

Client: Chesapeake
Field:

Well Name: Bus Barn 1Y-4RD

Permanent datum

Depth measured from

Elevation of kelly bushing

Elevation of drill floor

Elevation of ground level

Magnetic Declination

Grid Convergence

Total Correction

GROUND LEVEL

11476

3926.00 FT

3925.00 FT

3916.00 FT

9.15 DEG

0.00 DEG

9.15 DEG

TIE IN POINT

Measured depth 11300.00 FT

True vertical depth 11298.80 FT

N/S disp (-ve for S) -12.20 FT

E/W disp (-ve for W) -25.80 FT

Inclination 0.40 DEG

Azimuth 275.10 DEG

Azimuth from rotary table

to the target 19.90 DEG

Minimum Curvature Method

MEASURED DEPTH FT	INTERVAL FT	VERTICAL DEPTH FT	TARGET SECTION FT	STATION INCLN. DEG	AZIMUTH DEG	LATITUDE N/-S FT	DEPARTURE E/-W FT	DISPLA- CEMENT FT	at DEG	AZIMUTH DEG	DLS D/HF
11300.0	0.00	11298.80	-20.25	0.40	275.1	-12.20	-25.80	28.54	244.69		0.00
11390.0	90.00	11388.68	-17.06	4.96	347.2	-8.38	-26.98	28.25	252.75		5.39
11402.6	12.60	11401.23	-16.05	5.83	348.4	-7.22	-27.22	28.17	255.15		6.96
11431.3	28.70	11429.77	-13.48	6.11	350.2	-4.28	-27.78	28.11	261.23		1.17
11439.3	8.00	11437.71	-12.59	8.05	358.0	-3.31	-27.87	28.07	263.24		27.01
11444.0	4.70	11442.35	-11.90	9.79	6.8	-2.58	-27.83	27.95	264.71		46.94
11448.6	4.60	11446.86	-11.00	13.15	8.9	-1.67	-27.71	27.76	266.54		73.60
11454.0	5.40	11452.08	-9.65	16.31	11.5	-0.32	-27.46	27.46	269.32		59.77
11457.7	3.70	11455.61	-8.54	18.91	11.2	0.77	-27.24	27.25	271.63		70.31
11463.0	5.30	11460.58	-6.73	21.78	10.5	2.58	-26.89	27.02	275.49		54.35
11468.5	5.50	11465.59	-4.49	26.82	11.2	4.81	-26.47	26.90	280.29		91.78
11475.0	6.50	11471.25	-1.34	31.91	11.2	7.93	-25.85	27.04	287.06		78.31
11480.1	5.10	11475.49	1.46	35.76	10.6	10.72	-25.31	27.49	292.95		75.78
11485.2	5.10	11479.54	4.52	39.04	10.5	13.76	-24.75	28.32	299.08		64.32
11489.0	3.80	11482.44	6.94	41.33	10.3	16.18	-24.30	29.19	303.65		60.36
11493.0	4.00	11485.42	9.58	42.65	10.1	18.81	-23.83	30.36	308.29		33.17
11498.0	5.00	11489.04	12.96	44.27	10.1	22.19	-23.23	32.13	313.70		32.40
11503.6	5.60	11493.01	16.86	45.65	9.8	26.09	-22.54	34.48	319.17		24.93
11507.9	4.30	11495.97	19.93	47.16	10.1	29.16	-22.00	36.53	322.96		35.47
11514.0	6.10	11499.99	24.43	50.32	8.5	33.68	-21.26	39.83	327.74		55.43
11518.0	4.00	11502.47	27.51	53.30	8.1	36.79	-20.81	42.27	330.51		74.91
11523.0	5.00	11505.34	31.51	56.43	7.2	40.85	-20.27	45.60	333.61		64.31
11529.0	6.00	11508.51	36.47	59.88	6.3	45.91	-19.67	49.94	336.81		58.89
11534.0	5.00	11510.89	40.73	63.12	5.2	50.28	-19.23	53.83	339.07		67.62
11539.0	5.00	11513.03	45.10	66.38	4.5	54.78	-18.85	57.94	341.02		66.42
11544.0	5.00	11514.87	49.57	70.46	3.8	59.42	-18.51	62.24	342.70		82.63
11551.3	7.30	11517.16	56.25	72.99	4.9	66.33	-17.99	68.73	344.83		37.50
11566.0	14.70	11520.81	69.98	78.23	4.3	80.52	-16.84	82.26	348.18		35.86
11576.8	10.80	11522.93	80.17	79.15	4.1	91.08	-16.07	92.49	349.99		8.71
11596.7	19.90	11526.31	99.03	81.24	3.9	110.64	-14.70	111.61	352.43		10.55
11614.5	17.80	11528.79	115.98	82.75	4.1	128.23	-13.47	128.93	354.00		8.56

Minimum Curvature Method

MEASURED DEPTH FT	INTERVAL FT	VERTICAL DEPTH FT	TARGET SECTION FT	STATION INCLN. DEG	AZIMUTH DEG	LATITUDE N/-S FT	DEPARTURE E/-W FT	DISPLA- CEMENT FT	at DEG	AZIMUTH DEG	DLS D/HF
11627.0	12.50	11530.24	127.92	83.95	3.8	140.61	-12.62	141.18	354.87		9.89
11660.0	33.00	11532.79	159.54	87.19	4.0	173.43	-10.38	173.74	356.58		9.84
11670.0	10.00	11533.17	169.16	88.40	4.2	183.40	-9.66	183.65	356.98		12.26
11692.0	22.00	11533.38	190.32	90.52	4.0	205.34	-8.09	205.50	357.74		9.68
11723.0	31.00	11533.19	220.14	90.17	4.0	236.26	-5.93	236.34	358.56		1.13
11751.2	28.20	11533.11	247.26	90.17	4.0	264.40	-3.96	264.43	359.14		0.00
11784.0	32.80	11533.19	278.81	89.54	4.1	297.11	-1.65	297.12	359.68		1.94
11815.0	31.00	11533.03	308.65	91.06	4.2	328.03	0.60	328.03	0.10		4.91
11846.0	31.00	11532.34	338.45	91.50	3.8	358.95	2.76	358.96	0.44		1.92
11877.0	31.00	11531.26	368.17	92.50	3.2	389.87	4.65	389.90	0.68		3.76
11908.0	31.00	11529.92	397.90	92.46	4.0	420.78	6.60	420.83	0.90		2.58
11940.0	32.00	11528.67	428.82	92.00	6.3	452.62	9.47	452.72	1.20		7.32
11972.0	32.00	11527.67	460.06	91.58	8.8	484.33	13.67	484.52	1.62		7.92
12002.0	30.00	11526.86	489.61	91.52	11.5	513.85	18.95	514.20	2.11		9.00
12033.0	31.00	11526.34	520.29	90.40	11.9	544.20	25.24	544.78	2.66		3.84
12065.0	32.00	11526.06	551.95	90.60	11.2	575.55	31.64	576.42	3.15		2.27
12096.0	31.00	11525.93	582.60	89.89	11.4	605.95	37.72	607.12	3.56		2.38
12127.0	31.00	11526.39	613.25	88.40	11.3	636.34	43.82	637.84	3.94		4.82
12156.6	29.60	11527.39	642.48	87.71	10.8	665.37	49.49	667.21	4.25		2.88
12190.0	33.40	11528.93	675.43	87.02	10.9	698.14	55.77	700.36	4.57		2.09
12221.0	31.00	11530.61	706.01	86.76	10.9	728.53	61.62	731.14	4.83		0.84
12253.0	32.00	11532.86	737.52	85.17	10.5	759.90	67.55	762.89	5.08		5.12
12284.0	31.00	11535.47	767.99	85.17	10.5	790.27	73.18	793.65	5.29		0.00