



File: WID# 2021, 2022, 2023 & 2024
26 January 2005

Protected B

Mr. Greg Hladun
Senior Staff Drilling Engineer
Apache Canada Ltd.
1000, 700 - 9th Avenue SW
Calgary, AB T2P 3V4
Facsimile (403) 261-1349

Dear Mr. Hladun:

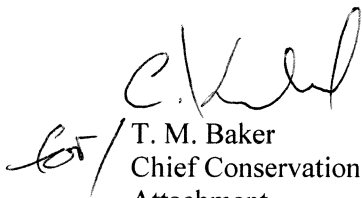
**Approval to Drill a Well (ADW) for:
Apache Paramount Lac Maunoir E-35, Apache Paramount Lac Maunoir L-80,
Apache Paramount Turton Lake G-47 & Apache Paramount Turton Lake L-23**

Please be advised that the subject applications for an "Approval to Drill a Well" are approved pursuant to section 83 of the *Canada Oil and Gas Drilling Regulations*. Attached are signed copies of an "Approval to Drill a Well" forms for E-35, L-80, G-47 and L-23, of which one copy is to be posted in a conspicuous place at the drill site as per the *Canada Oil and Gas Drilling Regulations*.

Any changes or deviation from the program will require the additional specific approval of the Chief Conservation Officer. Please be reminded that all oil and gas activities are, at minimum, to meet the requirements of the *Canada Oil and Gas Drilling Regulations*, the *Oil and Gas Occupational Safety and Health Regulations* and the *Canada Labour Code, Part II*. Conditions of approval are attached.

If you have any questions, please do not hesitate to contact Chris Knoechel at 299-3866.

Yours truly,



T. M. Baker
Chief Conservation Officer
Attachment

c.c. M. Fortier - DIAND

ATTACHMENT

Page 1 of 2

Approval to Drill a Well for:
Apache Paramount Lac Maunoir E-35
Apache Paramount Lac Maunoir L-80
Apache Paramount Turton Lake G-47
Apache Paramount Turton Lake L-23

1. The Approval to Drill a Well form is to be displayed at a prominent place on the drill site as per section 103 of the *Canada Oil and Gas Drilling Regulations*. Also, copies of the *Canada Oil and Gas Drilling Regulations* as well as the *Oil and Gas Occupational Safety and Health Regulations* are to be kept at the drill site and available on request by any person on the drill site (section 102 of the *Canada Oil and Gas Drilling Regulations* and paragraph 125.(1)(e) of the *Canada Labour Code, Part II*, respectively).
2. Drill Cuttings Sampling Requirements: (for the wells E-35, L-80, G-47 & L-23)
 - a. 5 metre intervals: **Two sets** of washed samples in 11mL vials. **One set** of unwashed samples, 500 grams (approximately the size of 2 fists) in moisture-proof bags. Plastic lined bags not allowed. Invert/oil muds must be removed. Sacks of samples must be labeled with the correct interval and number of bags (ie. 1 of 3 etc.). All samples must be fully dried or they will be returned for drying.
 - b. 10 metre intervals: **Not applicable.**
 - c. Canned samples: **Not applicable.**
 - d. All samples must be delivered to the Geological Survey in Calgary at 3303 33rd Street NW to the attention of the Head, Core and Sample Repository. A copy of the core and sample transmittal letter must be forwarded to the Chief Conservation Officer at the National Energy Board.

Other than geochemical jar samples intended for GSC analysis, NEB sample sets cannot be utilized for a company's private analysis as these sets form the public record. Your company should acquire additional sample set(s) at the time of drilling if private analysis is planned. Otherwise, you are referred to the NEB's *Studying and Sampling Well Materials from Frontier Wells* for authorizations.
3. Well suspension or abandonment operations are required to meet the requirements of the *Canada Oil and Gas Drilling Regulations*. Upon program termination a "Well Termination Record" is required to be submitted complete with a wellbore schematic.
4. Geological reports (including descriptions, strip logs and gas detection readings) and drilling reports are to be faxed daily by 8:30 am to the attention of the Chief Conservation Officer (fax number (403) 292-5876). Please contact Trena Barnes (phone number (403) 299-3192) should there be any difficulty in delivery of the daily drilling reports.
5. Please submit 2 paper copies of final log prints and all digital log files in LASII format on compact disc. Please ensure compact discs are maximized and submitted with the final well report.

ATTACHMENT

Page 2 of 2

Approval to Drill a Well for:
Apache Paramount Lac Maunoir E-35
Apache Paramount Lac Maunoir L-80
Apache Paramount Turton Lake G-47
Apache Paramount Turton Lake L-23

6. Additional information to be filed with the Chief Conservation Officer includes a description of drill chip samples, core, fluid samples and DST results. Analyses performed on any core and any pressure and temperature data must be submitted.
7. Please include a final well survey signed by a Canada Land Surveyor in the final well report.
8. Apache shall implement or cause to be implemented all of the policies, practices, mitigative measures, recommendations and procedures for the protection of the environment referred to in its application.
9. Apache shall within 30 days of the completion of the drilling program file with the Chief Conservation Officer a confirmation, by an officer of the company, that the approved Project was completed in compliance with all applicable conditions in each Approval to Drill a Well. If compliance with any of these conditions cannot be confirmed, the representative of the company shall file with the Chief Conservation Officer details as to why compliance cannot be confirmed
10. Apache shall meet the Guideline for Ambient Air Quality Standards in the Northwest Territories when conducting any flaring associated with the Lac Maunior or Turton Lake Drilling Program.



Exploratory☒

Development☐

Other☐

(N/A)

Delineation☐

Service☐

APPROVAL TO DRILL A WELL

This application is submitted under Section 82.(1) of the *Canada Oil and Gas Drilling Regulations* (SOR/79-82). When approved under Section 83 of the Regulations it is the requisite approval for the commencement of drilling operations.

Well Name:Apache Paramount

East Lac Maunoir L-80

Operator:Apache Canada Ltd.

Operating License No.:1075

Drilling Program No.:

Contractor:Akita Drilling

Interest Identifier:Exploration Licence 399

Drilling Rig or Unit:#51

Estimated Well Cost:\$5000000.00

Land Use Permit No.:S04A-010

Water Licence No.:S04L1-011

Location:Unit:LSection:80

Grid:67-20-124-45

Coordinates:Surface:Lat.:67°19'42.5"

Long.:124°59'49.0"

(NAD 27)Bottom Hole:Lat.:67°19'42.5"

Long.:124°59'49.0"

Region:Lac Maunoir

Field / Pool:N/A

Elevation KB/RT:313.2m

GL / Seafloor:308.2m

Approximate Spud Date:15/Mar/2005

Est. Days on Location:25

Anticipated Total Depth:945.8m

Target Formation:Mt. Clarke

EVALUATION PROGRAM

Interval (m KB)

Comments

Ten-metre samples:

-

Five-metre samples:

0.0 - 945.8

Canned sample intervals:

See terms and conditions

Conventional cores at:

-

Logs and Tests:

0.0 - 945.8

DSI-Sonic-GR-CAL AIT-GR-CAL LDT-TLD-PE-CNL-CAL-GR-OBMI

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)	Cementing (m³)
339.7	101.2	K-55	60.0	11.1
245.0	69.9	L-80	400.0	16.7
178.0	43.2	L-80	945.8	13.4
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B.O.P. Equipment:Shaeffer Spherical 279 mm, 21 MPa, 1 - Shaeffer LWS 279 mm, 21 MPa Double Gate Ram, 1 - Shaeffer LWS 279 mm, 21 MPa single gate ram. Valvcon 318 I, 21 mPa 5 station accumulator, electric remote. Cameron/WKM 51 mm x 76 mm, 21 MPa choke manifold.

Other Information:

Signed:

Greg Hladun, P.Eng

Responsible Officer

Title:Senior Staff Drilling Engineeer

Name:Greg Hladun

Operator:Apache Canada Ltd

Date:Jan 17/05

Phone:(403)303-1833

NEB USE ONLY

An approved copy of this notice is to be posted at each drillsite. This operation is authorized under Section 5.(1)(b) of the *Canada Oil and Gas Operations Act* (O-7) and is subject to the terms and conditions attached to this authorization.

Date:Jan. 24/05

Signed:

File:9211-A075-1-5

for Chief Conservation Officer

WID:2022

UWI:300L806720124450