



**Anglian Oil Company Ltd.
Northern Lights
AA Pad
AA16**

**True North Directional Services Inc.
Well Report**



True North
Directional Services Inc.

Well Report for AA Pad, AA16

Project:	Northern Lights
Project is centred on	
Ref. Map Coordinates:	6,789,012.34 N, 567,890.12 E
Ref. Geographical Coordinates:	61° 13' 52.9473" N, 109° 44' 08.0097" W
Structure:	AA Pad
Structure is centred on	
Ref. Map Coordinates:	6,789,358.01 N, 572,458.01 E
Ref. Geographical Coordinates:	61° 14' 01.1642" N, 109° 39' 01.3541" W
Vertical Reference:	Ground Level
Horizontal Reference:	AA Pad
Structure Elevation:	628.01m above Mean Sea Level
Structure Axis:	65.000°
Ground Level:	628.01m
Grid Convergence:	1.183°
Central Meridian:	-111.000°
Coordinate System:	Universal Transverse Mercator, Zone 12 North
North Reference:	Grid
Units:	Metres
Well:	AA16
Slot:	Slot #09
Well Location	
Ref. Map Coordinates:	6,789,330.21 N, 572,493.04 E
Ref. Northern Lights Project	317.87 N, 4,602.92 E
Centre:	
Ref. AA Pad:	27.80 S, 27.80 W
Ref. Geographical Coordinates:	61° 14' 00.2426" N, 109° 38' 59.0443" W
Vertical Reference:	RKB
Horizontal Reference:	Well AA16
Well Elevation:	629.61m above Mean Sea Level 6.16m above Northern Lights Project Datum 1.60m above Ground Level

Profile Listing for AA16

Profile Key	Parent Key	Active	Profile Type	Profile Name	Depth Range (m)	Date Created	Date Updated
21		Yes	Survey	MWD Run #1	0.00m to 304.09m	19/12/2012	29/06/2015
22	21	Yes	Survey	MWD Run #2	304.09m to 770.02m	19/12/2012	29/06/2015
23	22	Yes	Survey	MWD Run #3	770.02m to 1,201.65m	11/01/2013	29/06/2015
41	23	Yes	Survey	MWD Run #4	1,201.65m to 1,638.78m	11/01/2013	29/06/2015
20		Yes	Plan	Design #1	0.00m to 1,794.29m	18/12/2012	29/06/2015

Target Listing for AA16

Target Key	Active	Shape	Target Name	Vert Depth (m)	Northings (m)	Eastings (m)	Date Created	Date Updated
39	Yes	Circle	AA16 LP (1)	453.14	124.98 S	140.08 E	19/12/2012	08/06/2015
40	Yes	Circle	AA16 LP (2)	486.60	239.97 S	464.98 E	19/12/2012	19/12/2012
4	Yes	Polygon	AA16 LP	486.60	214.62 S	519.36 E	28/11/2012	15/05/2013
2	Yes	Polygon	AA16 TD	486.60	123.48 N	1,244.41 E	28/11/2012	08/01/2013

All data is in metres unless otherwise stated.
 All coordinates are relative to Grid North unless otherwise stated.
 Elevations are relative to RKB. Coordinates are relative to Well AA16.
 Global Coordinates are relative to UTM-12N.