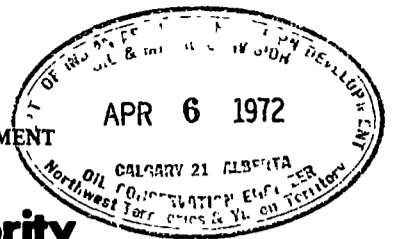




DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION



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 et al Mallard YT 0-18**

✓ Location Unit **Q** Section **18** Grid **65-50-140-15**
 Latitude **65° 47' 58" N** Longitude **140° 17' 41" W**
 Unique Well Identifier **3000186550140150**
 Universal Well Location Reference **65.79944 N** **140.28472 W**

Elevation Ground **3650 (est.)** **KB** **3665 (est.)** feet above sea-level
 Well is expected to produce from **Middle Devonian, Lower Ordovician - Cambrian** formation at a depth of about **4000-7000** feet Expected total final depth **Pre-Cambrian approx. 7000'**
 Area assigned to well

(for District Conservation Engineer's use only)

✓ Permit No **6000** Lease No **-** Acreage **52,644** ✓
 Permittee, licensee, or lessee **Inexco Oil Company & Husky Oil Ltd.**
 ✓ Exploratory Licence No **1539** **1975**
 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 13 3/8"	54.5	K-55	New	1000	950
2 9 5/8"	36# & 40#	K-55	New	5000	2000
3					
4					
5					

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

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

Responsible agent of applicant - **A. O. Garies** Contractor's Business Licence No **0575**
 At well **A. O. Garies** At registered office **J. A. Nelson**
 Address **1000 Aquitaine Tower** Address **1000 Aquitaine Twr, 540-5 Ave., S., Calg 2**
 It is understood that if changes become necessary, notice of the change of plan will be submitted
 Dated at **Calgary**, this **4** day of **April** 19 **72**
 Signed by **J. A. Nelson** Company **Inexco Oil Company**
 Title Manager, Can. Producing Div. Operator's Licence No **1539** ✓

(For Oil and Mineral Division use only)

APPROVED

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

PLEASE SEE ATTACHED LIST OF CONDITIONS OF APPROVAL.

Dated **APRIL 12, 19 72**

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

CONDITIONS OF APPROVAL FOR DRILLING AUTHORITY NO. 598
FOR INEXCO ET AL MALLARD YT 0-18 APPROVED APRIL 12, 1972

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
District Conservation Engineer
Districts 2 and 3

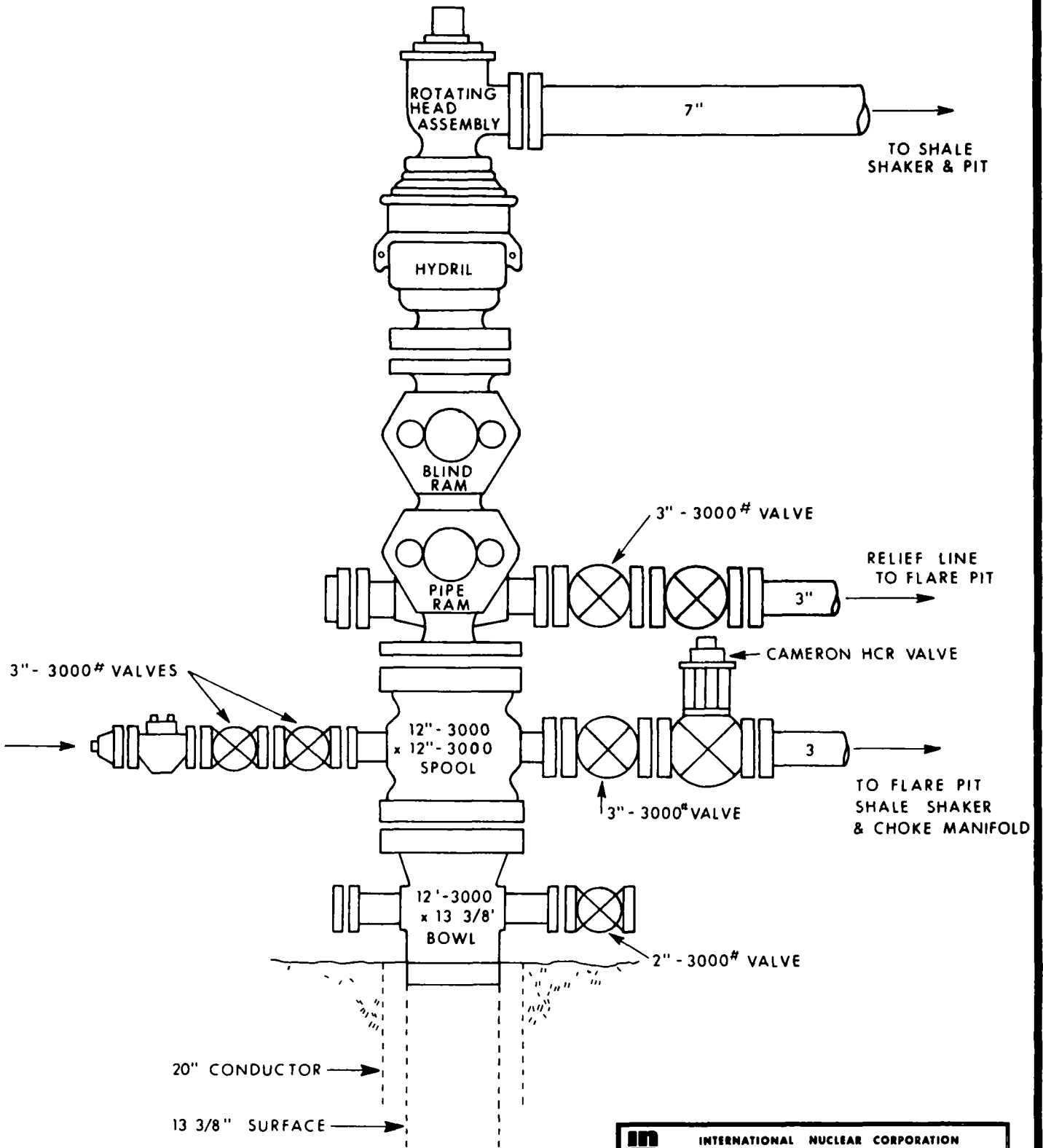
/mj

GEOLOGICAL PROGNOSIS

Inexco et al Mallard YT 0-18

<u>FORMATION</u>	<u>DEPTH</u>	<u>SUBSEA ELEVATION</u>
Upper Devonian - Mississippi Shale	Surface	(+ 3065)
Lower & Middle Devonian	2565'-3065'	(+ 500) - (0)
Lower Ordovician - Cambrian	3565'-4065'	(- 500) - (- 1000)
Pre-Cambrian Tindir	5665'-6165'	(- 2600) - (- 3100)
T.D.	approx. 7000'	(- 3935)

ART/HBL/km
April 4, 1972




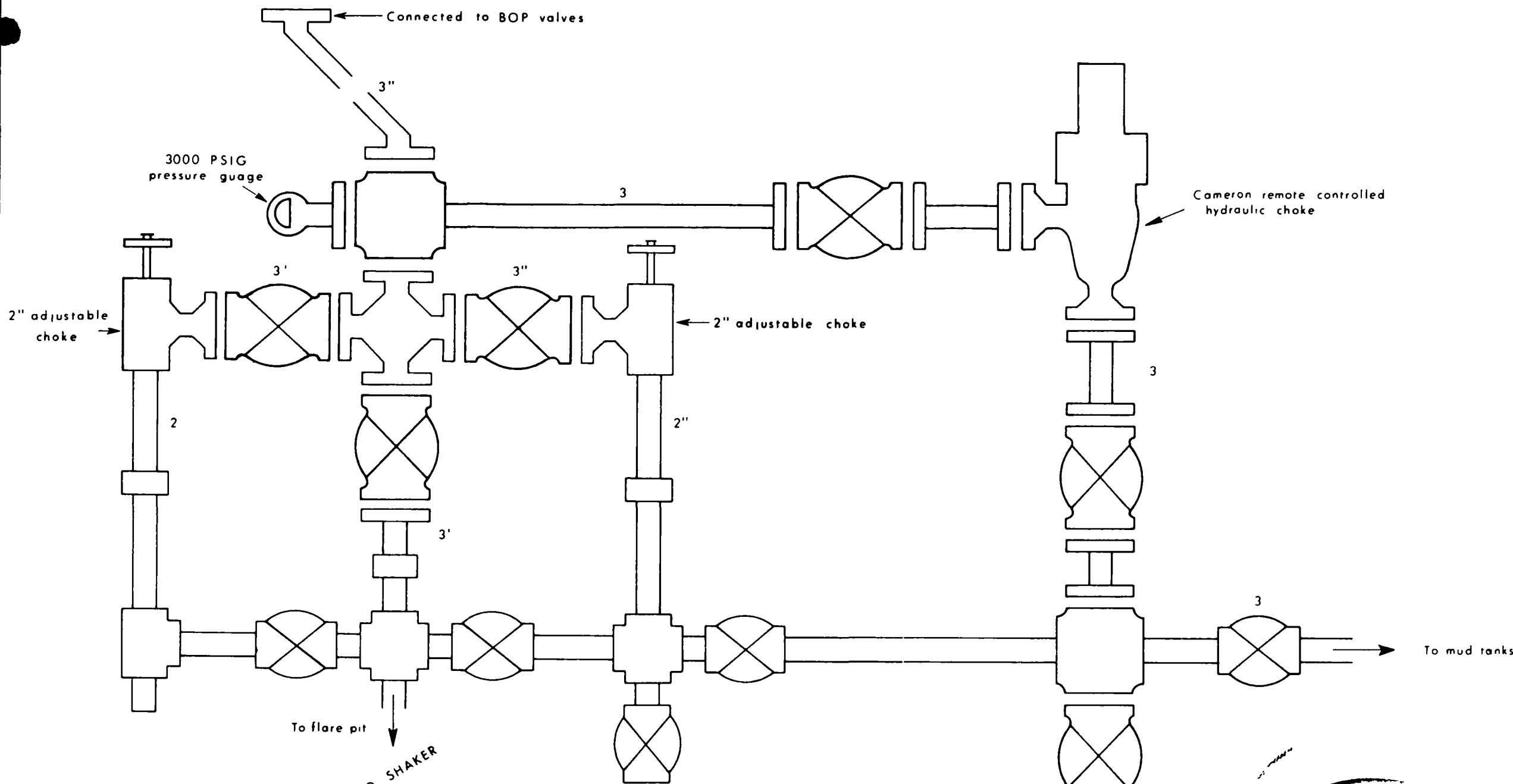
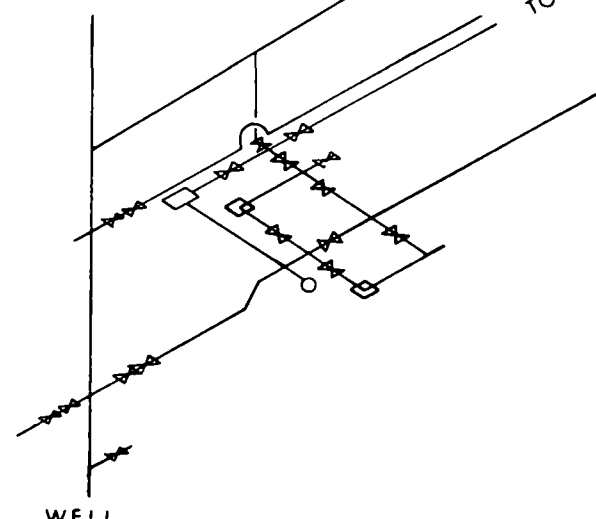
 INTERNATIONAL NUCLEAR CORPORATION CALGARY ALBERTA CANADA		
DRILLING CONTROL HOOKUP		
INEXCO ET AL MALLARD YT O-18		
DESIGNED BY	DATE APRIL 772	DRAWN BY
REVISED	DATE	SCALE
	SCALE	SHEET NO.
		SHEET

FIG 1



NOTE All fittings to be series 900-3000 PSIG

APR 6 1972



IN INTERNATIONAL NUCLEAR CORPORATION
CALGARY ALBERTA CANADA

INEXCO ET AL MALLARD YT O-18

WELL CONTROL EQUIPMENT & SCHEMATIC DRAWING

DESIGNED BY	DATE	DRAWN BY
REVIEWED	SCALE	DATE
	APRIL /72	