



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

**Job No. AB-CD-12345678  
Survey Date: 11 January 2013**

## **True North Directional Services Inc. Anticollision Report**

**17 August 2015**

Minimum Distance Proximity Scan (Highside Reference)

Scan Range: 0.00m to 1,638.78m Measured Depth  
Scan Radius is 500.00m.



**True North**  
Directional Services Inc.

**Minimum Distance Proximity Scan (Highside Reference)**  
**Reference Survey: AA Pad, AA16, MWD Run #4 (and parent profiles)**  
**Scan Range: 0.00m to 1,638.78m Measured Depth**  
**Scan Radius is 500.00m.**

Comparison Structure, Well, Profile	Reference Well		Comparison Well				Proximity	
	Measured Depth (m)	Vertical Depth (m)	Measured Depth (m)	Vertical Depth (m)	Northings (m)	Eastings (m)	Relative Distance (m)	Relative HighSide Direction
AA01, Run #1	0.00	0.00	0.00	0.00	63.44 N	29.58 W	70.00	-25.000
AA02, Gyro Survey Data	0.00	0.00	0.00	0.00	54.38 N	25.36 W	60.00	-25.000
AA02, MWD Run #1	240.00	240.00	240.04	240.02	56.73 N	25.86 W	62.61	-134.637
AA02, MWD Run #2	460.93	425.60	682.64	487.13	192.74 N	258.20 E	320.07	-102.998
AA02, MWD Run #3	1,638.64	492.33	1,406.82	488.30	498.37 N	914.68 E	475.44	-89.499
AA02, MWD Run #4	1,638.76	492.33	1,543.28	488.51	556.29 N	1,038.23 E	496.98	-89.419
AA03, As Drilled Surveys	0.00	0.00	0.00	0.00	55.60 N	70.06 W	89.44	-51.565
AA04, As Drilled Surveys	341.56	338.71	347.77	341.84	1.04 N	17.18 E	10.77	-132.265
AA05, As Drilled Surveys	389.06	378.61	421.54	405.84	4.72 S	11.87 E	42.49	178.933
AA06, As Drilled Surveys	323.52	322.11	324.76	321.68	4.05 S	13.60 E	1.94	-49.676
AA07, As Drilled Surveys	1,530.00	492.32	1,562.03	500.50	15.29 N	1,011.60 E	8.45	165.321
AA08, As Drilled Surveys	0.00	0.00	0.00	0.00	37.47 N	61.61 W	72.11	-58.690
AA09, As Drilled Surveys	0.00	0.00	0.00	0.00	72.50 N	33.81 W	80.00	-25.000
AA10, As Drilled Surveys	307.86	307.18	324.72	323.08	27.37 N	43.38 W	61.20	-169.917
AA10, Sidetrack Surveys	518.17	448.53	748.66	502.13	123.89 N	299.20 E	294.18	-100.923
AA11, As Drilled Surveys	555.00	455.92	582.04	466.26	125.22 S	136.65 E	11.37	156.551
AA12, As Drilled Surveys	0.00	0.00	0.00	0.00	46.54 N	65.84 W	80.62	-54.745
AA13, SAGD Producer	337.23	334.78	361.08	355.87	19.00 N	22.30 W	51.31	177.594
AA14, SAGD Injector	271.96	271.91	274.39	274.11	34.47 N	11.12 W	37.41	-125.272
AA15, As Drilled Surveys	313.11	312.23	319.24	317.14	21.77 N	2.53 E	26.11	-130.682
AA17, As Drilled Surveys	465.00	427.68	501.11	450.33	51.14 S	73.91 E	27.11	-164.003
AA18, As Drilled Surveys	240.00	240.00	240.16	240.14	43.31 N	21.92 W	48.81	-136.943

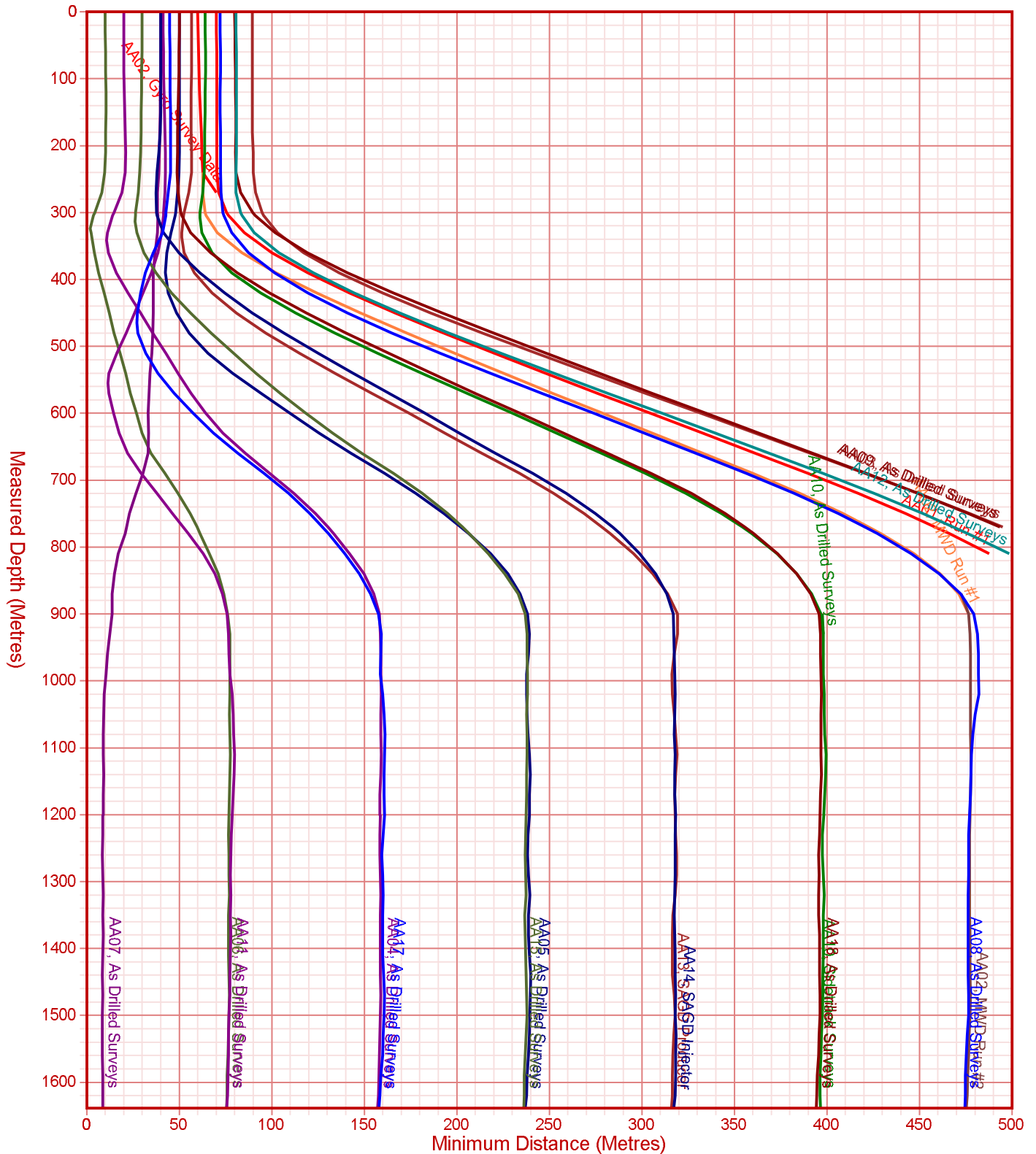
All station coordinates were calculated using the Minimum Curvature method.  
 All data is in metres unless otherwise stated. Directions and coordinates are relative to Grid North.  
 Vertical depths are relative to RKB. Northings and Eastings are relative to Well AA16.

Coordinate system is Universal Transverse Mercator, Zone 12 North.  
 Central meridian is -111.000°. Grid convergence at surface is 1.184°.

### Profile Sections

Survey: MWD Run #1 from 0.00m to 304.09m  
 Survey: MWD Run #2 from 304.09m to 770.02m  
 Survey: MWD Run #3 from 770.02m to 1,201.65m  
 Survey: MWD Run #4 from 1,201.65m to 1,638.78m

**Minimum Distance Proximity Scan (Highside Reference)**  
**Reference Survey: AA Pad, AA16, MWD Run #4 (and parent profiles)**  
**Scan Range: 0.00m to 1,638.78m Measured Depth**  
**Scan Radius is 500.00m.**





---

**Minimum Distance Proximity Scan (Highside Reference)**  
**Reference Survey: AA Pad, AA16, MWD Run #4 (and parent profiles)**  
**Scan Range: 0.00m to 1,638.78m Measured Depth**  
**Scan Radius is 500.00m.**

---

**Disclaimer Notice**

True North Directional Services Inc. makes no warranty of any kind with respect to the subject matter included herein or the completeness or accuracy of this document.

True North Directional Services Inc. are not responsible for any actions (or lack thereof) taken as a result of relying on or in any way using information contained in this document and in no event shall be liable for any damages resulting from reliance on or use of this information.