14411.68	14551.57	14614.90	99.57	0.28	93.00	66.62	0.5156	0.9986	260.20
228	21036.00	89.41	102.62	7093.07	-2448.58	14501.51	14642.62	14706.78	99.58	0.40	92.00	66.53	0.5164	0.9996	262.60
229	21129.00	89.30	102.76	7094.12	-2469.01	14592.24	14734.60	14799.64	99.60	0.19	93.00	66.53	0.5164	0.9992	262.60
230	21221.00	89.28	102.83	7095.26	-2489.38	14681.95	14825.57	14891.49	99.62	0.08	92.00	66.45	0.5164	0.9998	262.60
231	21312.00	89.29	102.98	7096.39	-2509.70	14770.64	14915.52	14982.34	99.64	0.17	91.00	66.53	0.5164	0.9994	262.60
232	21404.00	88.72	102.76	7097.99	-2530.19	14860.31	15006.46	15074.18	99.66	0.66	92.00	66.62	0.5156	0.9986	262.60
233	21498.00	88.49	100.84	7100.28	-2549.41	14952.30	15099.61	15168.08	99.68	2.06	94.00	66.45	0.5164	0.9998	265.00
234	21590.00	88.37	98.64	7102.80	-2564.97	15042.93	15191.15	15260.04	99.68	2.39	92.00	66.62	0.5148	0.9988	265.00
235	21682.00	88.55	98.55	7105.27	-2578.71	15133.86	15282.85	15351.99	99.67	0.22	92.00	66.45	0.5164	0.9994	265.00
236	21774.00	88.28	98.96	7107.82	-2592.71	15224.76	15374.52	15443.94	99.66	0.53	92.00	66.53	0.5164	0.9988	265.00
237	21866.00	88.25	101.35	7110.60	-2608.92	15315.27	15465.98	15535.89	99.67	2.60	92.00	66.53	0.5164	0.9994	265.00
238	21959.00	88.25	101.73	7113.44	-2627.52	15406.35	15558.19	15628.80	99.68	0.41	93.00	66.53	0.5164	0.9996	265.00
239	22051.00	88.34	102.45	7116.18	-2646.78	15496.26	15649.28	15720.68	99.69	0.79	92.00	66.53	0.5164	0.9996	265.00
240	22145.00	88.31	103.04	7118.93	-2667.51	15587.91	15742.20	15814.50	99.71	0.63	94.00	66.53	0.5164	0.9990	267.40
241	22237.00	88.44	102.46	7121.54	-2687.80	15677.60	15833.15	15906.34	99.73	0.65	92.00	66.62	0.5156	0.9986	267.40
242	22331.00	88.18	102.32	7124.31	-2707.96	15769.37	15926.16	16000.19	99.74	0.31	94.00	66.45	0.5156	0.9990	265.00
243	22423.00	87.71	102.53	7127.61	-2727.74	15859.16	16017.16	16092.04	99.76	0.56	92.00	66.45	0.5164	0.9998	265.00
244	22515.00	87.18	102.49	7131.71	-2747.65	15948.89	16108.11	16183.84	99.77	0.58	92.00	66.53	0.5172	0.9998	265.00

Svy	Depth	Inc	Azm	TVD	NS	EW	VS	CD	CA	DLS	CL	MagDip	MTotal	GTotal	Bottom Hole Temp
245	22608.00	87.63	102.17	7135.92	-2767.49	16039.65	16200.09	16276.65	99.79	0.59	93.00	66.53	0.5156	0.9988	267.40
246	22700.00	87.37	102.09	7139.93	-2786.80	16129.51	16291.13	16368.49	99.80	0.30	92.00	66.45	0.5164	0.9998	267.40
247	22768.00	87.48	102.09	7142.99	-2801.03	16195.93	16358.42	16436.36	99.81	0.16	68.00	66.53	0.5156	0.9988	267.40
PTB	22806.00	87.48	102.09	7144.66	-2808.98	16233.06	16396.03	16474.30	99.82	0.00	38.00				