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|-------|-----------|
| SPUD: | 24-Feb-05 |
| RR:   | 25-Mar-05 |

ADW 2023

APACHE PARAMOUNT TURTON LAKE G-47 Final As-Built Diagram

See completion report for completion details

**apache**  
CANADA LTD.

**RIG: Nabors 62**

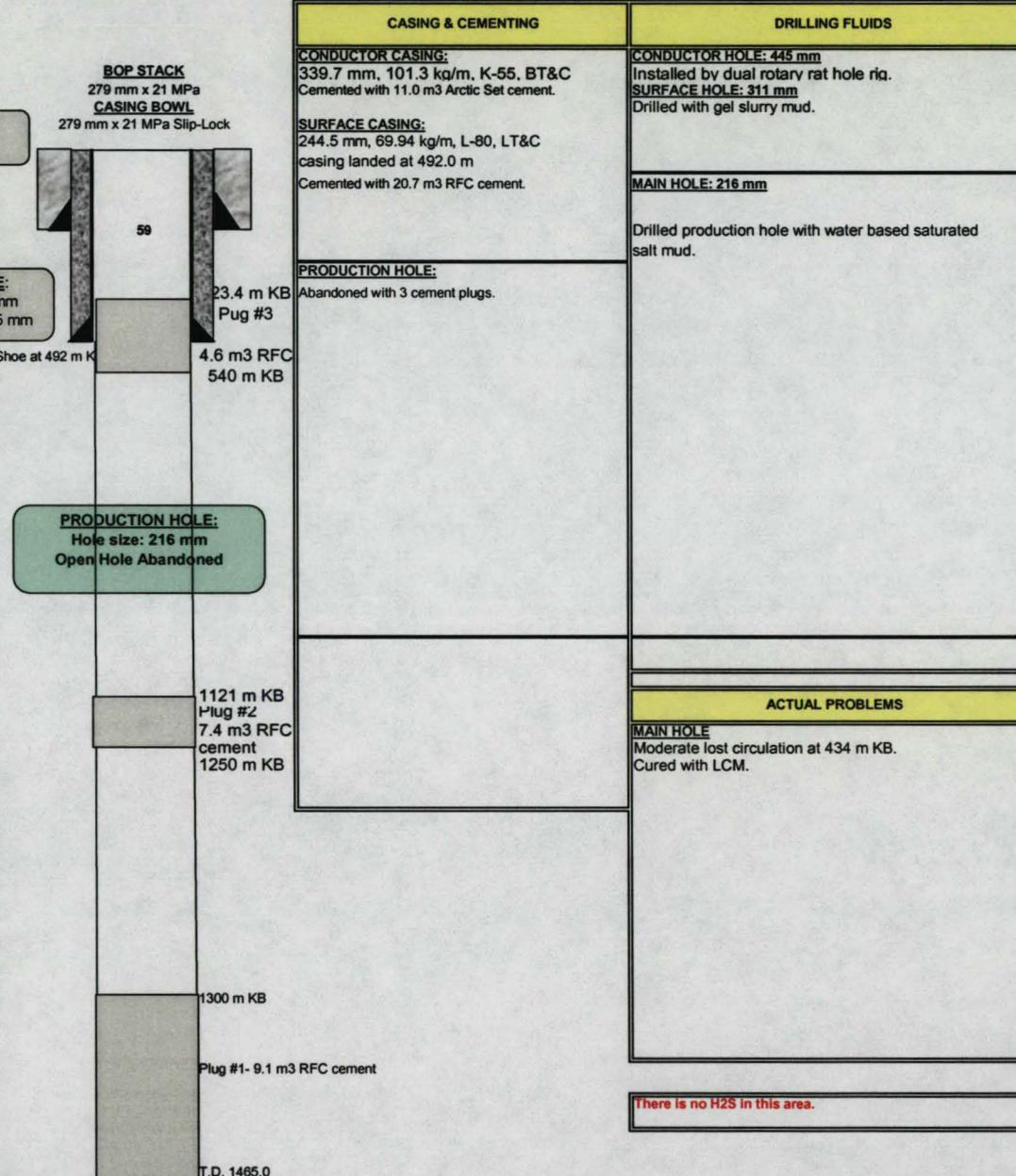
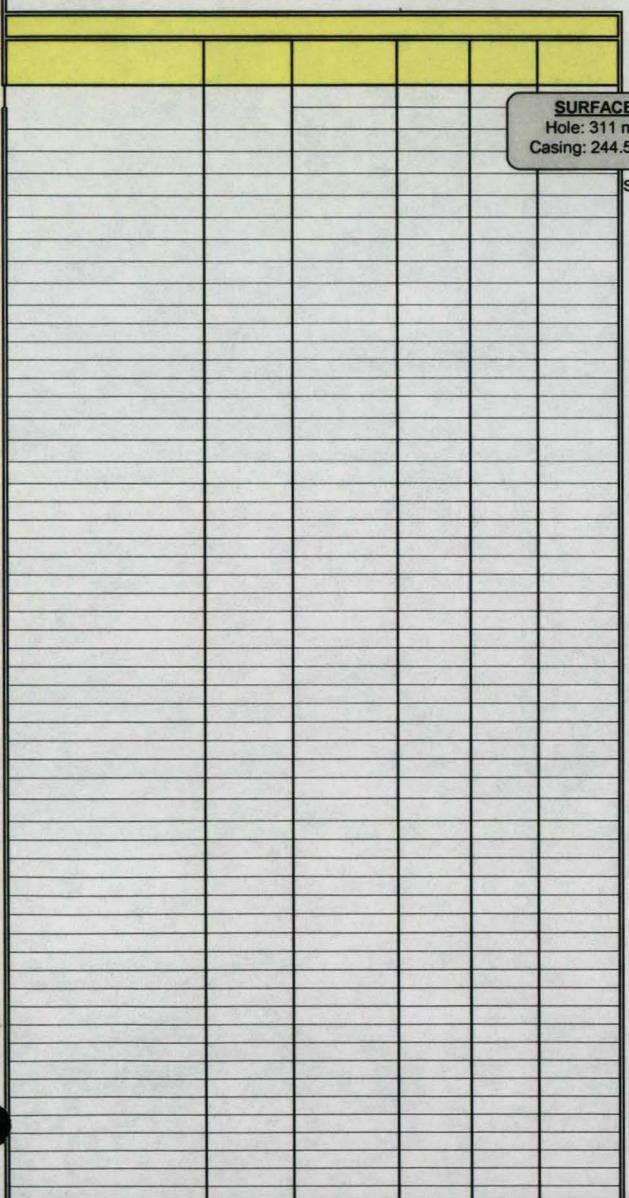
**GROUND ELEVATION:** 375.6 m  
**KB ELEVATION (est):** 379.6 m

## CO-ORDINATES

Surface: 65 deg 56' 24.892" N / 126 deg 38' 17.146" W NAD 27

Bottom Hole at TD: As above

SURFACE CASING 492 m



| DRILLING PROCEDURES  |  |
|----------------------|--|
| <b>Objective:</b>    | Secondary: Mt. Cap<br>Primary: Mt. Clarke  |
| <b>Drill String:</b> | 114.3 mm   |
| <b>Bits:</b>         | See attached bit proposals.<br>Surface: Roller Cone and PDC<br>Main: Roller Cone and PDC |
| <b>Logging:</b>      | Conventional wireline tools.   |
| <b>Coring:</b>       | None   |
| <b>DST's</b>         | None   |

Surface and production hole were drilled with MWD, motor and bent housing to ensure straight hole.

Spud 31-Jan-05  
RR 22-Feb-05

ADW 2019

**APACHE PARAMOUNT LAC MAUNOIR A-67 As Built Diagram (Prior to Completion)**  
See Final Completion Report for Completion and Abandonment Details

**apache**  
CANADA LTD.

RIG: Akita 51

GROUND ELEVATION: 593.1 m  
KB ELEVATION (est): 598.0 m

CO-ORDINATES:  
Surface: 67deg 16' 04.353" N / 125deg 11' 35.665" W

Bottom Hole at TD: As above

SURFACE CASING

411 m

**CONDUCTOR**  
Set by Rat Hole Rig

**BOP STACK**  
279 mm x 21 MPa  
**CASING BOWL**  
279 mm x 21 MPa Slip-Lock

**SURFACE:**  
Hole: 311 mm  
Casing: 244.5 mm

Loss Circ.  
Possible

Top of Production cement @  
Surface

**PRODUCTION:**  
Hole: 216 mm  
Casing: 177.8 mm

T.D. 1070 m KB

**CASING & CEMENTING**

**CONDUCTOR CASING:**  
339.7 mm, 101.3 kg/m, K-55, BT&C,  
cemented with 11.1 m3 Arctic Set cement.  
**SURFACE CASING:**  
244.5 mm, 59.53 kg/m, L-80, LT&C  
casing landed @ 411 m.  
Cemented with 36.0 m3 RFC cement.

**DRILLING FLUIDS**

**CONDUCTOR HOLE:** 449 mm  
Installed by dual rotary rat hole rig.  
**SURFACE HOLE:** 311 mm  
Drilled with gel slurry mud.

**MAIN HOLE: 216 mm**

Drilled production hole with oil based mud  
with Distillate 822 base oil.

**PRODUCTION CASING:**

**0 - T.D.:**  
177.8 mm, 43.16 kg/m, L-80, LT&C  
Cement Production:  
Cemented with 17.0 m3 RFC cement

**DRILLING PROCEDURES**

Objective: Secondary: Mt. Cap  
Primary: Mt. Clarke

Drill String: 114.3 mm

Bits: PDC and roller cones.

Logging: Conventional wireline tools.

Samples:  
Coring: None  
DST's: None

**DIRECTIONAL DETAILS**

Surface and production hole were drilled with motor and bent  
housing to ensure straight hole.

**ACTUAL PROBLEMS**

**MAIN HOLE**  
Severe sloughing for fractured dolomite.  
Required cementing of surface hole and drilling out.

There were not indicators of H2S in this well.

