

Directional Survey Report

Well ID: 819472

Well Bore: Original Well Bore

Chesapeake Operating

Well Name: Smith Federal #1

Plane of Vertical Section: 0.0 degrees

30-025-36411

Survey Type	Meas. Depth	Inc.	Azimuth	TVD	Coordinates		Closure	Vertical Section	Dog Leg Severity
					N-S	E-W			
** Tieln	0.0	0.00	0.0	0.0					
INC	516.0	0.00	0.0	516.0			0.0	0.0	0.000
INC	1016.0	0.75	0.0	1016.0	N 3.3		3.3	3.3	0.150
INC	1405.0	0.75	0.0	1405.0	N 8.4		8.4	8.4	0.000
INC	1534.0	0.75	0.0	1533.9	N 10.1		10.1	10.1	0.000
INC	2016.0	0.50	0.0	2015.9	N 15.3		15.3	15.3	0.052
INC	2506.0	0.50	0.0	2505.9	N 19.6		19.6	19.6	0.000
INC	3012.0	1.25	0.0	3011.8	N 27.3		27.3	27.3	0.148
INC	3500.0	1.00	0.0	3499.7	N 36.9		36.9	36.9	0.051

Calculations using Minimum Curvature Method

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