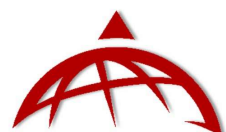




**Anglian Oil Company Ltd.
Northern Lights
AA Pad
AA16**

**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: 22,273,617.99 N, 1,863,152.84 E
 Ref. Geographical Coordinates: 61° 13' 52.9473" N, 109° 44' 08.0097" W

Site: **AA Pad**
 Site is centred on
 Ref. Map Coordinates: 22,274,752.07 N, 1,878,139.32 E
 Ref. Geographical Coordinates: 61° 14' 01.1642" N, 109° 39' 01.3541" W

Vertical Reference: Ground Level
 Horizontal Reference: AA Pad

Site Elevation: 2,060.40ft above Mean Sea Level
 Site Axis: 65.00°
 Ground Level: 2,060.40ft

Grid Convergence: 1.18°
 Central Meridian: -111.00°
 Coordinate System: Universal Transverse Mercator, Zone 12 North

North Reference: Grid
 Units: Feet (US Survey)

Well: **AA16**
 Slot: Slot 09
 Well Location
 Ref. Map Coordinates: 22,274,660.86 N, 1,878,254.25 E
 Ref. Northern Lights Project: 1,042.88 N, 15,101.42 E
 Centre:
 Ref. AA Pad: 91.21 S, 91.21 W
 Ref. Geographical Coordinates: 61° 14' 00.2426" N, 109° 38' 59.0443" W

Vertical Reference: RKB
 Horizontal Reference: Well AA16

Well Elevation: 2,065.65ft above Mean Sea Level
 20.21ft above Northern Lights Project Datum
 5.25ft above Ground Level

Profile Listing for AA16

Profile Key	Parent Key	Active	Profile Type	Profile Name	Survey Depth Range (ft)	Date Created	Date Updated
54		Yes	Survey	Run #1	0.00ft to 981.26ft	19/09/2017	17/11/2025
55	54	Yes	Survey	Run #2	981.26ft to 2,508.28ft	21/09/2017	17/11/2025
56	55	Yes	Survey	Run #3	2,508.28ft to 3,926.69ft	18/10/2017	17/11/2025
57	56	Yes	Survey	Run #4	3,926.69ft to 5,371.72ft	18/10/2017	19/11/2025
53		Yes	Plan	Design #1	0.00ft to 5,886.80ft	19/09/2017	23/05/2023

Drilling Run Breakdown for AA16

Profile Key	Parent Key	Profile Name	Start Date/Time	End Date/Time	Start Bit Depth (ft)	End Bit Depth (ft)
54		Run #1	2017/09/21 03:00	2017/09/22 01:07	0.00	1,033.76
55	54	Run #2	2017/09/22 01:07	2017/09/23 00:09	1,033.76	2,565.69
56	55	Run #3	2017/09/23 00:09	2017/09/25 03:17	2,565.69	3,977.54
57	56	Run #4	2017/09/25 03:17	2017/09/26 14:35	3,977.54	5,423.25

Well Report for AA Pad, AA16

Target Listing for AA16

Target Key	Active	Shape	Target Name	Vert Depth (ft)	Northings (ft)	Eastings (ft)	Date Created	Date Updated
32	Yes	Circle	AA16 LP (1)	1,486.68	410.05 S	459.58 E	19/09/2017	14/09/2022
33	Yes	Circle	AA16 LP (2)	1,596.45	787.33 S	1,525.53 E	19/09/2017	14/09/2022
31	Yes	Polygon	AA16 LP	1,596.45	704.13 S	1,703.93 E	19/09/2017	14/09/2022
34	Yes	Polygon	AA16 TD	1,596.45	405.12 N	4,082.70 E	19/09/2017	14/09/2022

All data is in feet (us survey) 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.