



Anglian Oil Company Ltd.
Northern Lights, AA Pad, AA16, Slot 09, Run #4

Job No. AB-CD-12345678
Survey Date: 23 September 2017

True North Directional Services Inc.
Anticollision Report

19 November 2025

Minimum Distance Proximity Scan (Highside Reference)

Scan Range: 0.00ft to 5,371.72ft Measured Depth
Scan Radius is 300.00ft. Clearance Factor cutoff is Unlimited.



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Comparison Survey: AA Pad, AA06, As Drilled Surveys
Combined Surface Error between AA16 and AA06 is 5.75ft

Uncertainty Data for Reference Survey					Uncertainty Data for Comparison Survey					Separation (Ref. > Comp.)			
Measured Depth (ft)	Vertical Depth (ft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (ft)	Vertical Depth (ft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (ft)	Between Ellipsoids (ft)	Relative HighSide Bearing	Clrnc. Factor
		Northings (ft)	Eastings (ft)				Northings (ft)	Eastings (ft)					
0.00	0.00	0.00 N	0.00 E	0.83	0.00	0.00	29.73 N	13.87 W	4.92	32.81	27.05	-25.00	5.70
100.00	100.00	0.19 S	0.12 E	1.07	99.99	99.99	29.82 N	13.73 W	5.15	33.04	26.86	-147.04	5.34
200.00	200.00	0.26 S	0.33 E	1.26	200.00	199.99	30.05 N	13.31 W	5.44	33.23	26.56	-100.02	4.98
300.00	300.00	0.32 S	0.30 E	1.43	299.85	299.84	30.42 N	12.68 W	5.79	33.36	26.17	106.09	4.64
400.00	400.00	0.39 S	0.10 E	1.69	399.89	399.88	31.36 N	11.98 W	6.10	33.97	26.19	159.94	4.37
500.00	500.00	0.48 S	0.08 E	1.80	500.12	500.11	31.83 N	11.19 W	6.41	34.22	26.02	152.51	4.17
600.00	600.00	0.61 S	0.16 E	1.94	600.29	600.26	31.68 N	9.27 W	6.76	33.64	24.96	-164.11	3.87
700.00	700.00	0.75 S	0.06 E	2.05	700.30	700.23	31.58 N	6.67 W	7.09	33.02	23.90	113.14	3.62
800.00	799.99	0.91 S	0.39 E	2.30	801.40	801.26	30.51 N	3.22 W	7.57	31.65	21.91	-100.40	3.25
900.00	899.68	3.02 S	7.20 E	3.65	904.22	903.18	22.47 N	6.88 E	9.23	25.74	14.70	-107.07	2.33
981.26	979.53	7.65 S	21.34 E	5.35	986.87	982.81	7.35 N	22.76 E	11.54	15.42	2.81	-109.75	1.22
1,000.00	997.62	9.78 S	25.72 E	6.30	1,005.69	1,000.49	2.88 N	27.42 E	12.38	13.09	0.14	-113.48	1.01
1,096.87	1,088.21	29.06 S	53.73 E	8.65	1,102.63	1,088.47	24.80 S	56.98 E	14.14	5.84	50%	-92.16	0.50
1,100.00	1,091.03	30.30 S	54.53 E	8.72	1,105.79	1,091.24	25.83 S	58.10 E	14.20	5.73	55%	-90.99	0.45
1,200.00	1,177.52	63.35 S	92.01 E	10.95	1,205.08	1,174.27	60.96 S	99.49 E	16.10	8.50	32%	-53.79	0.68
1,300.00	1,255.59	105.80 S	137.68 E	12.82	1,303.46	1,248.50	100.59 S	150.30 E	17.70	15.38	2%	-54.20	0.98
1,400.00	1,324.28	155.46 S	190.60 E	14.40	1,401.27	1,312.71	143.47 S	210.23 E	19.20	25.75	3.37	-59.75	1.15
1,500.00	1,381.52	210.64 S	251.09 E	15.85	1,498.89	1,367.21	190.72 S	275.95 E	20.28	34.92	6.65	-64.96	1.24
1,600.00	1,426.54	271.09 S	316.67 E	17.72	1,595.43	1,410.88	240.07 S	346.34 E	23.16	45.69	9.21	-71.01	1.25
1,700.00	1,458.38	335.45 S	386.14 E	22.13	1,692.57	1,441.66	293.29 S	421.46 E	27.57	57.48	12.39	-74.21	1.27
1,800.00	1,476.73	401.84 S	458.52 E	26.79	1,790.20	1,465.68	347.06 S	499.32 E	32.21	69.19	12.31	-81.61	1.22
1,900.00	1,489.74	468.85 S	531.60 E	31.53	1,889.23	1,490.21	401.43 S	578.37 E	36.96	82.06	13.95	-91.33	1.20
2,000.00	1,502.05	535.14 S	605.44 E	36.33	1,989.82	1,512.44	457.85 S	658.61 E	41.86	94.39	18.53	-97.15	1.24
2,100.00	1,514.64	600.78 S	679.82 E	41.16	2,082.90	1,528.57	510.23 S	733.82 E	46.47	106.34	23.47	-98.99	1.28
2,200.00	1,527.19	666.17 S	754.43 E	46.02	2,167.28	1,541.28	550.28 S	806.94 E	50.81	128.01	39.11	-98.62	1.44

Minimum Distance Proximity Scan (Highside Reference)
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Comparison Survey: AA Pad, AA06, As Drilled Surveys
Combined Surface Error between AA16 and AA06 is 5.75ft

Uncertainty Data for Reference Survey					Uncertainty Data for Comparison Survey					Separation (Ref. > Comp.)			
Measured Depth (ft)	Vertical Depth (ft)	Ellipse Centre		Ellipse Major Axis/2	Measured Depth (ft)	Vertical Depth (ft)	Ellipse Centre		Ellipse Major Axis/2	Between Centres (ft)	Between Ellipsoids (ft)	Relative HighSide Bearing	Clrnc. Factor
		Northings (ft)	Eastings (ft)				Northings (ft)	Eastings (ft)					
2,300.00	1,539.58	725.88 S	833.59 E	51.03	2,249.90	1,552.09	581.34 S	882.69 E	55.08	153.16	59.31	-96.54	1.63
2,400.00	1,551.23	773.87 S	920.44 E	56.16	2,327.54	1,561.79	602.47 S	956.73 E	59.07	175.52	80.27	-94.83	1.84
2,500.00	1,560.94	809.48 S	1,013.32 E	61.23	2,409.98	1,571.32	616.29 S	1,037.41 E	63.14	194.96	96.99	-93.94	1.99
2,508.28	1,561.63	811.83 S	1,021.22 E	61.65	2,416.64	1,572.00	617.12 S	1,043.98 E	63.47	196.31	98.51	-93.83	2.01
2,600.00	1,570.70	833.03 S	1,109.95 E	63.65	2,485.07	1,578.99	622.09 S	1,111.84 E	66.74	211.11	116.81	-93.22	2.24
2,700.00	1,579.66	844.77 S	1,208.77 E	65.16	2,554.87	1,585.79	618.08 S	1,181.13 E	69.89	228.45	140.73	-92.34	2.60
2,800.00	1,586.42	841.85 S	1,308.43 E	66.83	2,639.03	1,595.30	605.39 S	1,263.77 E	73.24	240.80	151.28	-92.42	2.69
2,900.00	1,591.26	825.00 S	1,406.77 E	68.52	2,708.38	1,599.28	588.50 S	1,330.86 E	75.71	248.52	167.15	-91.99	3.05
3,000.00	1,593.88	792.96 S	1,501.34 E	70.10	2,770.67	1,600.44	565.44 S	1,388.65 E	77.95	253.99	181.28	-91.52	3.49
3,100.00	1,594.77	750.90 S	1,592.06 E	71.41	2,879.22	1,601.30	518.56 S	1,486.52 E	81.16	255.27	171.96	-91.47	3.06
3,200.00	1,595.11	709.02 S	1,682.86 E	72.83	2,978.61	1,601.24	477.09 S	1,576.84 E	84.28	255.09	163.81	-91.37	2.79
3,300.00	1,595.01	667.06 S	1,773.63 E	74.40	3,075.91	1,601.07	436.21 S	1,665.14 E	87.48	255.14	156.96	-91.36	2.60
3,400.00	1,594.70	624.56 S	1,864.14 E	76.20	3,179.88	1,601.15	391.99 S	1,759.22 E	90.98	255.23	147.80	-91.45	2.38
3,500.00	1,594.55	582.05 S	1,954.65 E	78.19	3,273.94	1,601.09	352.37 S	1,844.53 E	94.29	254.80	141.80	-91.48	2.25
3,600.00	1,594.39	540.44 S	2,045.58 E	80.42	3,374.49	1,601.04	309.68 S	1,935.57 E	97.88	255.73	134.29	-91.49	2.11
3,700.00	1,594.96	498.59 S	2,136.40 E	82.92	3,478.99	1,600.81	265.74 S	2,030.37 E	101.74	255.91	124.81	-91.30	1.95
3,800.00	1,595.44	455.37 S	2,226.58 E	85.58	3,579.29	1,601.12	223.79 S	2,121.48 E	105.55	254.37	115.20	-91.27	1.83
3,900.00	1,595.75	412.37 S	2,316.86 E	88.44	3,674.80	1,601.11	183.82 S	2,208.22 E	109.25	253.11	108.51	-91.21	1.75
3,926.69	1,595.73	401.14 S	2,341.06 E	89.24	3,702.83	1,601.12	171.85 S	2,233.57 E	110.33	253.29	106.12	-91.22	1.72
4,000.00	1,595.66	369.61 S	2,407.25 E	90.28	3,774.37	1,600.65	141.43 S	2,298.31 E	113.12	252.91	103.76	-91.13	1.70
4,100.00	1,595.94	326.79 S	2,497.61 E	90.68	3,873.33	1,600.68	99.38 S	2,387.89 E	117.03	252.54	99.59	-91.08	1.65
4,200.00	1,596.10	284.67 S	2,588.31 E	91.13	3,978.52	1,601.31	54.86 S	2,483.18 E	121.25	252.77	92.79	-91.18	1.58
4,300.00	1,596.20	242.91 S	2,679.17 E	91.63	4,076.39	1,601.48	13.27 S	2,571.77 E	125.23	253.57	90.65	-91.19	1.56
4,400.00	1,596.04	200.12 S	2,769.55 E	92.18	4,175.87	1,601.61	28.17 N	2,662.21 E	129.33	252.33	85.45	-91.26	1.51
4,500.00	1,596.28	158.22 S	2,860.34 E	92.73	4,274.95	1,601.90	69.97 N	2,752.04 E	133.44	252.65	82.24	-91.28	1.48

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Measured Depth (ft)	Uncertainty Vertical Depth (ft)	Data for Reference Survey			Measured Depth (ft)	Uncertainty Vertical Depth (ft)	Data for Comparison Survey			Separation (Ref. > Comp.)			
		Ellipse Centre		Ellipse Major Axis/2			Ellipse Centre		Ellipse Major Axis/2	Between Centres (ft)	Between Ellipsoids (ft)	Relative HighSide Bearing	Clrnc. Factor
		Northings (ft)	Eastings (ft)				Northings (ft)	Eastings (ft)					
4,600.00	1,596.97	116.06 S	2,951.02 E	93.36	4,375.66	1,601.83	112.42 N	2,843.36 E	137.65	252.62	77.64	-91.10	1.44
4,700.00	1,597.07	73.70 S	3,041.60 E	94.01	4,477.62	1,601.56	155.81 N	2,935.63 E	141.92	252.83	72.10	-91.02	1.40
4,800.00	1,597.04	32.37 S	3,132.65 E	94.69	4,576.90	1,601.88	197.72 N	3,025.63 E	146.13	253.81	69.26	-91.09	1.38
4,900.00	1,597.43	10.26 N	3,223.11 E	95.44	4,673.79	1,601.66	238.63 N	3,113.45 E	150.26	253.36	66.94	-90.96	1.36
5,000.00	1,597.69	53.59 N	3,313.23 E	96.22	4,778.43	1,601.65	283.25 N	3,208.09 E	154.72	252.62	58.81	-90.90	1.30
5,100.00	1,597.81	96.59 N	3,403.51 E	97.03	4,878.84	1,601.69	325.75 N	3,299.07 E	159.05	251.87	54.01	-90.89	1.27
5,200.00	1,597.89	140.46 N	3,493.37 E	97.87	4,973.82	1,601.17	365.72 N	3,385.23 E	163.15	249.90	51.80	-90.75	1.26
5,300.00	1,597.76	183.47 N	3,583.65 E	98.75	5,076.41	1,601.13	409.82 N	3,477.85 E	167.58	249.88	46.07	-90.77	1.23
5,371.72	1,597.69	214.70 N	3,648.20 E	99.43	5,145.40	1,601.17	439.05 N	3,540.34 E	170.57	248.96	44.91	-90.80	1.22

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Ellipse error terms are uncorrelated across survey tool tie-on points.
Ellipse separations were reported only if both profiles contained survey tool information.
Calculated ellipses incorporate surface errors as described at the top of each page.
Distance between Ellipsoids is the actual separation distance between ellipsoids.
Distance Between Centres is the straight line distance between ellipsoid centres.
Probability is set at 2 sigma.
Clearance Factor = Distance Between Profiles / (Distance Between Profiles - Ellipse Separation)

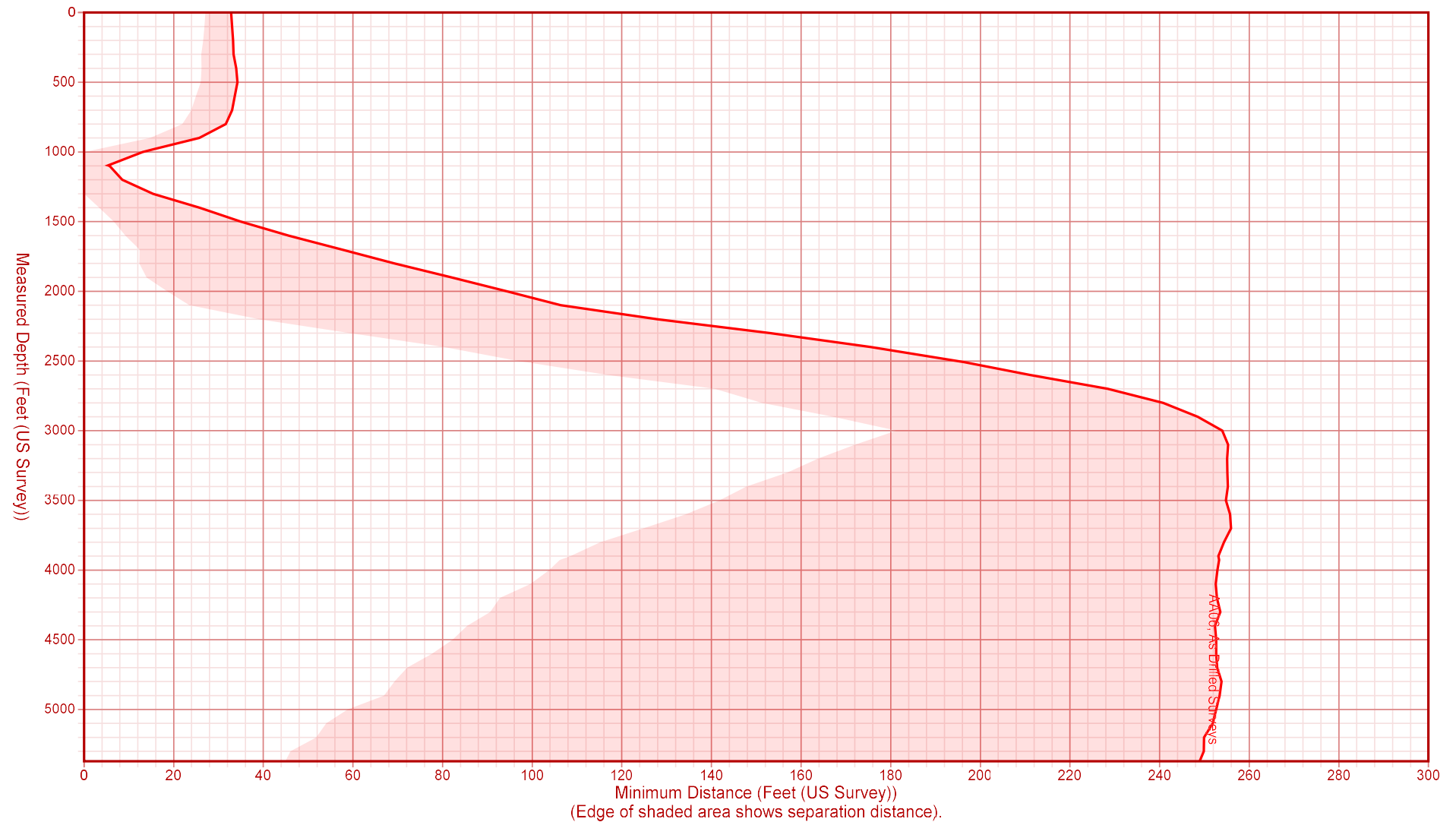
All station coordinates were calculated using the Minimum Curvature method.
All data is in feet (us survey) unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to RKB. Northings and Eastings are relative to Well AA16.

Coordinate system is Universal Transverse Mercator, Zone 12 North.
Central meridian is -111.00°. Grid convergence at surface is 1.18°.

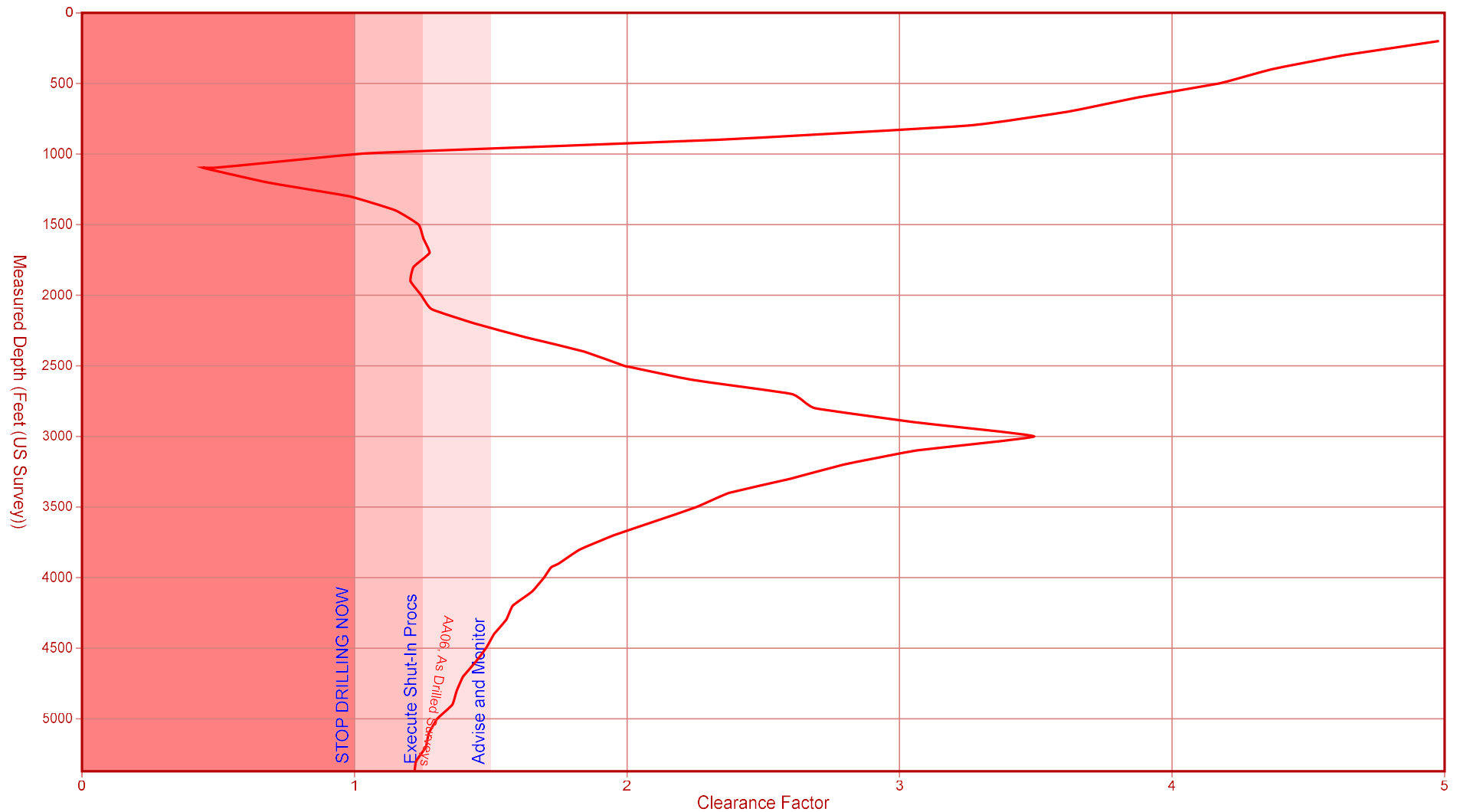
Profile Sections

Survey: Run #1 from 0.00ft to 981.26ft
Survey: Run #2 from 981.26ft to 2,508.28ft
Survey: Run #3 from 2,508.28ft to 3,926.69ft
Survey: Run #4 from 3,926.69ft to 5,371.72ft

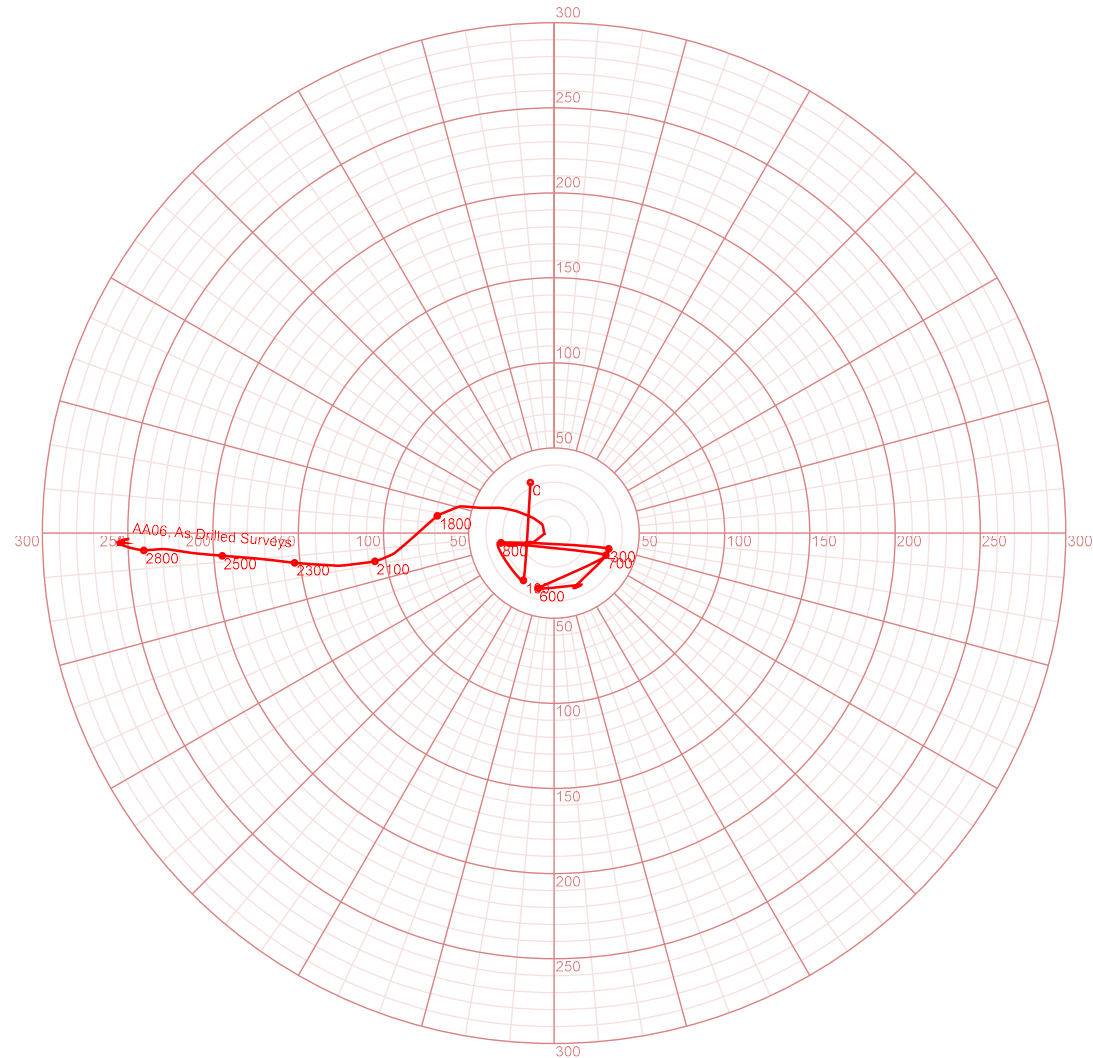
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Survey Tool Program for AA16, Run #4

From Measured Depth (ft)	Vertical Depth (ft)	To Measured Depth (ft)	Vertical Depth (ft)	Survey Tool Description
0.00	0.00	981.26	979.53	OWSG Gyrocompass Gyro (GYRO-NS)
981.26	979.53	2,508.28	1,561.63	MWD
2,508.28	1,561.63	3,926.69	1,595.73	MWD
3,926.69	1,595.73	5,371.72	1,597.69	MWD+IFR1+FDIR

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