



Great Western Operating Co, LLC  
 Directional Survey Report  
 Wellpath: Postle IC 09-179HN  
 MDs and TVDs are from Rig Floor 4997.0ft above Mean Sea Level

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
0.00	0.00	0.00	0.00	0.00	0.00		0.00
92.00	0.92	270.05	92.00	0.00	-0.74	0.00	0.74
180.00	0.62	284.36	179.99	0.12	-1.91	0.00	1.89
272.00	0.70	15.15	271.98	0.79	-2.24	0.00	2.18
364.00	1.01	23.41	363.97	2.07	-1.77	0.00	1.61
454.00	0.92	17.52	453.96	3.49	-1.24	0.00	0.97
544.00	1.23	6.98	543.95	5.14	-0.91	0.00	0.51
634.00	2.29	6.71	633.90	7.88	-0.58	0.00	-0.02
724.00	2.50	0.03	723.82	11.63	-0.37	0.00	-0.51
813.00	2.59	351.68	812.74	15.56	-0.66	0.00	-0.52
903.00	2.55	351.59	902.64	19.55	-1.24	0.00	-0.24
993.00	1.71	350.72	992.58	22.86	-1.75	0.00	0.02
1083.00	1.05	11.63	1082.56	24.99	-1.80	0.00	-0.09
1173.00	1.58	34.05	1172.53	26.83	-0.94	0.00	-1.09
1263.00	0.97	32.46	1262.51	28.50	0.16	0.00	-2.31
1353.00	0.31	12.86	1352.50	29.38	0.62	0.00	-2.84
1443.00	0.48	332.17	1442.50	29.95	0.50	0.00	-2.76
1500.00	0.57	339.29	1499.50	30.43	0.29	0.00	-2.59
1581.00	0.41	327.68	1580.50	31.05	-0.01	0.00	-2.34
1671.00	0.04	280.44	1670.50	31.33	-0.21	0.00	-2.16
1760.00	0.07	164.63	1759.50	31.28	-0.23	0.00	-2.14
1850.00	0.13	134.62	1849.50	31.15	-0.14	0.00	-2.21
1940.00	0.31	158.87	1939.49	30.86	0.02	0.00	-2.35
2029.00	0.33	156.64	2028.49	30.40	0.21	0.00	-2.51
2119.00	0.41	214.70	2118.49	29.89	0.13	0.00	-2.39
2209.00	0.66	215.30	2208.49	29.20	-0.35	0.00	-1.85
2298.00	0.15	96.61	2297.49	28.77	-0.53	0.00	-1.64
2388.00	0.03	267.87	2387.49	28.76	-0.44	0.00	-1.73
2478.00	0.19	275.67	2477.49	28.77	-0.61	0.00	-1.56
2568.00	0.28	13.05	2567.48	29.00	-0.71	0.00	-1.48
2657.00	0.25	207.68	2656.48	29.04	-0.75	0.00	-1.44
2747.00	0.10	169.68	2746.48	28.79	-0.83	0.00	-1.35
2837.00	0.10	293.20	2836.48	28.74	-0.89	0.00	-1.29
2926.00	0.09	248.69	2925.48	28.75	-1.02	0.00	-1.15
3016.00	0.21	246.74	3015.48	28.66	-1.24	0.00	-0.93
3106.00	0.16	270.24	3105.48	28.59	-1.52	0.00	-0.65
3195.00	0.44	242.26	3194.48	28.44	-1.95	0.00	-0.21
3285.00	0.19	227.86	3284.48	28.17	-2.36	0.00	0.23
3374.00	1.14	352.51	3373.48	28.95	-2.59	0.00	0.39
3464.00	2.01	30.83	3463.44	31.20	-1.89	0.00	-0.47
3553.00	1.06	34.36	3552.41	33.22	-0.63	0.00	-1.88
3643.00	0.03	240.55	3642.40	33.89	-0.18	0.00	-2.38
3732.00	0.06	309.35	3731.40	33.91	-0.24	0.00	-2.33
3822.00	0.04	179.97	3821.40	33.91	-0.27	0.00	-2.29
3912.00	0.10	330.29	3911.40	33.95	-0.31	0.00	-2.25
4001.00	0.81	162.49	4000.40	33.41	-0.16	0.00	-2.36
4091.00	0.92	202.33	4090.39	32.14	-0.24	0.00	-2.18
4181.00	0.14	45.44	4180.39	31.55	-0.44	0.00	-1.94
4271.00	0.03	37.55	4270.39	31.64	-0.35	0.00	-2.04
4360.00	0.03	74.25	4359.39	31.67	-0.31	0.00	-2.08
4450.00	0.07	36.34	4449.39	31.72	-0.26	0.00	-2.14
4540.00	0.15	69.91	4539.39	31.80	-0.11	0.00	-2.29
4629.00	0.04	102.54	4628.39	31.84	0.03	0.00	-2.43
4719.00	0.07	106.44	4718.39	31.81	0.11	0.00	-2.51
4809.00	0.07	258.90	4808.39	31.79	0.11	0.00	-2.51
4898.00	0.11	18.66	4897.39	31.86	0.08	0.00	-2.49
4988.00	0.10	0.62	4987.39	32.02	0.11	0.00	-2.53
5078.00	0.11	352.29	5077.39	32.18	0.10	0.00	-2.53
5168.00	0.57	254.87	5167.39	32.15	-0.34	0.00	-2.09
5257.00	0.03	23.49	5256.39	32.06	-0.76	0.00	-1.66
5347.00	0.07	354.88	5346.39	32.13	-0.76	0.00	-1.67
5437.00	1.72	123.87	5436.37	31.44	0.36	0.00	-2.73
5527.00	4.58	144.85	5526.23	27.74	3.55	0.00	-5.64
5616.00	5.04	137.70	5614.92	21.95	8.23	0.00	-9.86
5706.00	8.54	136.01	5704.27	14.21	15.53	0.00	-16.56

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
5796.00	11.03	142.52	5792.96	2.57	25.41	0.00	-25.54
5885.00	14.88	139.65	5879.68	-12.90	38.00	0.00	-36.92
5975.00	17.45	143.24	5966.11	-32.52	53.56	0.00	-50.95
6065.00	18.82	143.99	6051.64	-55.08	70.17	0.00	-65.81
6155.00	22.59	143.46	6135.81	-80.72	89.00	0.00	-82.65
6244.00	24.67	143.61	6217.35	-109.41	110.20	0.00	-101.63
6334.00	27.62	143.67	6298.13	-141.34	133.71	0.00	-122.65
6424.00	30.57	141.27	6376.77	-176.01	160.40	0.00	-146.64
6514.00	33.51	141.40	6453.05	-213.29	190.22	0.00	-173.57
6603.00	36.66	141.06	6525.87	-253.16	222.26	0.00	-202.50
6693.00	39.20	142.14	6596.85	-296.53	256.60	0.00	-233.48
6783.00	34.97	161.97	6668.89	-343.70	282.15	0.00	-255.38
6873.00	35.80	183.22	6742.55	-394.70	288.68	0.00	-258.04
6962.00	35.68	200.18	6814.97	-445.17	278.23	0.00	-243.82
7052.00	37.38	216.53	6887.46	-491.88	252.85	0.00	-214.98
7142.00	42.71	228.91	6956.44	-533.99	213.50	0.00	-172.56
7231.00	47.03	240.07	7019.60	-570.15	162.43	0.00	-118.90
7321.00	53.61	243.83	7077.05	-602.60	101.30	0.00	-55.50
7410.00	60.80	243.62	7125.22	-635.70	34.26	0.00	13.85
7500.00	65.42	249.17	7165.94	-667.74	-39.26	0.00	89.59
7590.00	76.51	252.54	7195.25	-695.51	-119.53	0.00	171.72
7679.00	83.52	258.87	7210.69	-717.08	-204.38	0.00	257.95
7769.00	90.00	269.32	7215.79	-726.28	-293.59	0.00	347.60
7859.00	88.86	270.08	7216.68	-726.75	-383.58	0.00	437.37
7948.00	88.55	270.44	7218.70	-726.35	-472.56	0.00	526.07
8038.00	89.94	270.35	7219.88	-725.73	-562.54	0.00	615.75
8128.00	89.85	270.22	7220.05	-725.28	-652.54	0.00	705.46
8217.00	90.71	270.77	7219.61	-724.51	-741.54	0.00	794.14
8307.00	90.68	270.78	7218.52	-723.30	-831.52	0.00	883.78
8397.00	90.62	270.66	7217.50	-722.16	-921.51	0.00	973.42
8487.00	90.00	270.11	7217.01	-721.56	-1011.50	0.00	1063.11
8576.00	90.15	269.91	7216.90	-721.54	-1100.50	0.00	1151.86
8666.00	90.18	269.67	7216.64	-721.87	-1190.50	0.00	1241.63
8756.00	90.06	268.86	7216.45	-723.03	-1280.50	0.00	1331.45
8845.00	90.58	270.81	7215.95	-723.28	-1369.49	0.00	1420.21
8935.00	90.62	270.92	7215.01	-721.93	-1459.47	0.00	1509.83
9025.00	90.71	270.80	7213.96	-720.58	-1549.46	0.00	1599.46
9115.00	90.95	270.74	7212.66	-719.37	-1639.44	0.00	1689.09
9204.00	91.02	270.86	7211.13	-718.12	-1728.42	0.00	1777.72
9294.00	90.98	269.45	7209.56	-717.88	-1818.40	0.00	1867.43
9384.00	90.12	267.46	7208.69	-720.31	-1908.36	0.00	1957.31
9474.00	90.74	269.36	7208.02	-722.80	-1998.32	0.00	2047.20
9563.00	89.88	268.83	7207.54	-724.21	-2087.30	0.00	2136.04
9653.00	89.51	268.04	7208.02	-726.67	-2177.27	0.00	2225.93
9742.00	90.06	267.31	7208.35	-730.28	-2266.19	0.00	2314.88
9832.00	89.82	267.45	7208.45	-734.39	-2356.10	0.00	2404.84
9922.00	91.23	270.83	7207.62	-735.74	-2446.07	0.00	2494.65
10011.00	90.83	270.85	7206.02	-734.44	-2535.05	0.00	2583.28
10101.00	90.58	270.19	7204.91	-733.62	-2625.03	0.00	2672.95
10191.00	90.28	269.69	7204.24	-733.72	-2715.03	0.00	2762.69
10281.00	90.15	269.68	7203.90	-734.21	-2805.03	0.00	2852.47
10370.00	90.68	269.55	7203.26	-734.81	-2894.03	0.00	2941.26
10460.00	90.25	269.26	7202.52	-735.74	-2984.02	0.00	3031.06
10550.00	89.97	271.09	7202.35	-735.47	-3074.01	0.00	3120.78
10639.00	90.46	270.97	7202.02	-733.87	-3163.00	0.00	3209.39
10729.00	89.94	269.81	7201.70	-733.26	-3252.99	0.00	3299.08
10818.00	91.05	271.42	7200.93	-732.30	-3341.98	0.00	3387.74
10908.00	90.46	269.84	7199.75	-731.31	-3431.96	0.00	3477.40
10998.00	90.46	269.17	7199.03	-732.09	-3521.96	0.00	3567.19
11088.00	90.40	269.45	7198.35	-733.17	-3611.95	0.00	3657.01
11177.00	90.68	271.22	7197.51	-732.65	-3700.94	0.00	3745.70
11267.00	90.80	268.14	7196.35	-733.16	-3790.92	0.00	3835.46
11356.00	90.40	267.53	7195.42	-736.52	-3879.85	0.00	3924.40
11446.00	90.40	266.76	7194.79	-741.00	-3969.74	0.00	4014.36
11536.00	90.34	265.60	7194.21	-747.00	-4059.53	0.00	4104.36
11625.00	90.09	266.41	7193.87	-753.20	-4148.31	0.00	4193.35
11715.00	90.12	267.69	7193.71	-757.83	-4238.19	0.00	4283.32
11805.00	90.43	269.45	7193.28	-760.07	-4328.16	0.00	4373.20
11895.00	90.43	268.95	7192.60	-761.33	-4418.15	0.00	4463.03
11984.00	90.65	269.98	7191.76	-762.16	-4507.14	0.00	4551.83
12074.00	90.58	268.34	7190.80	-763.48	-4597.12	0.00	4641.65
12164.00	90.25	268.77	7190.14	-765.75	-4687.09	0.00	4731.54

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
12253.00	89.75	269.42	7190.14	-767.16	-4776.08	0.00	4820.38
12343.00	89.41	268.36	7190.80	-768.90	-4866.06	0.00	4910.23
12433.00	89.63	268.85	7191.56	-771.09	-4956.03	0.00	5000.11
12524.00	89.45	267.53	7192.29	-773.96	-5046.98	0.00	5091.02
12614.00	89.32	270.47	7193.26	-775.53	-5136.95	0.00	5180.85
12704.00	90.31	270.98	7193.55	-774.40	-5226.94	0.00	5270.50
12794.00	89.88	270.44	7193.40	-773.28	-5316.93	0.00	5360.15
12884.00	90.34	270.73	7193.22	-772.36	-5406.93	0.00	5449.82
12973.00	90.80	271.17	7192.34	-770.89	-5495.91	0.00	5538.43
13063.00	90.68	269.36	7191.18	-770.47	-5585.90	0.00	5628.13
13153.00	89.66	269.71	7190.91	-771.20	-5675.89	0.00	5717.93
13242.00	90.15	269.02	7191.06	-772.19	-5764.89	0.00	5806.74
13332.00	89.35	269.23	7191.45	-773.56	-5854.87	0.00	5896.58
13422.00	89.94	268.92	7192.01	-775.01	-5944.86	0.00	5986.41
13511.00	90.89	269.53	7191.36	-776.22	-6033.85	0.00	6075.24
13601.00	90.98	269.52	7189.89	-776.96	-6123.83	0.00	6165.02
13691.00	90.74	269.10	7188.54	-778.05	-6213.82	0.00	6254.83
13781.00	90.40	268.48	7187.65	-779.95	-6303.79	0.00	6344.69
13870.00	90.52	268.43	7186.93	-782.35	-6392.76	0.00	6433.59
13960.00	90.68	268.64	7185.99	-784.65	-6482.72	0.00	6523.47
14050.00	90.98	268.73	7184.69	-786.71	-6572.69	0.00	6613.33
14140.00	90.95	269.30	7183.17	-788.26	-6662.66	0.00	6703.17
14229.00	90.22	269.43	7182.26	-789.25	-6751.65	0.00	6791.98
14319.00	90.31	269.72	7181.85	-789.91	-6841.65	0.00	6881.77
14409.00	90.18	269.10	7181.46	-790.84	-6931.64	0.00	6971.57
14498.00	90.03	268.90	7181.30	-792.39	-7020.63	0.00	7060.42
14588.00	89.91	268.61	7181.35	-794.35	-7110.61	0.00	7150.29
14677.00	89.91	269.11	7181.49	-796.12	-7199.59	0.00	7239.15
14767.00	89.91	268.38	7181.63	-798.09	-7289.57	0.00	7329.02
14857.00	90.77	269.10	7181.09	-800.07	-7379.54	0.00	7418.89
14946.00	90.46	268.46	7180.14	-801.97	-7468.51	0.00	7507.75
15036.00	90.68	269.85	7179.24	-803.29	-7558.50	0.00	7597.58
15126.00	90.74	270.15	7178.13	-803.29	-7648.49	0.00	7687.32
15215.00	90.83	270.05	7176.91	-803.14	-7737.48	0.00	7776.04
15305.00	90.49	269.82	7175.87	-803.24	-7827.48	0.00	7865.79
15395.00	92.09	269.45	7173.84	-803.81	-7917.45	0.00	7955.54
15484.00	92.34	269.61	7170.40	-804.54	-8006.38	0.00	8044.28
15574.00	92.40	269.61	7166.68	-805.15	-8096.30	0.00	8133.99
15664.00	92.40	269.94	7162.91	-805.51	-8186.22	0.00	8223.68
15754.00	92.43	269.93	7159.12	-805.61	-8276.14	0.00	8313.35
15843.00	91.75	270.32	7155.88	-805.42	-8365.08	0.00	8402.02
15933.00	91.88	270.95	7153.03	-804.42	-8455.03	0.00	8491.64
16023.00	91.60	269.66	7150.29	-803.94	-8544.98	0.00	8581.30
16113.00	91.38	268.55	7147.95	-805.34	-8634.94	0.00	8671.10
16202.00	91.45	269.41	7145.75	-806.93	-8723.90	0.00	8759.93
16292.00	91.69	268.92	7143.29	-808.24	-8813.86	0.00	8849.73
16382.00	92.12	270.16	7140.30	-808.96	-8903.80	0.00	8939.47
16472.00	91.41	269.26	7137.52	-809.42	-8993.76	0.00	9029.20
16561.00	91.60	269.60	7135.19	-810.30	-9082.72	0.00	9117.98
16651.00	91.48	269.29	7132.77	-811.17	-9172.68	0.00	9207.75
16741.00	91.69	269.08	7130.28	-812.45	-9262.64	0.00	9297.55
16830.00	91.88	269.13	7127.51	-813.84	-9351.59	0.00	9386.34
16920.00	91.66	269.02	7124.73	-815.30	-9441.53	0.00	9476.14
17010.00	91.97	269.49	7121.88	-816.46	-9531.48	0.00	9565.92
17100.00	92.12	270.01	7118.66	-816.86	-9621.42	0.00	9655.63
17189.00	92.28	270.04	7115.25	-816.82	-9710.35	0.00	9744.31
17279.00	91.75	269.77	7112.08	-816.97	-9800.30	0.00	9834.01
17369.00	91.79	269.38	7109.30	-817.63	-9890.25	0.00	9923.76
17458.00	91.69	268.99	7106.60	-818.90	-9979.20	0.00	10012.55
17548.00	91.94	270.11	7103.75	-819.61	-10069.15	0.00	10102.30
17638.00	92.18	271.19	7100.52	-818.59	-10159.09	0.00	10191.90
17727.00	92.06	269.40	7097.22	-818.13	-10248.02	0.00	10280.54
17817.00	92.40	270.32	7093.72	-818.35	-10337.95	0.00	10370.23
17907.00	92.43	270.45	7089.93	-817.74	-10427.87	0.00	10459.85
17996.00	92.28	270.28	7086.27	-817.18	-10516.79	0.00	10548.47
18086.00	90.92	270.19	7083.76	-816.81	-10606.76	0.00	10638.15
18176.00	90.83	269.07	7082.38	-817.39	-10696.74	0.00	10727.92
18262.00	90.71	269.60	7081.23	-818.39	-10782.73	0.00	10813.74
18286.00	90.71	269.60	7080.93	-818.56	-10866.72	0.00	10837.68