



Great Western Operating Co, LLC  
 Directional Survey Report  
 Wellpath: Postle IC 09-022HC  
 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	0.00
14.00	0.00	185.13	14.00	0.00	0.00	0.00	0.00
91.00	0.31	185.13	91.00	-0.21	-0.02	0.00	0.00
178.00	0.13	232.41	178.00	-0.50	-0.12	0.00	0.08
270.00	0.57	203.94	270.00	-0.98	-0.39	0.00	0.31
363.00	0.92	197.33	362.99	-2.12	-0.80	0.00	0.63
452.00	1.19	165.97	451.97	-3.70	-0.79	0.00	0.49
542.00	1.63	169.22	541.95	-5.86	-0.32	0.00	-0.14
632.00	2.07	185.66	631.90	-8.74	-0.24	0.00	-0.45
722.00	2.24	182.14	721.84	-12.11	-0.47	0.00	-0.49
812.00	2.33	177.40	811.77	-15.70	-0.45	0.00	-0.79
902.00	2.59	169.49	901.68	-19.52	0.01	0.00	-1.54
992.00	3.12	176.69	991.57	-23.97	0.52	0.00	-2.40
1082.00	2.33	181.44	1081.47	-28.24	0.61	0.00	-2.84
1172.00	1.71	159.47	1171.41	-31.33	1.04	0.00	-3.50
1262.00	0.44	103.30	1261.40	-32.67	1.85	0.00	-4.41
1352.00	0.22	315.74	1351.40	-32.62	2.06	0.00	-4.63
1442.00	0.62	307.12	1441.39	-32.21	1.55	0.00	-4.08
1501.00	0.66	311.34	1500.39	-31.79	1.04	0.00	-3.54
1620.00	0.17	221.16	1619.39	-31.47	0.41	0.00	-2.89
1710.00	0.00	98.07	1709.39	-31.57	0.32	0.00	-2.81
1800.00	0.10	242.16	1799.39	-31.61	0.25	0.00	-2.74
1889.00	0.47	32.97	1888.39	-31.34	0.38	0.00	-2.85
1978.00	0.03	338.64	1977.39	-31.01	0.57	0.00	-3.02
2068.00	0.16	178.22	2067.39	-31.11	0.57	0.00	-3.02
2157.00	0.07	201.39	2156.39	-31.29	0.55	0.00	-3.02
2247.00	0.46	222.52	2246.38	-31.60	0.29	0.00	-2.78
2336.00	0.22	17.16	2335.38	-31.70	0.10	0.00	-2.60
2426.00	0.45	194.63	2425.38	-31.88	0.06	0.00	-2.57
2515.00	0.07	133.71	2514.38	-32.26	0.01	0.00	-2.55
2605.00	0.29	260.83	2604.38	-32.33	-0.17	0.00	-2.37
2694.00	0.21	143.59	2693.38	-32.50	-0.30	0.00	-2.26
2784.00	0.19	11.66	2783.38	-32.48	-0.17	0.00	-2.39
2873.00	0.64	184.75	2872.38	-32.83	-0.18	0.00	-2.41
2963.00	0.32	16.67	2962.38	-33.10	-0.15	0.00	-2.46
3053.00	0.66	220.76	3052.38	-33.25	-0.42	0.00	-2.20
3142.00	0.37	304.40	3141.37	-33.47	-0.99	0.00	-1.65
3232.00	0.43	151.28	3231.37	-33.60	-1.07	0.00	-1.58
3321.00	1.22	291.47	3320.37	-33.55	-1.79	0.00	-0.86
3411.00	0.19	66.37	3410.36	-33.14	-2.54	0.00	-0.08
3500.00	1.08	48.53	3499.35	-32.53	-1.78	0.00	-0.79
3590.00	1.39	27.16	3589.33	-30.99	-0.65	0.00	-1.80
3679.00	0.31	88.49	3678.32	-30.03	0.09	0.00	-2.45
3769.00	0.04	197.42	3768.32	-30.05	0.32	0.00	-2.69
3858.00	0.09	273.15	3857.32	-30.08	0.24	0.00	-2.61
3948.00	0.11	305.75	3947.32	-30.02	0.10	0.00	-2.47
4037.00	0.31	96.12	4036.32	-30.00	0.27	0.00	-2.63
4127.00	0.12	104.62	4126.32	-30.05	0.60	0.00	-2.97
4216.00	0.18	271.65	4215.32	-30.07	0.55	0.00	-2.92
4306.00	0.06	326.82	4305.32	-30.02	0.39	0.00	-2.75
4395.00	0.07	235.72	4394.32	-30.01	0.32	0.00	-2.68
4485.00	0.17	78.85	4484.32	-30.02	0.40	0.00	-2.77
4574.00	0.10	325.07	4573.32	-29.93	0.49	0.00	-2.84
4664.00	0.10	278.09	4663.32	-29.85	0.37	0.00	-2.72
4754.00	0.00	98.07	4753.32	-29.84	0.29	0.00	-2.64
4843.00	0.06	61.58	4842.32	-29.82	0.33	0.00	-2.68
4933.00	0.10	321.62	4932.32	-29.74	0.32	0.00	-2.66
5022.00	2.78	29.99	5021.29	-27.81	1.35	0.00	-3.54
5112.00	6.98	28.87	5110.94	-21.12	5.08	0.00	-6.73
5202.00	7.86	26.36	5200.19	-10.82	10.46	0.00	-11.28
5291.00	8.86	29.47	5288.24	0.60	16.53	0.00	-16.43
5380.00	11.81	29.32	5375.79	14.51	24.37	0.00	-23.15
5470.00	15.29	28.79	5463.27	32.95	34.59	0.00	-31.89
5560.00	18.43	28.97	5549.39	55.80	47.20	0.00	-42.66
5649.00	22.47	31.17	5632.76	82.67	62.83	0.00	-56.12
5739.00	24.24	37.28	5715.40	112.09	82.92	0.00	-73.83
5829.00	27.60	29.41	5796.36	144.97	104.36	0.00	-92.62

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
5918.00	29.30	24.70	5874.62	182.73	123.59	0.00	-108.81
6008.00	31.77	25.43	5952.13	224.14	142.97	0.00	-124.86
6098.00	31.89	26.41	6028.59	266.83	163.72	0.00	-142.18
6187.00	32.13	29.88	6104.07	308.41	185.97	0.00	-161.09
6277.00	31.79	27.42	6180.43	350.20	208.81	0.00	-180.56
6367.00	32.01	27.60	6256.84	392.39	230.78	0.00	-199.14
6456.00	32.23	27.87	6332.21	434.27	252.80	0.00	-217.79
6545.00	31.48	27.40	6407.81	475.88	274.59	0.00	-236.24
6635.00	31.99	27.72	6484.35	517.85	296.49	0.00	-254.76
6725.00	32.34	27.58	6560.54	560.29	318.73	0.00	-273.59
6814.00	31.98	27.70	6635.88	602.26	340.70	0.00	-292.19
6904.00	32.29	22.07	6712.11	645.65	360.82	0.00	-308.82
6993.00	30.13	2.99	6788.42	690.10	370.94	0.00	-315.41
7083.00	30.75	346.62	6866.14	735.12	366.79	0.00	-307.72
7172.00	32.14	335.00	6942.14	778.75	351.50	0.00	-289.05
7261.00	35.67	320.35	7016.12	820.27	324.89	0.00	-259.24
7351.00	40.31	305.12	7087.19	857.32	284.22	0.00	-215.78
7440.00	47.63	297.40	7151.25	889.08	231.37	0.00	-160.60
7529.00	56.20	291.74	7206.12	917.98	167.69	0.00	-94.83
7619.00	63.85	285.48	7251.09	942.66	93.86	0.00	-19.29
7709.00	70.80	279.80	7285.79	960.71	12.90	0.00	62.85
7798.00	78.06	274.17	7309.68	971.05	-72.11	0.00	148.41
7887.00	85.44	268.54	7322.45	973.09	-160.07	0.00	236.25
7932.00	90.09	268.96	7324.20	972.11	-205.01	0.00	280.98
7977.00	89.57	268.34	7324.34	971.05	-250.00	0.00	325.74
8067.00	89.78	268.97	7324.85	968.94	-339.97	0.00	415.27
8156.00	88.55	268.77	7326.15	967.18	-428.95	0.00	503.82
8246.00	89.32	269.25	7327.82	965.63	-518.92	0.00	593.39
8335.00	89.32	269.03	7328.87	964.29	-607.90	0.00	681.99
8425.00	88.92	269.12	7330.26	962.84	-697.88	0.00	771.58
8514.00	88.89	268.96	7331.96	961.35	-786.85	0.00	860.15
8604.00	89.26	269.44	7333.41	960.09	-876.83	0.00	949.75
8693.00	89.11	269.46	7334.68	959.24	-965.81	0.00	1038.40
8783.00	88.95	269.34	7336.20	958.30	-1055.80	0.00	1128.03
8872.00	89.66	269.38	7337.28	957.30	-1144.78	0.00	1216.66
8962.00	89.57	268.94	7337.88	955.98	-1234.77	0.00	1306.26
9052.00	88.49	269.09	7339.41	954.44	-1324.74	0.00	1395.83
9141.00	88.80	269.38	7341.51	953.25	-1413.71	0.00	1484.43
9231.00	88.80	269.40	7343.40	952.29	-1503.69	0.00	1574.05
9320.00	88.68	269.51	7345.35	951.44	-1592.66	0.00	1662.68
9409.00	89.82	269.44	7346.52	950.63	-1681.65	0.00	1751.33
9499.00	89.48	269.27	7347.07	949.62	-1771.64	0.00	1840.96
9588.00	89.51	268.79	7347.85	948.11	-1860.62	0.00	1929.55
9678.00	89.85	269.11	7348.36	946.46	-1950.61	0.00	2019.12
9768.00	89.78	269.60	7348.65	945.45	-2040.60	0.00	2108.75
9857.00	89.45	269.56	7349.24	944.79	-2129.60	0.00	2197.42
9947.00	89.42	268.94	7350.13	943.62	-2219.58	0.00	2287.04
10037.00	88.98	269.44	7351.39	942.34	-2309.56	0.00	2376.64
10126.00	89.29	269.53	7352.73	941.54	-2398.55	0.00	2465.29
10216.00	89.75	269.54	7353.49	940.81	-2488.54	0.00	2554.94
10305.00	89.54	269.51	7354.04	940.08	-2577.54	0.00	2643.60
10395.00	90.00	269.63	7354.40	939.40	-2667.54	0.00	2733.27
10484.00	89.91	269.47	7354.47	938.70	-2756.53	0.00	2821.93
10573.00	89.69	269.48	7354.78	937.89	-2845.53	0.00	2910.59
10663.00	89.72	269.42	7355.24	937.02	-2935.52	0.00	3000.23
10753.00	89.94	269.53	7355.51	936.20	-3025.52	0.00	3089.88
10842.00	90.00	269.81	7355.56	935.69	-3114.52	0.00	3178.56
10932.00	89.78	269.63	7355.73	935.25	-3204.52	0.00	3268.25
11022.00	90.12	269.67	7355.81	934.70	-3294.51	0.00	3357.92
11112.00	89.88	269.42	7355.81	933.98	-3384.51	0.00	3447.58
11201.00	88.89	269.48	7356.76	933.13	-3473.50	0.00	3536.23
11290.00	88.86	269.48	7358.51	932.32	-3562.48	0.00	3624.87
11380.00	89.32	269.30	7359.94	931.36	-3652.46	0.00	3714.50
11470.00	88.37	269.54	7361.75	930.45	-3742.44	0.00	3804.12
11560.00	88.46	269.53	7364.24	929.72	-3832.40	0.00	3893.75
11650.00	88.22	269.43	7366.85	928.90	-3922.36	0.00	3983.36
11739.00	89.32	270.00	7368.76	928.46	-4011.34	0.00	4072.03
11829.00	90.34	269.63	7369.03	928.17	-4101.34	0.00	4161.72
11918.00	90.46	269.91	7368.41	927.81	-4190.33	0.00	4250.41
12008.00	90.86	268.92	7367.37	926.89	-4280.32	0.00	4340.05
12097.00	91.42	269.00	7365.60	925.28	-4369.29	0.00	4428.61
12187.00	92.03	269.23	7362.89	923.89	-4459.24	0.00	4518.17
12276.00	91.97	269.03	7359.78	922.54	-4548.17	0.00	4606.72
12366.00	92.37	268.83	7356.38	920.86	-4638.09	0.00	4696.23

MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	DLS [deg/100ft]	Vertical Section[ft]
12455.00	92.25	269.12	7352.79	919.27	-4727.00	0.00	4784.74
12545.00	91.39	269.28	7349.93	918.01	-4816.95	0.00	4874.31
12634.00	90.62	268.81	7348.37	916.53	-4905.92	0.00	4962.89
12724.00	90.71	268.82	7347.33	914.67	-4995.90	0.00	5052.44
12813.00	90.77	269.24	7346.18	913.16	-5084.88	0.00	5141.02
12903.00	90.68	268.70	7345.04	911.54	-5174.85	0.00	5230.59
12992.00	91.01	268.87	7343.72	909.66	-5263.82	0.00	5319.14
13082.00	91.57	268.93	7341.70	907.93	-5353.78	0.00	5408.68
13171.00	91.94	269.18	7338.97	906.46	-5442.73	0.00	5497.23
13261.00	91.66	268.05	7336.15	904.29	-5532.66	0.00	5586.71
13350.00	91.97	268.98	7333.33	901.98	-5621.58	0.00	5675.18
13440.00	92.16	269.44	7330.08	900.74	-5711.52	0.00	5764.73
13530.00	91.88	268.50	7326.91	899.13	-5801.44	0.00	5854.25
13619.00	91.66	269.50	7324.16	897.57	-5890.39	0.00	5942.80
13708.00	91.51	268.64	7321.70	896.13	-5979.34	0.00	6031.36
13798.00	91.60	270.14	7319.26	895.17	-6069.30	0.00	6120.97
13887.00	91.69	269.18	7316.70	894.64	-6158.26	0.00	6209.61
13977.00	91.29	270.30	7314.36	894.24	-6248.23	0.00	6299.26
14066.00	91.29	270.03	7312.36	894.49	-6337.20	0.00	6387.98
14156.00	91.05	269.99	7310.52	894.51	-6427.18	0.00	6477.69
14245.00	90.25	269.67	7309.51	894.24	-6516.18	0.00	6566.38
14335.00	91.05	269.89	7308.49	893.90	-6606.17	0.00	6656.07
14424.00	91.32	270.00	7306.65	893.81	-6695.15	0.00	6744.76
14514.00	90.65	269.72	7305.10	893.59	-6785.14	0.00	6834.45
14604.00	90.83	269.23	7303.94	892.77	-6875.13	0.00	6924.10
14694.00	90.71	270.06	7302.73	892.21	-6965.12	0.00	7013.76
14783.00	90.55	269.96	7301.75	892.23	-7054.11	0.00	7102.48
14873.00	90.92	270.20	7300.60	892.35	-7144.10	0.00	7192.20
14963.00	90.98	268.86	7299.11	891.61	-7234.08	0.00	7281.85
15052.00	90.80	269.32	7297.72	890.20	-7323.06	0.00	7370.44
15142.00	91.29	269.06	7296.08	888.93	-7413.04	0.00	7460.03
15232.00	91.26	268.95	7294.08	887.37	-7503.00	0.00	7549.60
15321.00	91.39	269.23	7292.02	885.95	-7591.97	0.00	7638.17
15411.00	90.98	268.96	7290.16	884.53	-7681.94	0.00	7727.75
15501.00	91.05	268.82	7288.57	882.79	-7771.91	0.00	7817.30
15591.00	90.49	268.75	7287.36	880.88	-7861.88	0.00	7906.84
15680.00	90.61	269.05	7286.50	879.17	-7950.86	0.00	7995.41
15770.00	90.68	268.71	7285.49	877.41	-8040.83	0.00	8084.97
15859.00	90.77	269.10	7284.36	875.71	-8129.81	0.00	8173.54
15949.00	90.65	268.75	7283.25	874.02	-8219.79	0.00	8263.10
16039.00	91.32	269.22	7281.70	872.43	-8309.76	0.00	8352.67
16128.00	91.14	268.77	7279.79	870.87	-8398.72	0.00	8441.23
16218.00	90.71	269.13	7278.34	869.22	-8488.70	0.00	8530.79
16307.00	90.86	268.96	7277.12	867.74	-8577.68	0.00	8619.38
16396.00	90.92	268.94	7275.74	866.11	-8666.65	0.00	8707.95
16486.00	90.62	269.04	7274.53	864.52	-8756.63	0.00	8797.52
16575.00	90.65	268.77	7273.54	862.82	-8845.61	0.00	8886.09
16665.00	90.15	268.21	7272.91	860.45	-8935.57	0.00	8975.59
16754.00	90.83	269.49	7272.15	858.66	-9024.55	0.00	9064.15
16844.00	89.91	269.63	7271.57	857.97	-9114.54	0.00	9153.81
16933.00	90.92	269.40	7270.92	857.22	-9203.54	0.00	9242.47
17023.00	90.86	269.78	7269.53	856.57	-9293.52	0.00	9332.12
17112.00	90.65	269.60	7268.35	856.09	-9382.51	0.00	9420.80
17202.00	90.77	269.73	7267.24	855.57	-9472.51	0.00	9510.47
17291.00	90.65	269.77	7266.14	855.18	-9561.50	0.00	9599.15
17380.00	91.42	269.43	7264.53	854.56	-9650.48	0.00	9687.81
17469.00	91.60	267.39	7262.18	852.09	-9739.41	0.00	9776.27
17559.00	92.12	268.64	7259.26	848.97	-9829.31	0.00	9865.64
17649.00	91.88	272.65	7256.12	849.98	-9919.23	0.00	9955.36
17738.00	91.23	274.16	7253.70	855.27	-10008.03	0.00	10044.31
17828.00	90.31	274.28	7252.49	861.89	-10097.78	0.00	10134.30
17917.00	89.11	270.12	7252.94	865.31	-10186.69	0.00	10223.20
18006.00	88.40	262.51	7254.88	859.59	-10275.42	0.00	10311.21
18096.00	92.89	263.58	7253.87	848.70	-10364.73	0.00	10399.38
18186.00	93.57	273.35	7248.79	846.29	-10454.45	0.00	10488.62
18276.00	90.49	271.00	7245.60	849.70	-10544.31	0.00	10578.48
18365.00	92.92	269.88	7242.95	850.39	-10633.26	0.00	10667.20
18455.00	90.58	272.02	7240.20	851.88	-10723.19	0.00	10756.97
18504.00	90.15	270.83	7239.89	853.10	-10772.17	0.00	10805.90
18529.00	90.15	270.83	7239.82	853.46	-10797.17	0.00	10830.85