

Exploratory
Development

X

National Energy
Board



Office national
de l'énergie

Delineation
Service

APPROVAL TO DRILL A WELL

This application is submitted under Section 82 of the Canada Oil and Gas Drilling Regulations. When approved under Section 83 of the Regulations, it is the requisite approval for the commencement of drilling operations.

Well Name: **NORTHROCK et al W. FALLSTONE F-01**

Operator: **NORTHROCK RESOURCES LTD.**

Drilling Program No.:

Contractor: **AKITA SAHTU DRILLING**

Interest identifier: **P**

Drilling Rig or Unit: **AKITA #51**

Estimated Well Cost: **\$2,000,000**

Location-Unit: **E-01-64-50-125-45** **F** Section: **01**

Grid Area: **64 50 125 45**

Coordinates: Lat.: **64.673677** **64° 40' 29.045"**

Long.: **-125.768661** **125° 46' 13.995"**

Area: **TULITA** **64° 40' 25.20"**

Field/Pool: **FALLSTONE** **64 50 125 45**

Elevation-KB/RT: **204.0 m** (ASL)

GL/Seafloor: **200.0 m**

Approx. Spud Date: **JANUARY 10, 2000**

Est. Days on Location: **20**

Anticipated Total Depth: **1400 m**

Target Horizons: **BASAL CRETACEOUS SANDSTONE**

EVALUATION PROGRAM

Ten-metre sample intervals

Five-metre sample intervals **FROM SURFACE CASING TO RADIOACTIVE SHALE - 3 m IN INTERVALS THEREAFTER**

Canned sample intervals **10 m INTERVALS**

Conventional cores at **NONE**

Logs and Tests **E-LOG, SONIC, NEUTRON - DENSITY FROM TD TO SURFACE CASING**

CASING AND CEMENTING PROGRAM

O.D. (mm)	Weight (kg/m)	Grade	Setting Depth (m KB)	Cementing Program (m³)
340 mm	71.43	J-55	30 m	2.9m³ ARTIC SET CEMENT
244.5 mm	53.6	J-55	350 m	23.3 m³ ARTICE SET CEMENT
177.8 mm	34.2	J-55	1400 m	29.4 m³ RFC

B.O.P. Equipment: **SHAFFER SPHERIAL 279 mm X 21 mPa ANNULAR PREVENTOR. 3 - SHAFFER LWS 279 mm X 21 mPa SINGLE GATERAM PREVENTORS. VALVCON 340 LITRE X 21 mPa. 5 STATION ACCUMULATOR, ELECTRIC REMOTE. CAMERON WKM 51 mm X 76 Mm x 21 mPa CHOKE MANIFOLD.**

Other Information:

Signed: **[Signature]** Title: **Responsible Officer**

Name: **MR. BRIAN MERCHANT** Company: **NORTHROCK RESOURCES LTD.**

Date: **OCTOBER 29, 1999.** Phone: **(403) 213-7450**

APPROVAL

An approved copy of this notice is to be posted at each wellsite.

Date: **Dec 23/99** Signed: **[Signature]**

File: **9211-N046-1-2** Chief Conservation Officer

WID: **1886**

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Amended as per new applications. VMB.