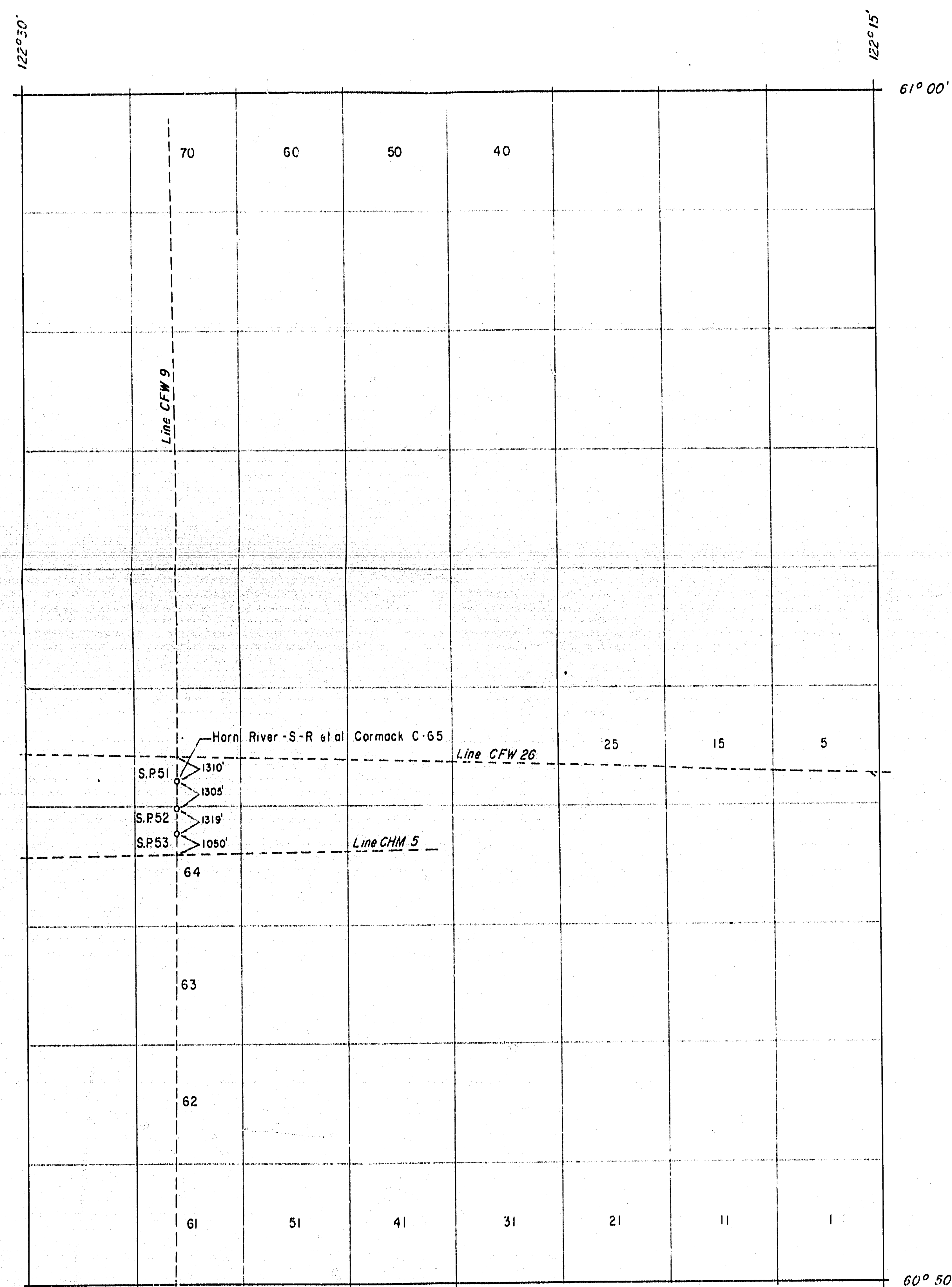




NOTE:
Relative to information supplied by client

HORN RIVER RESOURCES LTD.

PLAN

SHOWING SHOT POINT LOCATION OF

HORN RIVER-S-R et al CORMACK C-65

FORT LIARD AREA (N.T.S. 95-B-16)

NORTHWEST TERRITORIES

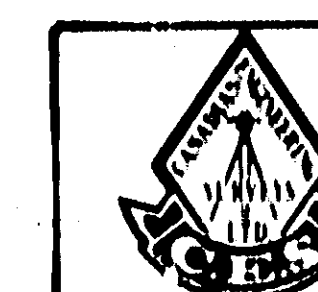
SCALE 1" = 1 Mile

GRID AREA 61° 00' , 122° 15'

Certified Correct
Dec. 30th, 1970

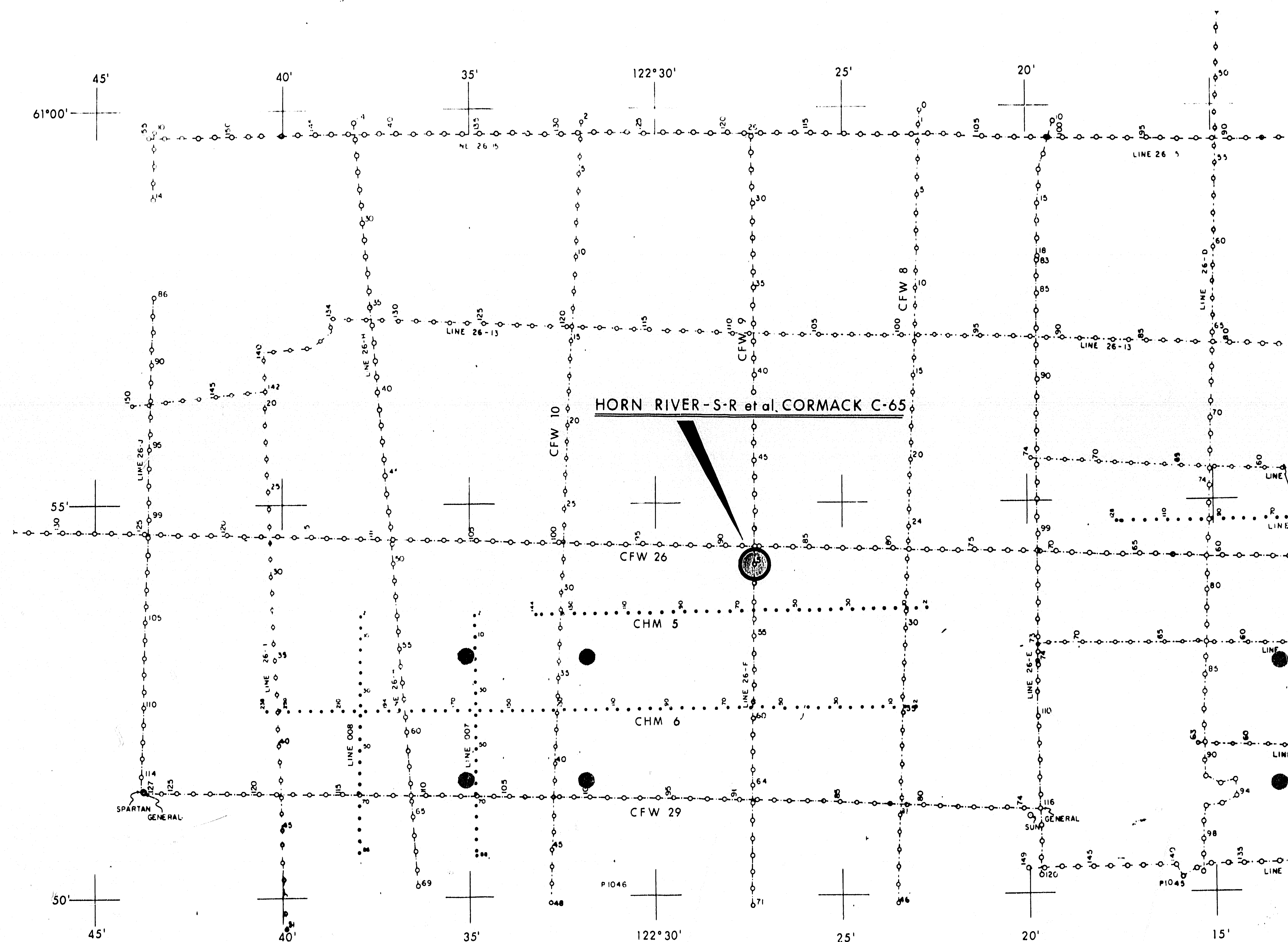
A. H. Dyer
DOMINION LAND SURVEYOR

HORN RIVER RESOURCES LTD.



CANADIAN ENGINEERING SURVEYS CO. LTD.
EDMONTON ALBERTA

JOB NO.	C - 6467
DATE:	Dec 30/70
DRG NO	C467-M-1



SCURRY-RAINBOW OIL LIMITED
ISLAND RIVER AREA

SHOT POINT MAP

DEC. 1970

Horn River SR et al Cormack C-65

61-00-122-15

WELL NAME Horn River BR et al. Cormack C-65
FIELD
LOCATION: Unit C Area 65
Latitude 60-34-13 Section 65 Grid 61-00-122-15
Longitude 122-27-21
U.W.L.R. 60.90361 --- 122.45583
U.W.I. 3000656100122150

Rig Release Date.
Status.
Information Release Date.

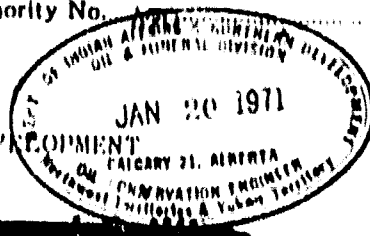
CHANGE OF NAME:

DATE RECEIVED	INDEX
14-12-70	Application for a Drilling Authority. Well Completion Data. Well History Report.
24-12-70	Application to Amend a Drilling Authority. Application to change a Well Name.
27-1-71	Application to Abandon a Well or Suspend Drilling . Application to Alter Condition of a Well. Well History Supplement. Well Completion Data. Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells - Munograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells - Vitter's Method.
	M.P.R. - Oil - Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report Logs, Large scale..... Small scale.....



File No.
Drilling Authority No.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION



Application to Abandon a Well ~~or Suspend Drilling~~

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to suspend drilling:--

Name and number of well Horn River SR at al Cornack C-65
Location: Unit C Section 65 Grid S/2 61°00' 122°15'
Latitude 60°54'13" Longitude 122°27'21"
From Established Reference Marker
Universal Well Location Reference Lat. 60°54'13" N, Long. 122°27'21" W
Permit No. Lease No. 136265

Murphy Oil Company Ltd.
(Permitter, Licensee, Lessee)

Date of commencement of proposed program January 4, 1971

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at -
Gas at -
Water at -
Total Depth 395 Date of last operations January 4, 1971
Present condition of well Abandoned with 3 drill collars in hole to 298'

CASING RECORD

Casing Size O.D. inches	Weight	Amount	Set At--	Bars of Cement and Additives	Amount Pulled
1. N11					
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug Position	Geological Formation	Number of Bars of Cement	Remarks
1	298-278	Gravel	14	
2	20-surface	"	21	

The following logs have been run N11
Other operations proposed.

Operations to be carried out by Konting
Address c/o Konting, Can. Del, Ft. Simpson
Responsible Agent in field Gordon Gillis

Contractor Licence No. 800
Address 1020 Aquitaine Tower, Calgary, Alta.

Dated at Calgary, Alberta, this 19 Day of January 19 71
Signed by *Gordon Gillis* Company Horn River Resources Ltd.
Title President Operator's Exploratory Licence No. 1785

Notes--The Oil Conservation Engineer's office must be notified before work is commenced.

(For OIL AND MINERAL DIVISION use only)

APPROVAL

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

Shirley oral approval given by Mr. D.H.J. Thoms
on the 4th January 1971.

Dated 27th January 19 71

LAND 42-90 (5) (2-69)

Forms to be submitted in triplicate to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

Gordon Gillis
Oil Conservation Engineer

File No.
Drilling Authority No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Amend a Drilling Authority

This application, in triplicate, must be submitted and approved before commencing operations. If the well location is changed, this application must be accompanied where required, with a plan of survey approved by the Surveyor General.

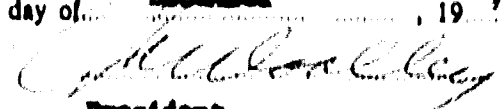
In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend
Drilling Authority No. **470**, concerning **Horn River Resources Ltd.**
Horn River SA et al Connack C-65, 60°34'13" N. Lat., 122°27'21" W. Long.
(Name and Number of Well)

The following amendments are required:

Change Casing Size from 8 5/8" to 7"

Change Rig No. from 9 to Rig No. 35.

Reasons for the amendments: **Original rig not available for this hole.**

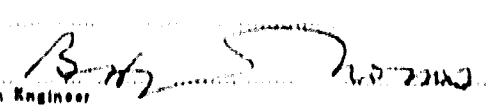
Dated at **Calgary**, this **22nd** day of **December**, 19 **70**
Signed by 
Title **President**
Company **Horn River Resources Ltd.**

(For Oil and Mineral Division use only)

APPROVED

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

Date **24th Dec**, 19 **70**


Oil Conservation Engineer

Forms to be submitted to the Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.



Drilling Authority No. 470
Project No.
File No.

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 **Horn River SR et al Connack Q-65**
Location: Unit **C** Section **65** Ord **8/2 61°00' 122°15'**
Latitude **60°34'13"** Longitude **122°27'21"**
Unique Well Identifier **3000656100122150**
Universal Well Location Reference **Int. 60.56341° N., Long. 122.45293° W.**
Elevation: Ground **2155** K.B. **est 2164** feet above sea-level.
Well is expected to produce from **Joan Marie** formation at a depth
of about **3600** feet. Expected total final depth **4000**
Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. Lease No. **136-65** Acreage **6232**
Permittee, licensee, or lessee **Murphy Oil Company Ltd.**
Exploratory Licence No. **1603**
Surface owned by Crown or **Crown**
(If allocated 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	Depth of Cement
1. 8 5/8"	24#	J-55	New	420	125
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment **Paleozoic (Devonian)**
Carbonates - Control with:

One 10" 900 Series Ram Type B.O.P.

One 10" 900 Series Hydro B.O.P.

Well will be drilled with Rotary Rig No. **9** by **Kenting Oilwell Drilling**
(Drilling Contractor or company)

Responsible agent of applicant:—
At well **Gordon Gillis** Contractor's business licence No. **800**
Address **c/o Kenting, Can. No. 1** At registered office **P. L. Woolley**
Port St. Louis Address **1020 Aquitaine Tower, 540 - 5th Ave. S.W.**
It is understood that if changes become necessary, notice of the change of plan will be submitted. **Calgary 1, Alta.**
Dated at **Calgary**, this **7th** day of **December** 19 **70**
Signed by **P. L. Woolley** Company **Kenting Oilwell Drilling**
Title **President** Operator's Licence No. **1785**

(For Oil and Mineral Division use only)

APPROVED

- This application has been examined and approved subject to the following conditions:—
1. Copies of this Drilling Authority shall be exhibited at the drilling site in both the Dominion and the Drilling Foreman's Office between April and its release date.
 2. The Company shall submit to this office, on Tuesday of each week, the latest report.

Dated **14th December** 19 **70** Please see over page

Oil Conservation Engineer
Forms to be submitted to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

received by radio on the progress of the well.

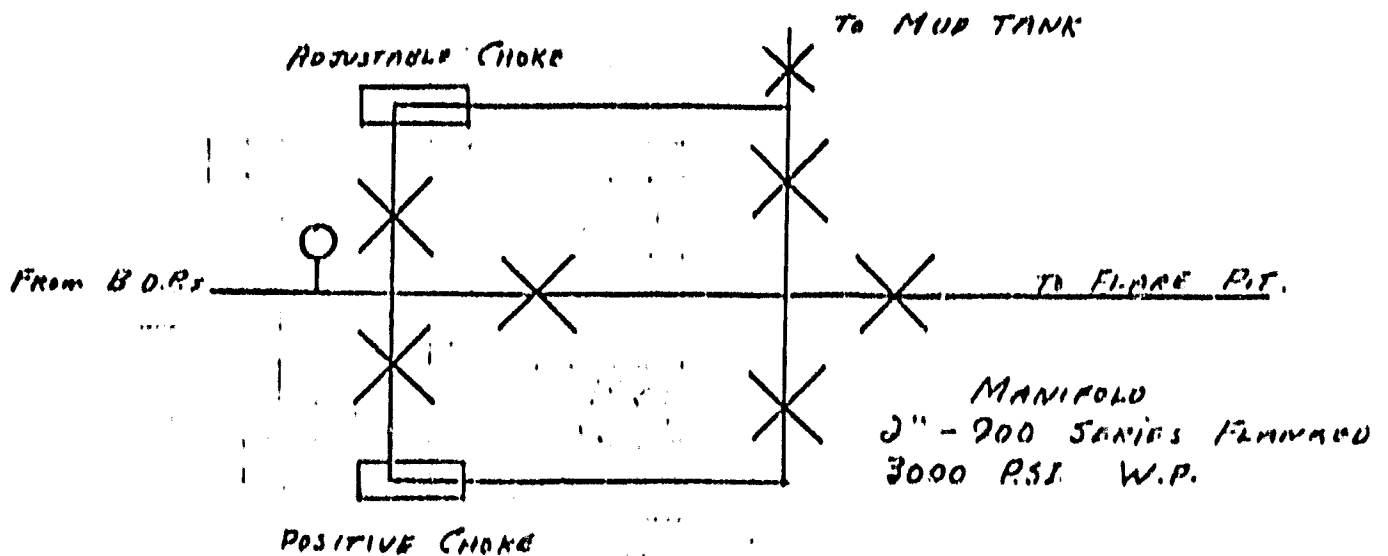
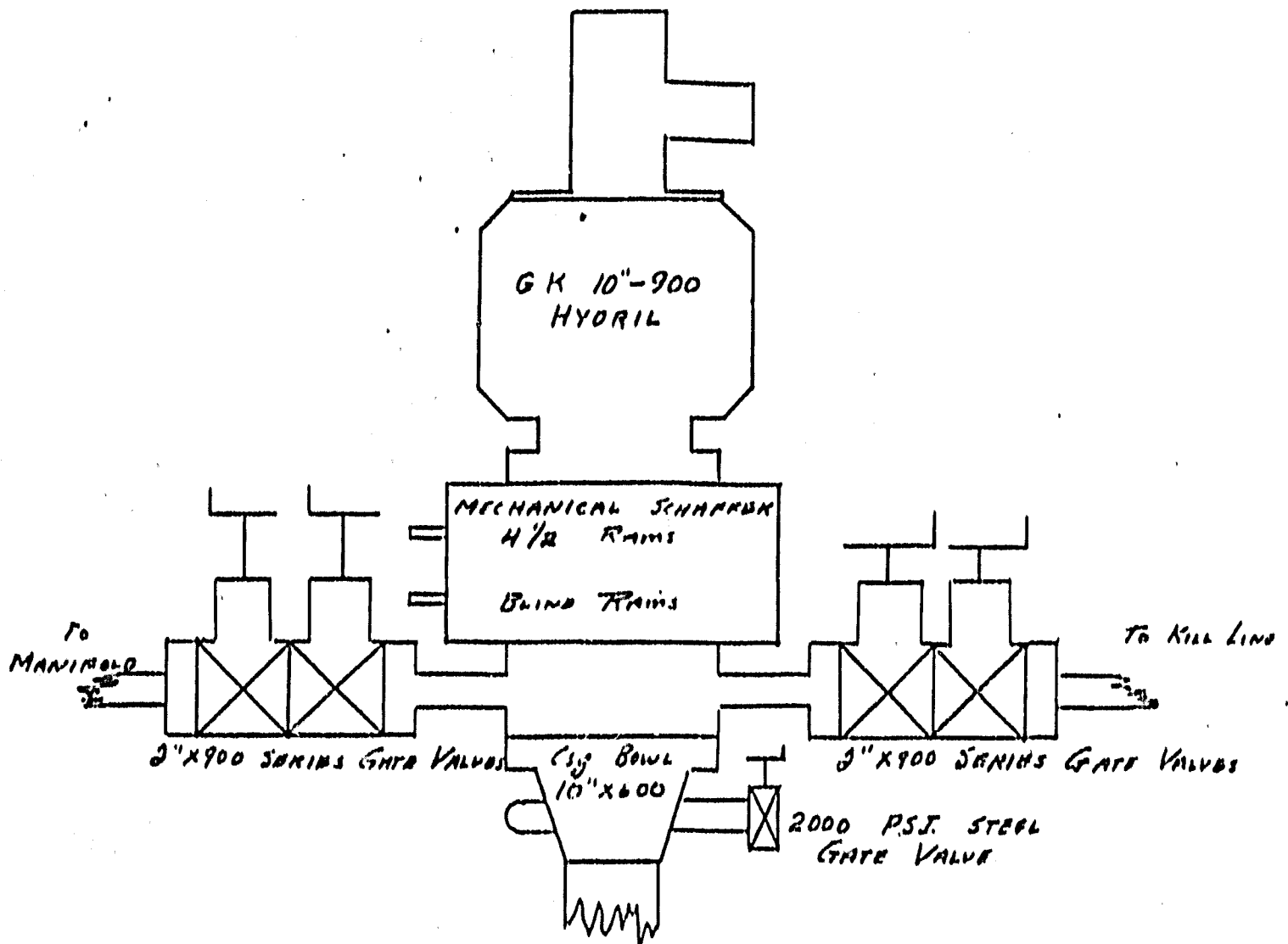
3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Production and intermediate strings of casing are to receive the approval of the Oil Conservation Engineer prior to running.


B.H.J. Thomas, Oil Conservation Engineer

KENTING OILWELL DRILLING

DEC 2 / 70

RIG # 2



Geological Log

NAME: Horn River Sh. et al. Corral Canal
LOCATION: 66°54'19"N, 122°27'21"W. (Approximate, taken from seismic survey)
SECURITY: TIGHT
ELEVATION: G.L. 2155 est. (Taken from seismic survey)
 R.R.

ANTICIPATED GEOLOGICAL BARRIERS:

<u>FORMATION:</u>	<u>Subsea</u>	<u>Depth</u>
Rotcho (Paleozoic)	~ 125	2030
Tetcho	~ 375	2690
Rakisa	~ 900	3055
Jean Marie	~ 1600	3555
Fl. Simpson	~ 1700	3855
TD	~ 1800	3955

SAMPLES: One set 10' samples in cloth bags from surface to TD for the Department of Indian Affairs and Northern Development.
 One set 10' samples in plastic vials from surface to TD for Scurry-Rainbow.

CORING: Core if indications of porosity are encountered in the Jean Marie.

LOGGING: Induction Electrollog ~ 20' scale from surface to TD
 ~ 50' scale from surface to TD
 Borehole Compensated Acoustilog Caliper ~ 20' scale from surface to TD
 ~ 50' scale from surface to TD

TESTING: Test any porosity in the Jean Marie.

Prepared by

December 6, 1970

J. L. MILLIGAN, P. Geol.
 Chief Geologist

SCURRY PERSONNEL:

	<u>Home Phone</u>
Geol. Dept. J. L. Milligan	263-1620
W. Galloway	255-1096
Eng. Dept. B. Burns	263-6961
D. Logan	269-5365

HORN RIVER SR ET AL CORMAK C-65

5th January 1971

TOTAL DEPTH: 361'. Abandoned.

SPUDDED: 31st December 1970.

90' drill collars lost in hole. Ran 20-foot cement plug placed on top of collars.

Ran 5' cement plug at surface.

Skidded rig to C-65A location.

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 35 LOCATION H.R. 5-R. 151 A.H. CURMUCK AREA (ARMARK) DATE SAT 4 1971

Team — Midnight - 8 a.m.		From Footage To										Wt. Drill String (1000 lbs)		DRILL COLLARS				FUEL		WATER		COAL		Stands		REMARKS			Time													
Specify actual hours worked		Hrs.		No.		Size		Type		Size Jct.		Serial No.		Weight		R.P.M.		Pi. Drilled		Mts		Feet Reamed		Mts		CONDITION		D. Collars		Other ft		C.B. ft		Subs. ft		ft Up On Kelly		TOTAL		Start Stop Interval		
Driller	<u>C. L. KULLINIK</u>	<u>5</u>																																								
Derrick	<u>F. FRAZER</u>	<u>5</u>																																								
Floor	<u>V. MEYER</u>	<u>5</u>																																								
Floor																																										
Floor																																										
Motor	<u>B. BARNES</u>	<u>5</u>																																								
Mechanics																																										
Extra																																										
Injuries	<u>NIL</u>																																									
Fire																																										
Team — 8 a.m. to 4 p.m.		Specify actual hours worked		Hrs.		From Footage To		Wt. Drill String (1000 lbs)		DRILL COLLARS				FUEL		WATER		COAL		Stands		REMARKS			Time																	
Driller	<u>A. ANDERSON</u>	<u>9</u>																																								
Derrick	<u>E. SARKIS</u>	<u>9</u>																																								
Floor	<u>M. KALSHUTH</u>	<u>9</u>																																								
Floor																																										
Floor																																										
Motor	<u>M. KAMINSKI</u>	<u>9</u>																																								
Mechanics																																										
Extra																																										
Injuries	<u>NIL</u>																																									
Fire																																										
Team — 4 p.m. to Midnight		Specify actual hours worked		Hrs.		From Footage To		Wt. Drill String (1000 lbs)		DRILL COLLARS				FUEL		WATER		COAL		Stands		REMARKS			Time																	
Driller	<u>D. WRIGHT</u>	<u>13</u>																																								
Derrick	<u>W. ANDERSON</u>	<u>13</u>																																								
Floor	<u>M. MUSHKATSKY</u>	<u>12</u>																																								
Floor																																										
Floor																																										
Motor	<u>L. MCHUMSKY</u>	<u>12</u>																																								
Mechanics																																										
Extra																																										
Injuries	<u>NIL</u>																																									
Fire																																										

Totco Ring on Bit No.

D.P. Caliper Date

Results

From Pipe Rack

Total Contractor Time

Hrs.

Toolpusher

B.O.P. Test-Operated

Time

Results

Total Company Time

Hrs.

Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 25 LOCATION Near River S. of Al. Co. near G. 15 AREA B. 1. 1. DATE JAN 3 19 57

To — Midnight - 8 a.m.		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Stands	
Specify actual hours worked		Hrs.		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Driller <u>K. KRAINGER</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Derrick <u>F. FRISER</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Floor <u>V. MYER</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Floor				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Floor				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Motor <u>B. BENEFUND</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Mechanics				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Extra				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Injuries				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
First				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	

To — 8 a.m. to 4 p.m.		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Stands	
Specify actual hours worked		Hrs.		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Driller <u>W. H. HARRIS</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Derrick <u>W. H. HARRIS</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Floor <u>W. H. HARRIS</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Floor				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Motor <u>W. H. HARRIS</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Mechanics				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Extra				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Injuries				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
First				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	

To — 4 p.m. to Midnight		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Stands	
Specify actual hours worked		Hrs.		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Driller <u>W. H. HARRIS</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Derrick <u>W. H. HARRIS</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Floor <u>W. H. HARRIS</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Floor				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Motor <u>W. H. HARRIS</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Mechanics				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Extra				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
Injuries				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	
First				No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.	

REMARKS		Start	Stop	Interval
Run in		12:00	12:15	15
Run in		12:15	12:30	15
Run in		12:30	12:45	15
Run in		12:45	1:00	15
Run in		1:00	1:15	15
Run in		1:15	1:30	15
Run in		1:30	1:45	15
Run in		1:45	2:00	15
Run in		2:00	2:15	15
Run in		2:15	2:30	15
Run in		2:30	2:45	15
Run in		2:45	3:00	15
Run in		3:00	3:15	15
Run in		3:15	3:30	15
Run in		3:30	3:45	15
Run in		3:45	4:00	15
Run in		4:00	4:15	15
Run in		4:15	4:30	15
Run in		4:30	4:45	15
Run in		4:45	5:00	15
Run in		5:00	5:15	15
Run in		5:15	5:30	15
Run in		5:30	5:45	15
Run in		5:45	6:00	15
Run in		6:00	6:15	15
Run in		6:15	6:30	15
Run in		6:30	6:45	15
Run in		6:45	7:00	15
Run in		7:00	7:15	15
Run in		7:15	7:30	15
Run in		7:30	7:45	15
Run in		7:45	8:00	15
Run in		8:00	8:15	15
Run in		8:15	8:30	15
Run in		8:30	8:45	15
Run in		8:45	9:00	15
Run in		9:00	9:15	15
Run in		9:15	9:30	15
Run in		9:30	9:45	15
Run in		9:45	10:00	15
Run in		10:00	10:15	15
Run in		10:15	10:30	15
Run in		10:30	10:45	15
Run in		10:45	11:00	15
Run in		11:00	11:15	15
Run in		11:15	11:30	15
Run in		11:30	11:45	15
Run in		11:45	12:00	15
Run in		12:00	12:15	15
Run in		12:15	12:30	15
Run in		12:30	12:45	15
Run in		12:45	1:00	15
Run in		1:00	1:15	15
Run in		1:15	1:30	15
Run in		1:30	1:45	15
Run in		1:45	2:00	15
Run in		2:00	2:15	15
Run in		2:15	2:30	15
Run in		2:30	2:45	15
Run in		2:45	3:00	15
Run in		3:00	3:15	15
Run in		3:15	3:30	15
Run in		3:30	3:45	15
Run in		3:45	4:00	15
Run in		4:00	4:15	15
Run in		4:15	4:30	15
Run in		4:30	4:45	15
Run in		4:45	5:00	15
Run in		5:00	5:15	15
Run in		5:15	5:30	15
Run in		5:30	5:45	15
Run in		5:45	6:00	15
Run in		6:00	6:15	15
Run in		6:15	6:30	15
Run in		6:30	6:45	15
Run in		6:45	7:00	15
Run in		7:00	7:15	15
Run in		7:15	7:30	15
Run in		7:30	7:45	15
Run in		7:45	8:00	15
Run in		8:00	8:15	15
Run in		8:15	8:30	15
Run in		8:30	8:45	15
Run in		8:45	9:00	15
Run in		9:00	9:15	15
Run in		9:15	9:30	15
Run in		9:30	9:45	15
Run in		9:45	10:00	15
Run in		10:00	10:15	15
Run in		10:15	10:30	15
Run in		10:30	10:45	15
Run in		10:45	11:00	15
Run in		11:00	11:15	15
Run in		11:15	11:30	15
Run in		11:30	11:45	15
Run in		11:45	12:00	15
Run in		12:00	12:15	15
Run in		12:15	12:30	15
Run in		12:30	12:45	15
Run in		12:45	1:00	15
Run in		1:00	1:15	15
Run in		1:15	1:30	15
Run in		1:30	1:45	15
Run in		1:45	2:00	15
Run in		2:00	2:15	15
Run in		2:15	2:30	15
Run in		2:30	2:45	15
Run in		2:45	3:00	15
Run in		3:00	3:15	15
Run in		3:15	3:30	15
Run in		3:30	3:45	15
Run in		3:45	4:00	15
Run in		4:00	4:15	15
Run in		4:15	4:30	15
Run in		4:30	4:45	15
Run in		4:45	5:00	15
Run in		5:00	5:15	15
Run in		5:15	5:30	15
Run in		5:30	5:45	15
Run in		5:45	6:00	15
Run in		6:00	6:15	15
Run in		6:15	6:30	15
Run in		6:30	6:45	15
Run in		6:45	7:00	15
Run in		7:00	7:15	15
Run in		7:15	7:30	15
Run in		7:30	7:45	15
Run in		7:45	8:00	15
Run in		8:00	8:15	15
Run in		8:15	8:30	15
Run in		8:30	8:45	15
Run in		8:45	9:00	15
Run in		9:00	9:15	15
Run in		9:15	9:30	15
Run in		9:30	9:45	15
Run in		9:45	10:00	15
Run in		10:00	10:15	15
Run in		10:15	10:30	15
Run in		10:30	10:45	15
Run in		10:45	11:00	15
Run in		11:00	11:15	15
Run in		11:15	11:30	15
Run in		11:30	11:45	15
Run in		11:45	12:00	15
Run in		12:00	12:15	15
Run in		12:15	12:30	15
Run in		12:30	12:45	15
Run in		12:45	1:00	15
Run in		1:00	1:15	15
Run in		1:15	1:30	15
Run in		1:30	1:45	15
Run in		1:45	2:00	15
Run in		2:00	2:15	15
Run in		2:15	2:30	15
Run in		2:30	2:45	15
Run in		2:45	3:00	15
Run in		3:00	3:15	15
Run in		3:15	3:30	15
Run in		3:30	3:45	15

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS

RIS No. 35 LOCATION Han River SR. at Al. Pomaek C-64 AREA CANTON L. DATE Jan 8 1991

Year — Midnight — 8 a.m.	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
Driller: P. K. Kanner	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Driller: E. Eason	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Floor: V. Maynard	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Mechanics: B. B. B. B.	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Extra: Nil	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Notes: Nil	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed

Year — 8 a.m.	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
Driller: R. A. Anderson	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Driller: R. A. Anderson	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Floor: R. A. Anderson	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Mechanics: R. A. Anderson	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Extra: Nil	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Notes: Nil	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed

Year — 4 p.m. to Midnight	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands
Driller: R. A. Anderson	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Driller: R. A. Anderson	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Floor: R. A. Anderson	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Mechanics: R. A. Anderson	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Extra: Nil	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
Notes: Nil	No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed

REMARKS	Start	Time	Interval
Wash on FINEST SAND	12:00	9:00	1
Wash Pipe	9:00	9:00	1
Wash up OVERSHOT	7:00	9:00	1
MAKE UP OVERSHOT	4:00	8:00	1/2
TRIP IN TO TOP OF HOLE	8:00	9:00	1/2
CIRC & WASH OVER HOLE	8:00	9:00	1/2
TRIP IN TO TOP OF HOLE	8:00	12:00	2 1/2
WASH OVER HOLE	12:00	12:00	1/2
TRIP IN TO TOP OF HOLE	12:00	2:00	1 1/2
Rig To Run Csg To WASH OVER	2:00	8:00	1
Run Csg	5:00	4:00	1
Run Csg & Wash up to air	4:00	4:30	1/2
WASH OVER D.C.	4:30	7:30	3
Circ & Wash mud	7:30	9:30	2
WASH OVER D.C.	9:30	11:00	1 1/2
Full Csg	11:00	12:00	1
Washed OVER D.C. FILM 298-20			

Totco Ring on Bit No. O.P. Calipered Date Results From Pipe Rack Total Contractor Time Hrs. Toolpusher

B.O.P. Test-Operated Time Results Total Company Time Hrs. Approved by

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 25 LOCATION *NEW RIVER S.B. RT. AL. COLMAK. C-65* AREA *Colmack A.* DATE *Jan 1* 19*91*

Hour — Midnight — 8 a.m.
Specify actual hours worked
Driller *E. K. Kullner*
Derrick *E. P. Packer*
Floor *V. Meyer*
Motor *B. Bennefeld*
Mechanics
Extras
Injuries
Notes *N/A*

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stand
10	14	14	34	16	7	84	64	25	1
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
1A	1 1/2	DT-7	3-15	R.R.	160	150	304	11	
MUD	12 Ma.	2 a.m.	4 a.m.	6 a.m.	Additives	At Survey Degree	MOTOR HOURS	Next On	
WEIGHT					<i>Fea - 2000</i>	<i>814</i>	<i>1</i>		
VISCOSITY					<i>Time - 100</i>	<i>210</i>	<i>2</i>		
GEL					<i>Caustic - 20</i>				
No. 1	Pre-100	300	300	300	<i>Silicist - 20</i>				
Model	S.P.M.	64	64	64					
No. 2	Pre-100	64	64	64					
Model	S.P.M.								
Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Lost on Slip	Next Slip
W.L.	F.C.	pH							

REMARKS	Start	Time	Interval
<i>Rin. Search & Survey</i>	<i>12:00</i>	<i>12:00</i>	<i>0</i>
<i>Time 1st Run</i>	<i>12:15</i>	<i>12:30</i>	<i>15</i>
<i>Clear Mud (Sand) & Air Mud</i>	<i>12:30</i>	<i>12:45</i>	<i>15</i>
<i>Survey</i>	<i>12:45</i>	<i>13:00</i>	<i>15</i>
<i>Drill</i>	<i>13:00</i>	<i>13:15</i>	<i>15</i>
<i>Work on Pump</i>	<i>13:15</i>	<i>13:30</i>	<i>15</i>
<i>Drill</i>	<i>13:30</i>	<i>13:45</i>	<i>15</i>
<i>Work on Pump</i>	<i>13:45</i>	<i>14:00</i>	<i>15</i>
<i>Drill</i>	<i>14:00</i>	<i>14:15</i>	<i>15</i>
<i>Run Time</i>	<i>14:15</i>	<i>14:30</i>	<i>15</i>

Hour — 8 a.m. — 4 p.m.
Specify actual hours worked
Driller *K. Anderson*
Derrick *F. Sabluk*
Floor *R. K. K. K.*
Motor *M. K. K. K.*
Mechanics
Extras
Injuries
Notes *D.C. on Rock*

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stand
304	91	395	44	20	8	84	64	25	1
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
1A	1 1/2	DT-7	3-16	R.R.	160	150	304	11	
MUD	12 Ma.	10 p.m.	12 Noon	2 p.m.	Additives	At Survey Degree	MOTOR HOURS	Next On	
WEIGHT					<i>Caustic - 100</i>	<i>362</i>	<i>14</i>		
VISCOSITY					<i>Time - 100</i>				
GEL									
No. 1	Pre-100	500	500	500					
Model	S.P.M.	64	64	64					
No. 2	Pre-100	500	500	500					
Model	S.P.M.								
Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Lost on Slip	Next Slip
W.L.	F.C.	pH							

REMARKS	Start	Time	Interval
<i>Rig Set</i>	<i>8:00</i>	<i>8:15</i>	<i>15</i>
<i>Drill</i>	<i>8:15</i>	<i>8:30</i>	<i>15</i>
<i>Cleanout Pump</i>	<i>8:30</i>	<i>8:45</i>	<i>15</i>
<i>Drill</i>	<i>8:45</i>	<i>9:00</i>	<i>15</i>
<i>Cleanout Pump</i>	<i>9:00</i>	<i>9:15</i>	<i>15</i>
<i>Drill</i>	<i>9:15</i>	<i>9:30</i>	<i>15</i>
<i>Cleanout Pump</i>	<i>9:30</i>	<i>9:45</i>	<i>15</i>
<i>Drill</i>	<i>9:45</i>	<i>10:00</i>	<i>15</i>
<i>Work Pipe (Tighten Can)</i>	<i>10:00</i>	<i>10:15</i>	<i>15</i>
<i>Drill</i>	<i>10:15</i>	<i>10:30</i>	<i>15</i>
<i>TRIP FOR BIT</i>	<i>10:30</i>	<i>10:45</i>	<i>15</i>

Hour — 4 p.m. to Midnight
Specify actual hours worked
Driller *W. K. K. K.*
Derrick *W. K. K. K.*
Floor *W. K. K. K.*
Motor *W. K. K. K.*
Mechanics
Extras
Injuries
Notes *Tagged Fish at 298.82*

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stand
395	0	395	0	2000	9	84	64	25	1
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed
2A	1 1/2	DT-7		654312					
MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Survey Degree	MOTOR HOURS	Next On	
WEIGHT					<i>Caustic 500</i>				
VISCOSITY					<i>Time 50</i>				
GEL									
No. 1	Pre-100								
Model	S.P.M.								
No. 2	Pre-100								
Model	S.P.M.								
Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet	Cut	Feet Lost on Slip	Next Slip
W.L.	F.C.	pH							

REMARKS	Start	Time	Interval
<i>Run in & fish</i>	<i>7:00</i>	<i>8:00</i>	<i>1</i>
<i>Cleanout Pump</i>	<i>8:00</i>	<i>8:30</i>	<i>30</i>
<i>fish pipe to pull out</i>	<i>8:30</i>	<i>9:00</i>	<i>30</i>
<i>Pull out</i>	<i>9:00</i>	<i>9:30</i>	<i>30</i>
<i>Tag down D.C.</i>	<i>9:30</i>	<i>10:00</i>	<i>30</i>
<i>Run in with 7 1/2 bit</i>	<i>10:00</i>	<i>10:15</i>	<i>15</i>
<i>Circ & tag fish</i>	<i>10:15</i>	<i>10:45</i>	<i>30</i>
<i>Clean out Pump</i>	<i>10:45</i>	<i>11:00</i>	<i>15</i>
<i>Run on top of fish</i>	<i>11:00</i>	<i>11:15</i>	<i>15</i>
<i>twist off D.C. pulled</i>	<i>11:15</i>	<i>11:30</i>	<i>15</i>
<i>TO D.C. PIN BROKEN</i>			
<i>6 1/2 AC + 1 1/2 AC in Hole</i>			

KENTING OILWELL DRILLING

DIVISION OF KENTING EXPLORATION SERVICES LTD.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 35 LOCATION *HAN RIVER 2R. RT. N. CUMMACK C-65* AREA *CUMMACK L.* DATE *Dec 31* 19 *70*

Time — Midnight - 8 a.m.

Specify actual hours worked Hrs.

Driller *E. L. Kallman* 8

Derrick *F. FRASER* 8

Floor *V. MEYER* 8

Floor

Floor

Motor *R. BARNHART* 4

Mechanics

Extra

Injuries

Press

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands		
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Fl. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
MUD											
WEIGHT											
VISCOSITY											
GEL											
Additives											
At Surveys Degree											
MOTOR HOURS											
Heat Oil Change											
PUMPS											
No. 1											
Model											
No. 2											
Model											
General											
W.L.											
F.C.											
pH.											

REMARKS	Start	Time	Interval
Rig up under COMMUNITY	12.00	2.00	2
Drill Rat Hole	2.00	2.30	1/2
Work on Pump	2.30	3.30	1
Drill Rat Hole	3.30	5.00	1 1/2
Work on Pump	5.00	5.30	1/2
Drill Rat Hole	5.30	8.00	2 1/2

Time — 8 a.m. to 4 p.m.

Specify actual hours worked Hrs.

Driller *R. ANDERSON* 8

Derrick *F. FRASER* 8

Floor *V. MEYER* 8

Floor

Motor *R. BARNHART* 8

Mechanics

Extra

Injuries

Press

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands		
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Fl. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
MUD											
WEIGHT											
VISCOSITY											
GEL											
Additives											
At Surveys Degree											
MOTOR HOURS											
Heat Oil Change											
PUMPS											
No. 1											
Model											
No. 2											
Model											
General											
W.L.											
F.C.											
pH.											

REMARKS	Start	Time	Interval
Rig up	8.00	8.15	1/4
Ream RAT HOLE	8.15	1.00	2 1/2
Rig to Pump	1.00	2.15	1 1/2
Spud in & Drill	2.15	4.00	1 3/4

Time — 4 p.m. to Midnight

Specify actual hours worked Hrs.

Driller *W. H. Green* 8

Derrick *W. H. Green* 8

Floor *R. BARNHART* 8

Floor

Motor *R. BARNHART* 8

Mechanics

Extra

Injuries

Press

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FUEL	WATER	COAL	Stands		
No.	Size	Type	Size Jct.	Serial No.	Weight	R.P.M.	Fl. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
MUD											
WEIGHT											
VISCOSITY											
GEL											
Additives											
At Surveys Degree											
MOTOR HOURS											
Heat Oil Change											
PUMPS											
No. 1											
Model											
No. 2											
Model											
General											
W.L.											
F.C.											
pH.											

REMARKS	Start	Time	Interval
Drill	4.00	4.30	1/2
Rig spw. & Survey	4.30	4.45	1/4
Drill	4.45	5.45	1
Thaw air Lines	5.45	6.30	3/4
Drill Boulders	6.30	10.45	4 1/4
Survey	10.45	11.00	1/4
Drill	11.00	12.00	1