



Great Western Operating Co, LLC  
 Directional Survey Report  
 Wellpath: Postle IC 09-059HNX  
 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
14.00	0.00	312.31	14.00	0.00	0.00	0.00	0.00
91.00	0.44	312.31	91.00	0.20	-0.22	0.57	0.23
178.00	0.70	347.37	178.00	0.94	-0.58	0.49	0.64
270.00	0.79	356.43	269.99	2.12	-0.74	0.16	0.89
363.00	1.01	2.32	362.98	3.58	-0.75	0.26	0.99
452.00	1.10	21.65	451.96	5.16	-0.40	0.41	0.75
542.00	1.89	10.49	541.93	7.42	0.18	0.93	0.32
632.00	1.76	12.86	631.88	10.23	0.76	0.17	-0.07
722.00	1.85	12.25	721.84	13.00	1.38	0.10	-0.49
812.00	2.55	10.58	811.77	16.38	2.05	0.78	-0.94
902.00	2.94	355.20	901.67	20.65	2.23	0.92	-0.82
992.00	2.07	342.98	991.58	24.51	1.56	1.13	0.11
1082.00	1.71	335.33	1081.54	27.28	0.52	0.49	1.33
1172.00	0.83	294.99	1171.51	28.78	-0.63	1.34	2.58
1262.00	0.35	39.49	1261.51	29.26	-1.04	1.09	3.03
1352.00	0.35	53.03	1351.51	29.64	-0.65	0.09	2.66
1442.00	0.48	332.26	1441.51	30.14	-0.61	0.61	2.65
1501.00	0.48	164.91	1500.51	30.12	-0.66	1.62	2.70
1504.00	0.31	205.77	1503.51	30.10	-0.66	10.62	2.70
1565.00	0.38	176.03	1564.51	29.75	-0.71	0.31	2.73
1620.00	0.03	41.36	1619.50	29.58	-0.69	0.73	2.70
1710.00	0.07	304.42	1709.50	29.63	-0.72	0.09	2.73
1800.00	0.10	303.60	1799.50	29.70	-0.83	0.03	2.85
1889.00	0.14	265.17	1888.50	29.74	-1.01	0.10	3.02
1978.00	0.07	250.71	1977.50	29.71	-1.16	0.08	3.18
2068.00	0.06	278.47	2067.50	29.70	-1.26	0.04	3.28
2157.00	0.07	269.91	2156.50	29.71	-1.36	0.00	3.38
2247.00	0.25	335.43	2246.50	29.88	-1.50	0.26	3.53
2336.00	0.15	284.71	2335.50	30.09	-1.69	0.22	3.73
2425.00	0.16	277.68	2424.50	30.14	-1.93	0.02	3.97
2515.00	0.44	262.27	2514.50	30.11	-2.40	0.32	4.43
2604.00	0.04	201.09	2603.50	30.03	-2.75	0.47	4.78
2694.00	0.14	292.02	2693.50	30.04	-2.86	0.16	4.89
2783.00	0.34	309.17	2782.50	30.25	-3.17	0.24	5.21
2873.00	0.29	294.18	2872.50	30.51	-3.58	0.11	5.64
2963.00	0.16	333.74	2962.50	30.72	-3.84	0.22	5.92
3052.00	0.09	329.67	3051.50	30.89	-3.93	0.08	6.02
3142.00	0.46	282.60	3141.50	31.03	-4.32	0.45	6.42
3231.00	0.32	352.46	3230.49	31.36	-4.70	0.52	6.82
3321.00	2.22	59.55	3320.47	32.49	-3.23	2.35	5.43
3410.00	0.07	310.54	3409.45	33.40	-1.79	2.52	4.05
3500.00	2.35	165.25	3499.42	31.65	-1.36	2.68	3.51
3589.00	0.14	317.02	3588.40	29.96	-0.97	2.78	3.00
3679.00	0.10	15.30	3678.40	30.12	-1.02	0.14	3.07
3768.00	0.07	350.49	3767.40	30.25	-1.01	0.05	3.06
3858.00	0.10	211.41	3857.40	30.23	-1.06	0.18	3.11
3948.00	0.21	252.83	3947.40	30.12	-1.26	0.17	3.30
4037.00	0.57	175.42	4036.40	29.63	-1.38	0.63	3.39
4126.00	0.23	298.66	4125.40	29.27	-1.50	0.81	3.49
4216.00	0.07	311.96	4215.40	29.40	-1.70	0.18	3.69
4305.00	0.06	72.32	4304.40	29.45	-1.70	0.13	3.69
4395.00	0.07	357.51	4394.40	29.52	-1.66	0.09	3.66
4484.00	0.07	311.69	4483.40	29.61	-1.70	0.06	3.70
4574.00	0.09	321.64	4573.40	29.70	-1.78	0.03	3.80
4663.00	0.06	312.49	4662.40	29.79	-1.86	0.04	3.88
4753.00	0.12	269.64	4752.40	29.82	-1.99	0.10	4.01
4843.00	0.22	315.47	4842.40	29.94	-2.21	0.18	4.23
4932.00	0.06	341.30	4931.40	30.11	-2.34	0.19	4.38
5022.00	2.23	41.43	5021.37	31.46	-1.20	2.45	3.33
5111.00	4.95	43.54	5110.19	35.55	2.59	3.06	-0.18
5201.00	5.58	42.02	5199.81	41.61	8.20	0.72	-5.36
5291.00	9.47	41.69	5289.02	50.39	16.05	4.32	-12.60
5380.00	11.69	42.16	5376.50	62.55	26.98	2.50	-22.67
5470.00	14.72	41.23	5464.11	77.91	40.64	3.37	-35.26

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
5559.00	17.17	40.65	5549.68	96.38	56.65	2.76	-49.98
5649.00	20.52	44.01	5634.84	117.81	76.27	3.91	-68.10
5739.00	22.69	44.47	5718.52	141.55	99.39	2.42	-89.56
5828.00	26.20	45.09	5799.53	167.68	125.34	3.95	-113.67
5918.00	25.99	29.43	5880.45	198.92	149.13	7.64	-135.28
6008.00	31.36	35.75	5959.40	235.13	172.52	6.85	-156.17
6097.00	30.22	40.70	6035.87	270.91	200.66	3.12	-181.81
6187.00	29.55	43.90	6113.90	304.08	230.82	1.92	-209.65
6276.00	29.37	44.70	6191.40	335.41	261.39	0.49	-238.03
6366.00	29.28	42.06	6269.87	367.43	291.66	1.44	-266.05
6456.00	29.44	35.14	6348.33	401.87	319.15	3.77	-291.13
6545.00	23.91	15.24	6427.98	437.26	336.52	11.73	-306.07
6635.00	23.80	353.42	6510.46	472.96	339.24	9.76	-306.36
6724.00	22.19	336.56	6592.47	506.26	330.49	7.59	-295.37
6814.00	23.83	319.17	6675.41	535.65	311.82	7.74	-274.74
6903.00	30.48	310.77	6754.58	564.03	282.93	8.61	-243.99
6993.00	37.22	300.88	6829.34	592.97	242.20	9.65	-201.40
7082.00	45.32	296.01	6896.19	620.71	190.56	9.79	-147.99
7172.00	53.92	292.44	6954.46	648.68	128.06	10.02	-83.74
7261.00	62.88	287.08	7001.07	674.11	56.78	11.29	-10.89
7350.00	70.29	279.59	7036.45	692.77	-22.60	11.35	69.56
7440.00	75.25	268.83	7063.18	698.96	-108.16	12.67	155.35
7529.00	84.79	263.80	7078.59	693.28	-195.50	12.07	242.10
7574.00	90.43	265.97	7080.47	689.27	-240.26	13.43	286.49
7619.00	90.31	269.62	7080.18	687.54	-285.22	8.12	331.22
7708.00	89.66	268.76	7080.20	686.28	-374.21	1.21	419.92
7798.00	89.45	269.30	7080.90	684.76	-464.19	0.64	509.59
7887.00	89.57	269.34	7081.66	683.70	-553.18	0.14	598.31
7977.00	89.54	269.28	7082.36	682.62	-643.17	0.07	688.02
8066.00	89.23	270.08	7083.31	682.12	-732.16	0.96	776.77
8156.00	89.54	270.65	7084.28	682.70	-822.16	0.72	866.60
8245.00	89.38	270.06	7085.12	683.25	-911.15	0.69	955.42
8335.00	89.48	270.19	7086.02	683.44	-1001.15	0.18	1045.22
8424.00	89.91	269.83	7086.49	683.46	-1090.14	0.63	1134.02
8514.00	90.15	271.11	7086.44	684.20	-1180.14	1.45	1223.85
8603.00	89.66	269.75	7086.59	684.86	-1269.13	1.62	1312.69
8693.00	89.69	269.31	7087.10	684.13	-1359.13	0.49	1402.43
8782.00	89.78	269.06	7087.51	682.86	-1448.12	0.30	1491.13
8872.00	89.75	269.72	7087.88	681.90	-1538.11	0.73	1580.85
8962.00	89.35	268.95	7088.59	680.86	-1628.10	0.96	1670.56
9051.00	89.69	269.49	7089.33	679.65	-1717.09	0.72	1759.26
9141.00	89.85	269.13	7089.69	678.56	-1807.08	0.44	1848.97
9230.00	89.88	268.50	7089.90	676.72	-1896.06	0.71	1937.62
9320.00	90.09	269.61	7089.93	675.24	-1986.05	1.26	2027.30
9409.00	89.32	269.53	7090.39	674.57	-2075.05	0.87	2116.04
9498.00	88.92	268.72	7091.75	673.21	-2164.02	1.01	2204.73
9588.00	89.08	268.80	7093.32	671.26	-2253.99	0.20	2294.35
9678.00	89.08	269.35	7094.77	669.81	-2343.97	0.61	2384.02
9767.00	89.02	268.19	7096.24	667.90	-2432.93	1.30	2472.65
9857.00	89.32	268.76	7097.55	665.51	-2522.89	0.72	2562.24
9947.00	89.11	268.86	7098.78	663.64	-2612.86	0.26	2651.88
10036.00	89.29	268.45	7100.02	661.55	-2701.83	0.50	2740.50
10126.00	89.17	269.70	7101.23	660.10	-2791.81	1.40	2830.17
10215.00	88.95	269.26	7102.69	659.29	-2880.79	0.55	2918.89
10305.00	88.74	268.83	7104.51	657.79	-2970.76	0.53	3008.55
10394.00	88.86	269.48	7106.37	656.48	-3059.73	0.74	3097.23
10484.00	89.66	268.51	7107.53	654.90	-3149.71	1.40	3186.89
10573.00	90.37	270.32	7107.51	653.99	-3238.70	2.18	3275.62
10662.00	90.58	266.38	7106.77	651.43	-3327.64	4.43	3364.18
10752.00	88.71	269.43	7107.33	648.14	-3417.56	3.97	3453.67
10842.00	89.05	268.86	7109.09	646.79	-3507.54	0.74	3543.35
10932.00	90.28	269.95	7109.62	645.86	-3597.53	1.83	3633.07
11021.00	89.85	268.78	7109.51	644.87	-3686.52	1.40	3721.79
11111.00	89.88	268.68	7109.73	642.88	-3776.50	0.12	3811.42
11201.00	90.22	269.00	7109.65	641.06	-3866.48	0.52	3901.07
11290.00	90.74	270.38	7108.90	640.58	-3955.47	1.66	3989.83
11380.00	89.69	269.35	7108.56	640.36	-4045.47	1.63	4079.60
11470.00	89.88	270.14	7108.90	639.96	-4135.47	0.90	4169.36
11560.00	89.85	270.26	7109.11	640.28	-4225.47	0.14	4259.18
11649.00	89.75	270.28	7109.42	640.70	-4314.46	0.11	4348.00
11739.00	91.45	271.37	7108.48	641.99	-4404.44	2.24	4437.86
11828.00	91.26	271.47	7106.38	644.20	-4493.39	0.24	4526.75

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
11918.00	90.25	270.20	7105.19	645.51	-4583.37	1.80	4616.61
12007.00	90.55	271.49	7104.57	646.82	-4672.36	1.49	4705.48
12097.00	90.22	269.95	7103.97	647.95	-4762.35	1.75	4795.34
12186.00	90.49	269.44	7103.41	647.48	-4851.34	0.65	4884.10
12276.00	90.92	271.54	7102.31	648.25	-4941.33	2.38	4973.93
12365.00	90.71	271.03	7101.04	650.24	-5030.30	0.62	5062.83
12455.00	90.52	270.53	7100.07	651.47	-5120.28	0.59	5152.69
12544.00	90.55	270.94	7099.24	652.61	-5209.27	0.46	5241.55
12634.00	90.37	269.85	7098.52	653.23	-5299.26	1.23	5331.38
12723.00	90.52	269.67	7097.83	652.86	-5388.26	0.26	5420.15
12813.00	90.58	269.37	7096.97	652.10	-5478.25	0.34	5509.88
12902.00	90.55	270.21	7096.09	651.78	-5567.25	0.94	5598.65
12992.00	91.38	268.55	7094.57	650.80	-5657.23	2.06	5688.35
13082.00	92.18	269.26	7091.78	649.08	-5747.16	1.19	5777.97
13171.00	92.06	269.68	7088.48	648.26	-5836.10	0.49	5866.64
13260.00	92.06	269.14	7085.29	647.35	-5925.04	0.61	5955.31
13350.00	91.91	268.74	7082.17	645.68	-6014.97	0.47	6044.92
13440.00	92.12	268.33	7079.00	643.38	-6104.88	0.51	6134.47
13529.00	91.75	267.52	7076.00	640.16	-6193.77	1.00	6222.94
13619.00	91.57	267.26	7073.39	636.06	-6283.64	0.35	6312.32
13708.00	91.60	267.46	7070.93	631.97	-6372.51	0.23	6400.71
13797.00	91.26	266.58	7068.71	627.34	-6461.36	1.06	6489.04
13887.00	91.54	267.90	7066.51	623.01	-6551.23	1.50	6578.41
13976.00	90.46	267.16	7064.96	619.17	-6640.13	1.47	6666.84
14066.00	90.15	266.67	7064.48	614.33	-6730.00	0.64	6756.18
14155.00	90.77	268.21	7063.76	610.36	-6818.91	1.87	6844.61
14245.00	92.25	270.65	7061.39	609.46	-6908.86	3.17	6934.29
14335.00	91.82	269.27	7058.19	609.40	-6998.80	1.61	7024.02
14424.00	92.06	270.01	7055.18	608.84	-7087.75	0.87	7112.73
14514.00	92.06	269.50	7051.95	608.45	-7177.69	0.57	7202.43
14604.00	92.06	269.43	7048.71	607.61	-7267.63	0.08	7292.11
14693.00	91.97	269.39	7045.58	606.70	-7356.57	0.11	7380.78
14783.00	91.57	268.51	7042.80	605.05	-7446.51	1.07	7470.40
14873.00	91.91	270.49	7040.07	604.26	-7536.46	2.23	7560.09
14962.00	92.25	270.19	7036.84	604.79	-7625.40	0.51	7648.86
15052.00	91.32	267.77	7034.03	603.19	-7715.33	2.88	7738.48
15142.00	91.23	270.00	7032.03	601.44	-7805.29	2.48	7828.11
15231.00	91.57	271.65	7029.86	602.72	-7894.25	1.89	7916.95
15321.00	91.17	270.79	7027.71	604.64	-7984.20	1.05	8006.83
15411.00	90.43	270.45	7026.45	605.61	-8074.19	0.90	8096.67
15500.00	90.46	270.63	7025.76	606.45	-8163.18	0.21	8185.52
15590.00	90.43	270.55	7025.06	607.38	-8253.17	0.09	8275.36
15680.00	89.82	270.16	7024.86	607.93	-8343.17	0.80	8365.19
15769.00	90.80	271.57	7024.38	609.28	-8432.15	1.93	8454.06
15859.00	90.40	269.19	7023.44	609.87	-8522.14	2.68	8543.88
15949.00	90.12	268.89	7023.03	608.37	-8612.13	0.46	8633.56
16038.00	89.75	268.59	7023.13	606.41	-8701.10	0.54	8722.20
16128.00	90.12	268.46	7023.23	604.09	-8791.07	0.44	8811.80
16175.00	90.12	269.37	7023.13	603.20	-8838.07	1.94	8858.63
16200.00	90.12	269.37	7023.08	602.93	-8863.06	0.00	8883.55