

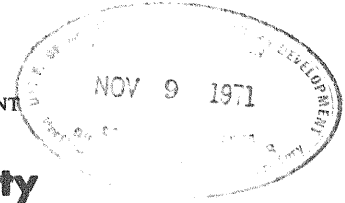


CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

**Application for a Drilling Authority**



This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:—

Name and number of well **Inexco Husky et al Porcupine YT G-31**

Location: Unit **G** Section **31** Grid **66-30-140-00**  
 Latitude **66°20'22"N** Longitude **140° 06'13" W**  
 Unique Well Identifier **300G316630140000**  
 Universal Well Location Reference **66.33944 N 140.10361**

Elevation: Ground **3025' est.** **K.B. 3039' est.** feet above sea-level.  
 Well is expected to produce from **Devonian Silurian Ordovician** formation at a depth of about **5000 - 9000** feet. Expected total final depth **9500**  
 Area assigned to well . . . . .  
 (for District Conservation Engineer's use only)

Permit No. **5995** Lease No. **-** Acreage **25,685**  
 Permittee, licensee, or lessee **Inexco Oil Company & Husky Oil Ltd.**  
 Exploratory Licence No. **1929** **1909**  
 Surface owned by Crown or **Crown**  
 (If alienated submit name and address of owner and occupant.)

Petroleum and natural gas rights owned by **Crown**  
 We propose to use the following strings of casing, either cementing or landing them as indicated below:—

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. <b>13 3/8"</b>	<b>54.5#</b>	<b>K-55</b>	<b>New</b>	<b>1000</b>	<b>950</b>
2. <b>9 5/8"</b>	<b>36# &amp; 40#</b>	<b>K-55 &amp; N-80</b>	<b>New</b>	<b>5000</b>	<b>2000</b>
3. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
4. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
5. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .

Expected water, gas, and oil horizons and type of control equipment **Devonian, Silurian and Ordovician**  
 to be controlled by drilling mud of adequate weight and blow out preventers described as follows: **1 - Shaffer Type "E" 12" series 900 double ram hydraulic unit; 1 - hydrill 12" k Series 900**

Well will be drilled with Rotary Rig No. **31** by **Commonwealth Drilling (Western) Limited**  
 (Drilling Contractor or company)

Responsible agent of applicant:— Contractor's Business Licence No. **0575**  
 At well **A.O. Garries** At registered office **K.N. Sobkovich**  
 Address **1000 Aquitaine Tower** Address **1000 Aquitaine Tower, 540-5th, Ave. S.W.**  
 It is understood that if changes become necessary, notice of the change of plan will be submitted.  
 Dated at **Calgary**, this **5th** day of **November**, 19 **71**  
 Signed by **K.N. Sobkovich** Company **Inexco Oil Company**  
 Title **Division Drilling & Prod'n Engineer** Operator's Licence No. **1929**

(For Oil and Mineral Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:

**Please see attached sheet for Conditions of Approval.**

Dated **November 15,** 19 **71** **K. N. Sobkovich**  
 District Conservation Engineer

Forms to be submitted to District Conservation Engineer,  
 Department of Indian Affairs and Northern Development.

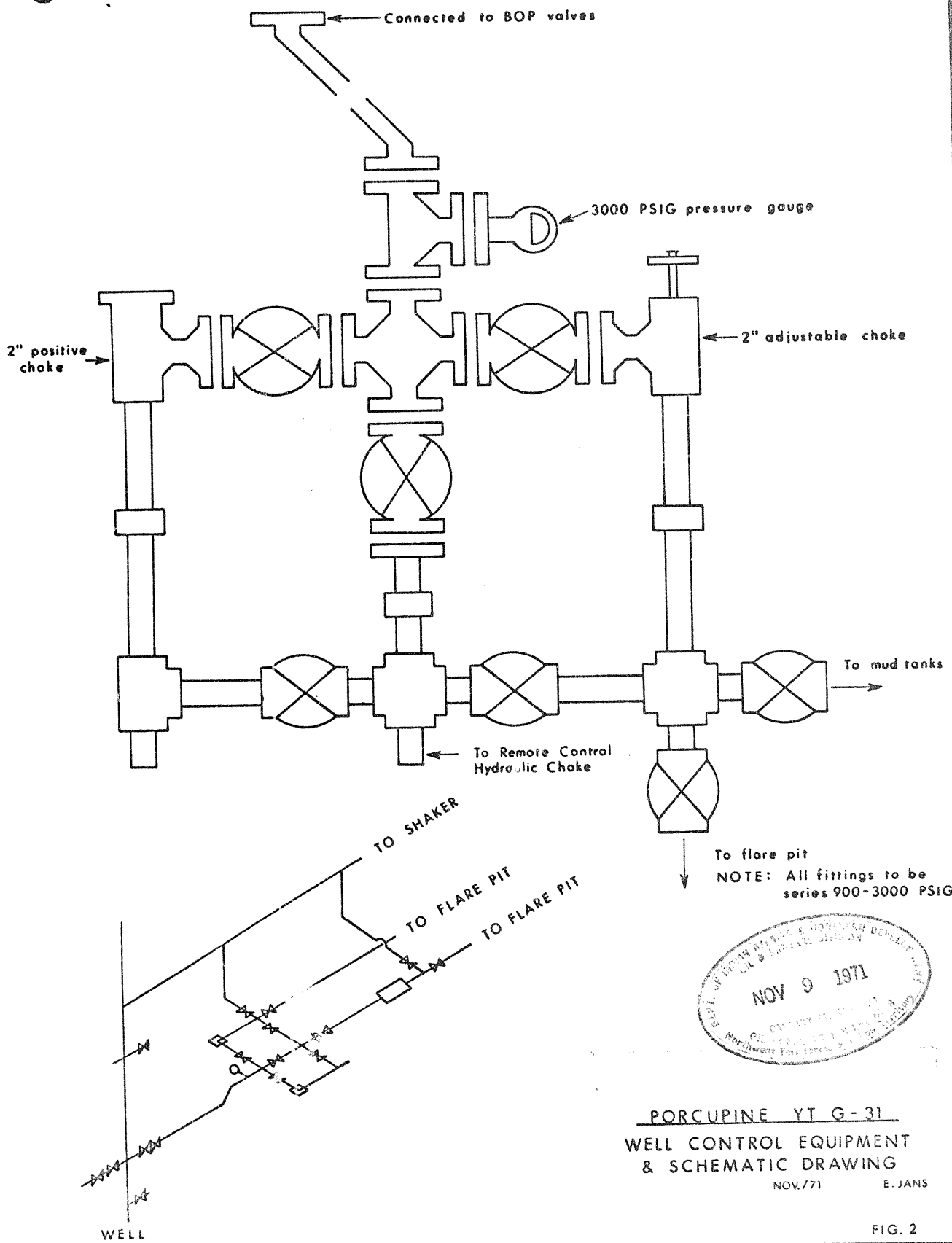
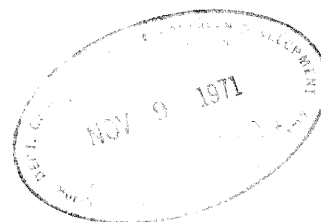


FIG. 2

GEOLOGICAL PROGNOSIS  
Inexo Husky et al Porcupine YT G-31

<u>FORMATION</u>	<u>DEPTH</u>	<u>SUBSEA ELEV.</u>
Devonian Mississirpian Shale	Surface	(+3025)
Middle Devonian Ogilvie	4500'	(-1475)
Silurian-Middle Ordovician	5600'	(-2575)
Lower Ordovician-Cambrian	6100'	(-3075)
Pre-Cambrian Tindir	9100'	(-6075)
T.D.	9500'	(-6475)

KNS/gjh  
Nov. 8/71



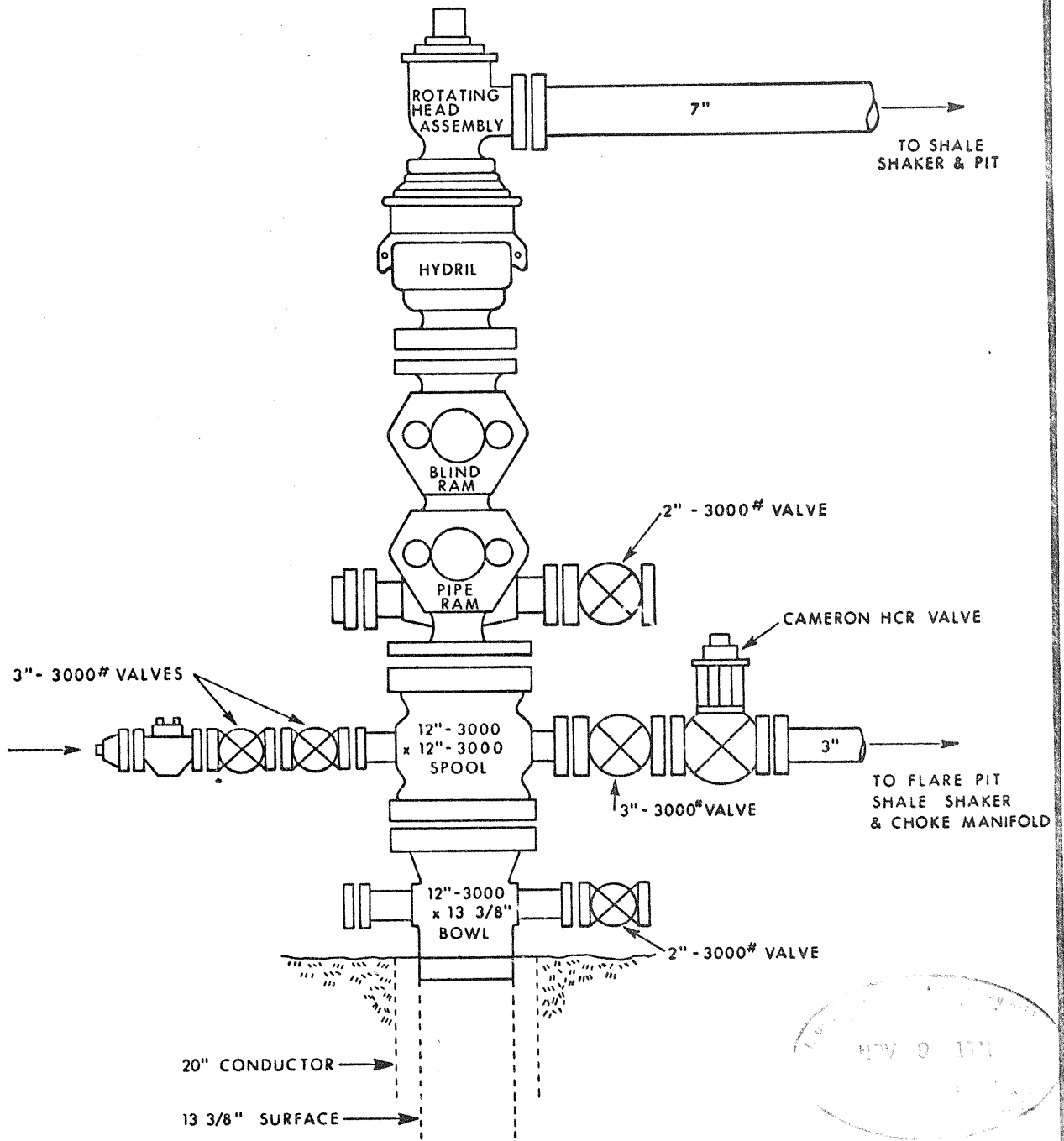
CONDITIONS OF APPROVAL FOR DRILLING AUTHORITY NO. 559  
FOR INEXCO HUSKY ET AL PORCUPINE YT G-31 issued Nov. 15/71

1. Copies of this Drilling Authority shall be exhibited at the Drilling Rig in both the Doghouse and the Drilling Foreman's Office between spud and rig release dates.
2. The Company will submit to this office, on Tuesday of each week/daily, the latest reports received by radio on the progress of the well.
3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Any additional strings of casing must be approved by the District Conservation Engineer prior to running.

*M. D. Thomas*

M. D. Thomas  
District Conservation Engineer  
Districts 2 & 3

/mj



NOV 9 1971  
 E. JANS

DRILLING CONTROL HOOKUP

INEXCO HUSKY et al  
 PORCUPINE YT G-31

NOV./71

E. JANS

FIG. 1