

February 21, 1969

Banff Oil Ltd.  
550 Sixth Avenue S. W.  
Calgary, Alberta

File W.F.

Re Sogepet Aquit  
Kaskattama Prov. #1  
Surveyed Location

Gentlemen:

Returned The Canadian Indemnity Company Bond No. 1S 5139  
issued in favour of Banff Oil Ltd. to cover Drilling License No. 2168.

The Petroleum Division advised all obligations under the  
provisions of oil and natural gas regulations had been fulfilled to  
their satisfaction and it was in order to return the bond.

Yours truly,

T. Morgan  
Chief Mining Recorder

PT/oas  
Encl.

cc: The Canadian Indemnity Company  
610 Third Street S. W.  
Calgary, Alberta

*Abandoned  
See Key List*

FEBRUARY 20, 1969

Chief Mining Recorder

Chief of Financial Services

Mr. F. Stewart

The Canadian Indemnity Company Bond No. 1S 5139

Banff Oil Ltd.

On August 25, 1966 you were furnished with  
The Canadian Indemnity Company Bond No. 1S 5139 in the  
amount of \$5,000.00 in favour of Banff Oil Ltd. to cover  
Drilling License No. 2168.

The Petroleum Division advised it was now in order  
to release this bond.

T. Morgan

PT/cas

INTER-DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

FROM F. S. Gamey  
Reservoir Engineer

TO T. Morgan  
Chief Mining Recorder

ATTENTION \_\_\_\_\_

SUBJECT RELEASE OF DRILLING BOND

DATE February 18/69

Lic. 2168      Sogepet Aquit Kaskattama Prov. #1

Release of drilling bond No. IS 5139, for the above well location,  
is in order.



THE CANADIAN INDEMNITY COMPANY  
610 THIRD STREET S W • CALGARY CANADA

February 12th, 1969

REGISTERED

Department of Mines  
Legislative Buildings  
Winnipeg, Manitoba

Dear Sirs

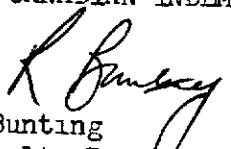
RE: Bond No. 1S 5139  
Banff Oil Ltd.

We have been advised that the above bond is no longer required as the above company did not operate in the Province of Manitoba during the year 1968. In accordance, therefore, with the terms and conditions of this bond, we hereby give notice of cancellation and said bond shall be null, void, without force and effect thirty days (30) days following receipt of this letter by your Post Office.

Your acknowledgement in due course would be appreciated.

Yours very truly,

THE CANADIAN INDEMNITY COMPANY

  
R. Bunting  
Casualty Department

RB/gm

LIC 2168

SOGEDET AQUIT KASHATTAMA PROU #1

Letter Leads Branch No objection to discharging  
No lease taken out.

O.K. M.S.G. / Feb 12/69.

# BANFF OIL LTD.

550 SIXTH AVENUE S W  
TELEPHONE 269 6901

CALGARY ALBERTA CANADA  
TELEX 038 2791

June 21, 1967

File W F.

Re Sogepet Aquit  
Kaskattama Prov #1  
Surveyed Location

Department of Mines &  
Natural Resources  
901 Norquay Building  
401 York Avenue  
WINNIPEG 1, Manitoba

Attention Mr J.S Richards

Gentlemen

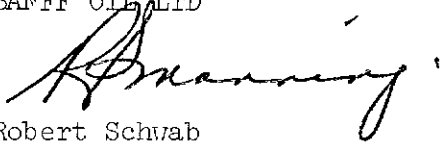
By transmittal dated April 19, 1967, completed copies of the "Application To Resume Drilling" on the subject well were submitted for your approval. The application stated the Sogepet Aquit Kaskattama Prov #1 well location to be at Latitude  $57^{\circ} 02' 45''$  Longitude  $94^{\circ} 04' 00''$

This application was to cover proposed operations at the subject well which was originally licensed, by preliminary survey only, at the location of Latitude  $57^{\circ} 02' 45''$  Longitude  $94^{\circ} 04' 00''$

The final survey of the subject well, a copy of which is attached, details the location to be at Latitude  $57^{\circ} 04' 18.487''$  Longitude  $90^{\circ} 10' 29.408''$

Yours very truly,

BANFF OIL LTD

*for:*   
Robert Schwab  
Operations Superintendent

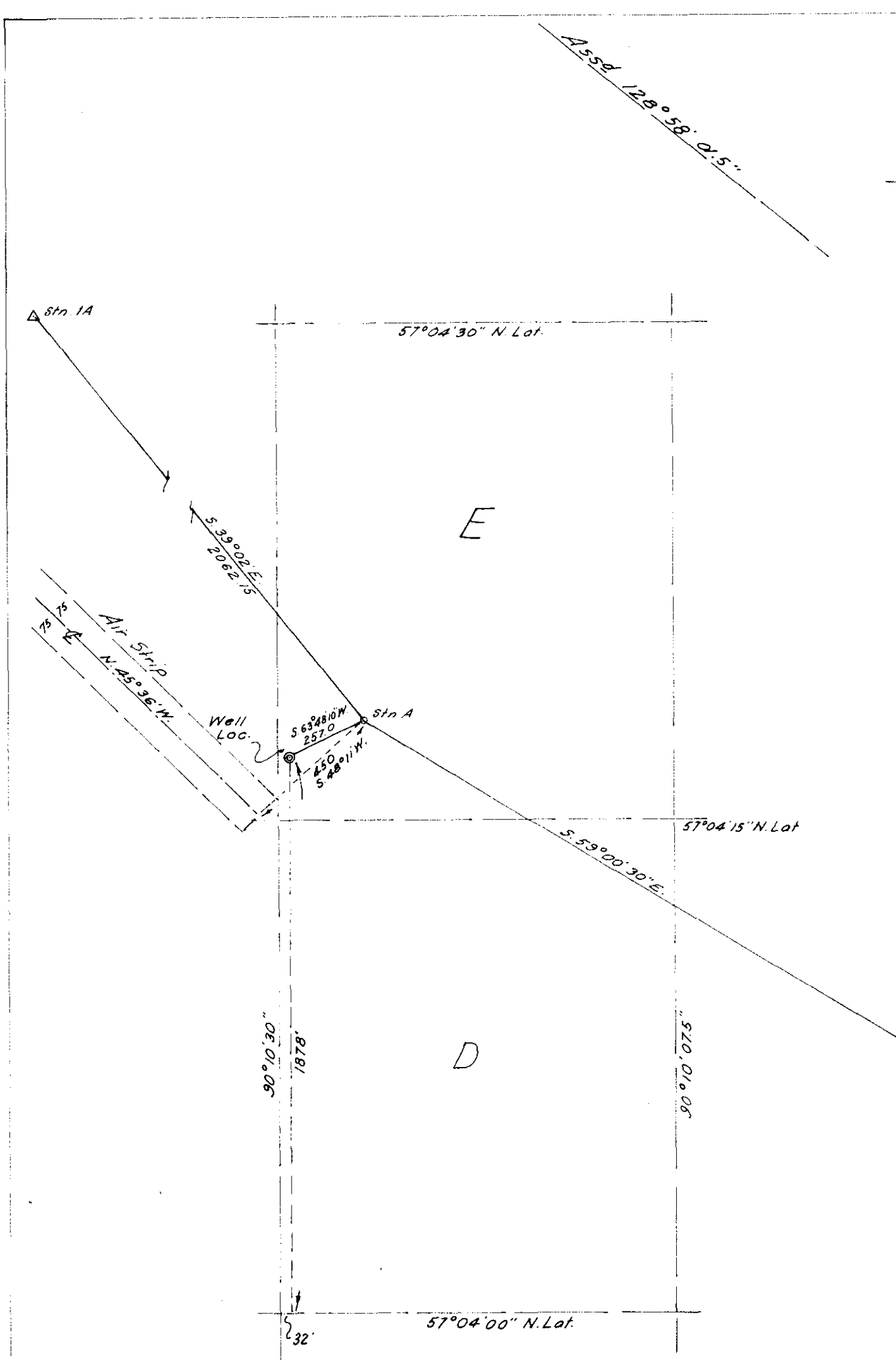
RTM/H

Attachment

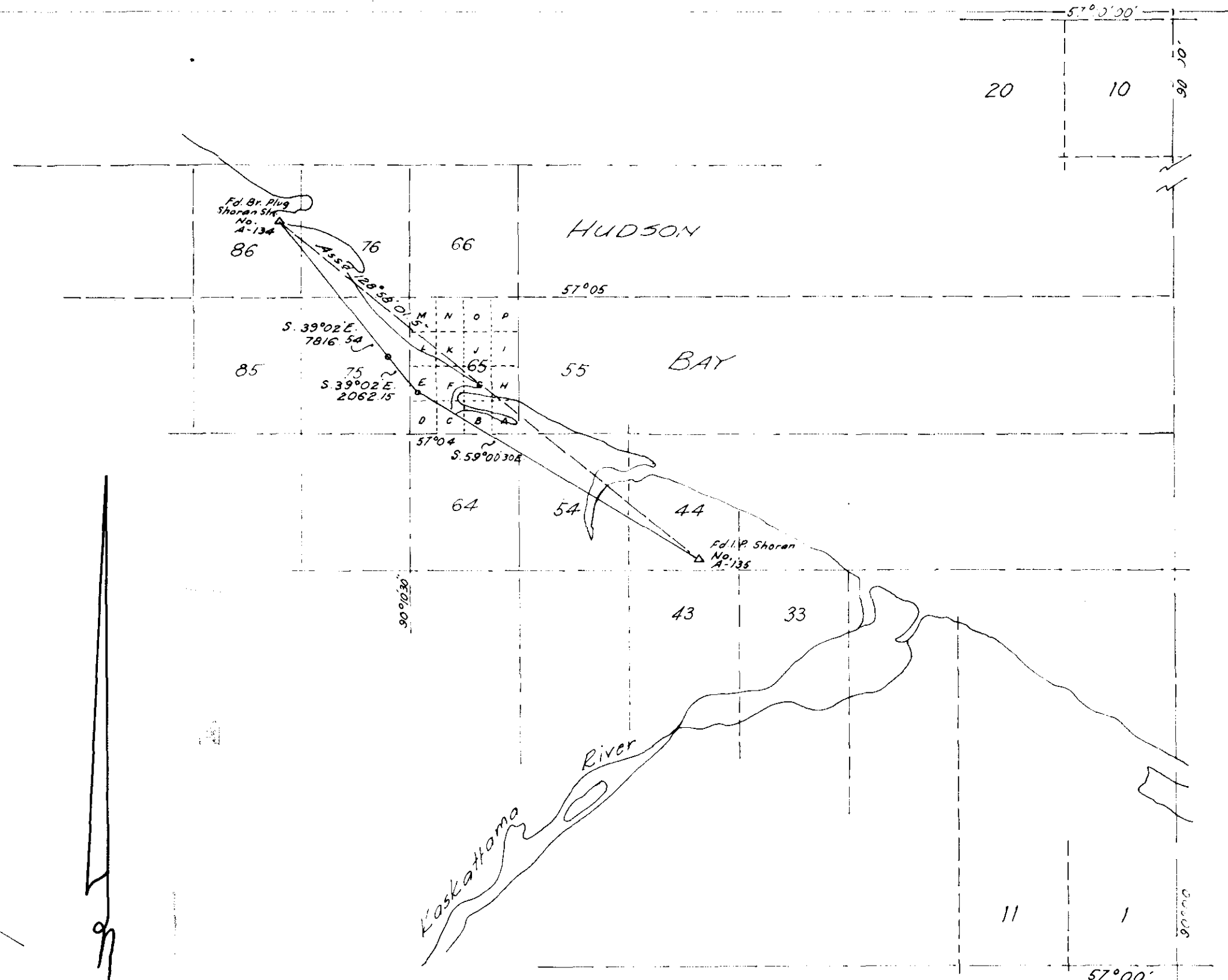
cc Mr M E Hriskevich  
Mr R T Russell

*TRUOR - I think you have a copy of the survey  
but you can check and keep this copy  
if you want*

89



**DETAIL**  
Scale: 400 ft. to 1 in.



**LOCATION PLAN**  
Scale: 1 in. to 1 mile

**SOGEPET AQUIT KASKATTAMA PROV. #1**

S.W. Cor. Sec. 65 Grid Area 57°10' - 90°00'

Unsurveyed Territory - Manitoba

Well is located 32' E. & 1878' N. of S.W. cor. Sec. 65 - 57°10' - 90°00' Grid Area  
Well located at Lat. 57°04' 18.487" Long. 90°10' 29.408"

Elevation: 15.8 Ground  
29.5 K.B.  
Datum: High tide mark on shore of bay 13.3 ft.

I certify that the survey represented by this plan is correct to the best of my knowledge and was completed on the 25<sup>th</sup> day of September 1966

*G. J. Sidman*  
Manitoba Land Surveyor

MIDWEST SURVEYS



BANFF OIL LTD.

*J. M. ...*

*B. J. Heikkila*

C448-66

**DEPARTMENT OF MINES  
& NATURAL RESOURCES**

JUN 3 1967

PETROLEUM ENGINEERING  
DIVISION

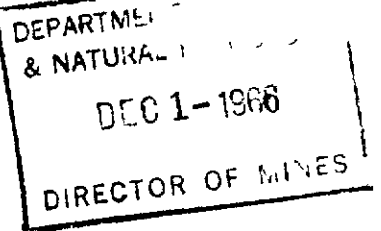
December 1, 1966

F.S. Galey

M. J. Gobert  
Asst. Deputy Minister

Sogepet Aquit Kaskattama Prov #1

(Phone call - Banff to Grady Johnson - Dec. 1/66)



Re: Permafrost -

Drilling encountered lime at 20'. There was water seepage from the Bay which they believe kept out the permafrost. The temperature survey doesn't show up the permafrost.

Re: Abandonment -

The company intends to abandon or suspend the well in one week's time. They are now waiting on decision of Aquitaine whether to suspend and continue drilling next summer or to abandon.

If they suspend, they will put a plug across the bottom of the casing and fill the casing with diesel fuel.

There is a waterflow in the bottom of the hole now which would likely displace the diesel fuel if it were used to fill up the hole. A plug across the bottom of the casing is necessary. They have enough diesel fuel on hand to fill up the casing - approximately 17 bbls.

The depth of the hole is around 2,800' at the present time. They would like to suspend drilling right away because of the possibility of an accident and not being able to get a plane in. They are waiting for Aquitaine to make a decision.

P. c. to: Dr. J. F. Davies, Chief Geologist.  
Mr. T. Morgan, Chief Mining Recorder.

cc: J. S. Richards ✓



November 29, 1966

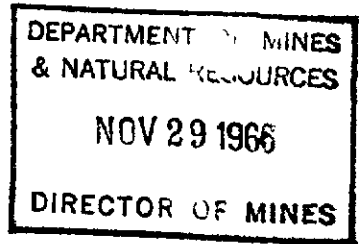
F. S. Gamey

M. J. Gobert  
Asst. Deputy Minister

Banff Drilling

Sogepet Aquit Kaskattama . . . #1

Phone call to Grady Johnson - November 29, 1966.



Banff recovered their "fish" and the hole is standing at  
2777'.

They are now awaiting a power plant to be flown in today,  
weather permitting. They are also having a water treat-  
ment problem and are attempting to use water from the Bay.

Regarding drill core - they will start sending it to  
McCabe as soon as their palaeontologists release it.

They are sending in copies of logs run to date and expect  
to carry out more logging and a velocity survey at total  
depth.

cc: J. S. Richards

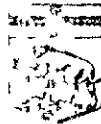
p. c. to: Dr. J. F. Davies, Chief Geologist.  
Mr. T. Morgan, Chief Mining Recorder.



INTERNAL DEPARTMENTAL MEMORANDUM

FROM F. S. Gamey

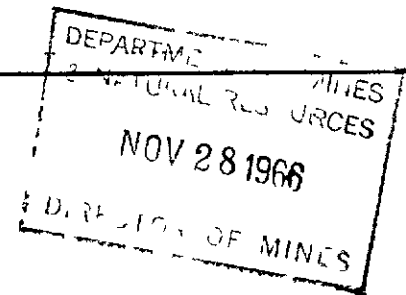
SUBJECT Huason Bay Drilling



PROVINCE  
OF  
MANITOBA

DATE November 28, 1966

TO J. S. Richards  
Director



Sogepet Aquit Kaskattama Prov. #1

The report from Banff this morning (Nov. 28/66) stated they were "fishing". The depth of hole is 2748'.

NOTE

Banff asked Grady Johnson to inform them by next week if the Manitoba Government would like the hole left open; otherwise they will plug and abandon it.

Please advise.

A handwritten signature in cursive script, appearing to read 'F. S. Gamey'.

cc: M. J. Gobert

p. c. to: Dr. J. F. Davies, Chief Geologist.  
Mr. T. Morgan, Chief Mining Recorder.

November 28, 1966

F. S. Gamey

M. J. Gobert  
Asst. Deputy Minister

Banff Drilling

Sogepet Aquit Kaskattama Prov. #1

9 5/8" csg. set at 49'  
7 1/2" csg. set at 327'  
3 1/2" csg. set at 1732'

4 11/16" core bit used  
*for cored sections*

Open hole from 1732' on (fishing at 2748' - Nov. 28/66)  
2 15/16" core bit from 1732'

Logs run

(Schlumberger)

Temperature log	0 - 1630'
Induction E. log	328' - 1632'
Sonic Gamma Ray	328' - 1632'
Gamma Ray Neutron	0 - 1633'

No drill stem tests have been run.

---

67 core sections have been taken down to a depth of 2267'.

The logging equipment is still at the well site and further logging will likely be carried out when hole reaches T.D.

p. c. to: Dr. J. F. Davies, Chief Geologist.  
Mr. T. Morgan, Chief Mining Recorder.

INTERDEPARTMENTAL MEMORANDUM

FROM R. C. Garey



PROVINCE OF MANITOBA

DATE November 7, 1966

TO M. J. Covert  
Asst. Deputy Minister

SUBJECT HUDSON BAY DRILLING

DEPT. OF MINES & TECHNICAL SERVICES  
NOV 7 - 1966  
DIRECTOR OF MINES

Lic. 2168 Sogepet Aquit Kaskattama Prov. #1

Barré reported to Virden, November 7, 1966, that the above well was coring at 2182'.

cc: J. S. Richards

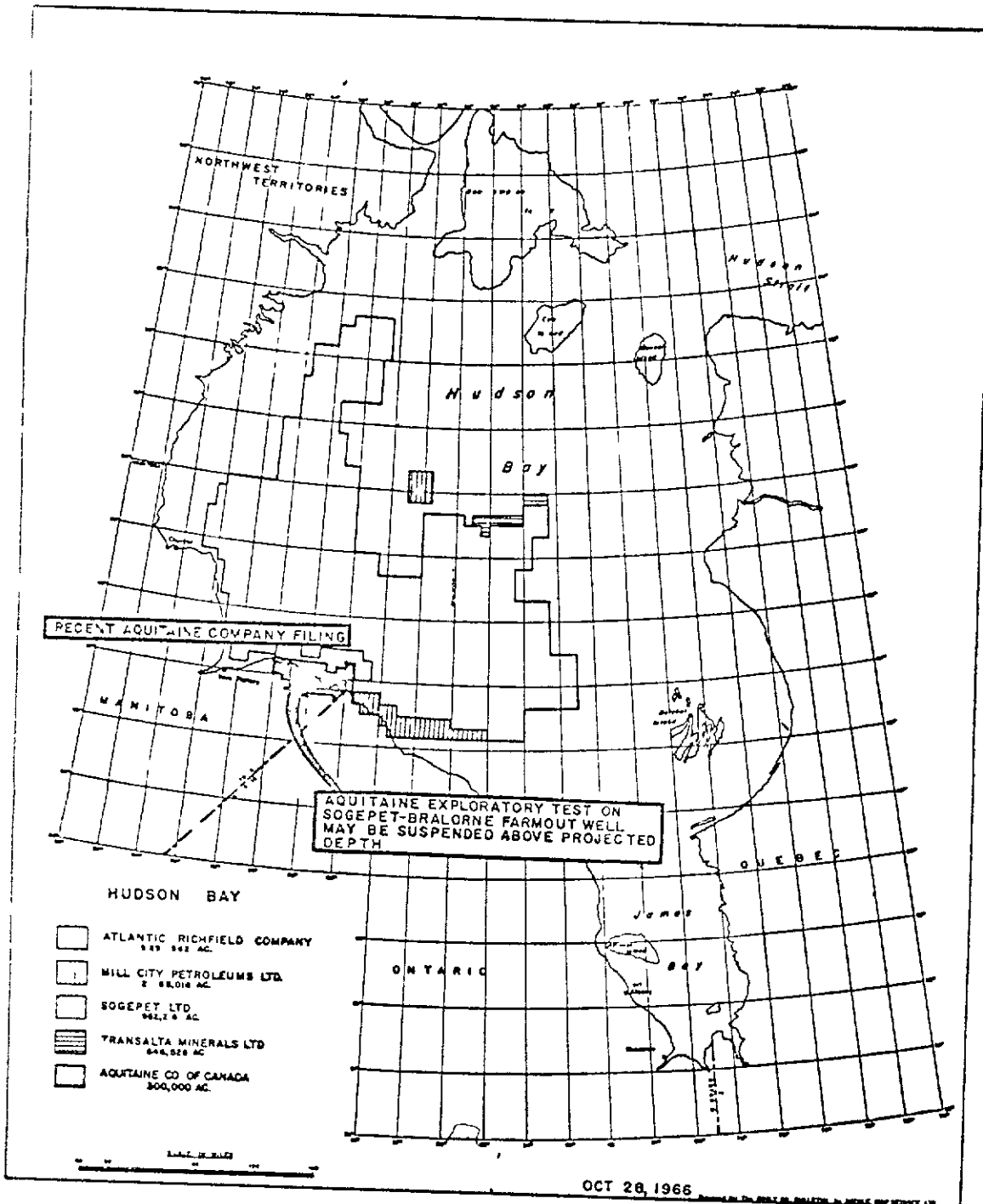
p. c. to Mr. T. Morgan,  
Chief Mining Recorder.

Dr. J. F. Davies,  
Chief Geologist.

AQUITAINE COMPANY OF CANADA FILING ADJACENT TO RIGHTS HELD UNDER FARMOUT FROM SOGEPET

The adjacent map details the 300 000 acres that Aquitaine Company of Canada Limited filed from the Manitoba Government on October 25th 1966. The spread of rights it will be noted are adjacent to lands previously held under exploration agreement from the team of Sogepet Limited and Bralorne Petroleum Ltd.

At the presently drilling Sogepet Aquitaine Kaskattama Prov No 1 wildcat (57 degrees and 4 minutes North Latitude and 90 degrees and 9 minutes West Longitude) the most recent depth report shows the venture at 1 700 feet. The well is scheduled to test all prospective sediments to basement. It must be realized that in a geological province as previously untested as the Hudson Bay district thickness of sediments is relatively unknown and it may therefore be necessary to suspend operations prior to reaching basement. A determining factor in the depth reached will very definitely be weather and operating conditions. Big Indian Drilling Co Ltd, project contractor has one of its specially equipped Failing 1500 rotary drills on the wildcat and it can drill to a maximum of 000 feet if required. At last report it was making hole below 1,761 feet. Drilling operations will be carried out as long as possible, or basement is reached.



SUMMARY ALTA, GOV T LAND TRANSACTIONS (Continued from Page Five)

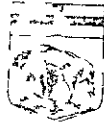
PETROLEUM AND NATURAL GAS PERMITS TERMINATED - NIL  
PETROLEUM AND NATURAL GAS RESERVATIONS ISSUED - NIL

Muskeg Oil Company

No	Twp	Rge	Mer	Acres
674L	53	5	5	15,360

INTE-DEPARTMENTAL MEMORANDUM

FROM F. S. Gamey



PROVINCE  
OF  
MANITOBA

DATE October 31, 1966

TO M. J. Gobert  
Asst. Deputy Minister

SUBJECT Hudson Bay Drilling

*File* → Sogeret Aquit Kaskattama Prov. #1

1966  
OCT 31 1966

OCTOBER 31, 1966

A report phoned to Virden office, today, stated the hole had reached a depth of 1820' and they were preparing to core.

The last core reported was core No. 42 from 1742' to 1761'.

A copy of the "Daily Oil Bulletin" for October 28th is enclosed for your information.

A handwritten signature in cursive script, likely belonging to the sender, F. S. Gamey.

cc: J. S. Richards

p. c. to. ~~Mr. T. Morgan,~~  
Chief Mining Recorder. -- with copy of map.

Dr. J. F. Davies,  
Chief Geologist. -- with copy of map.



PROVINCE OF MANITOBA

T MORGAN  
CHIEF MINING RECORDER

Whitehall 67444

DEPARTMENT OF MINES AND NATURAL RESOURCES  
MINES BRANCH

RECORDING DIVISION  
904 NORQUAY BUILDING  
401 YORK AVENUE WINNIPEG 1

August 25, 1966

Dept. of Labour  
Mechanical & Engineering Division  
611 Norquay Building  
Winnipeg 1, Manitoba

Dear Sir

This is to advise that a Drilling License has been issued for the following well

License No. 2168 - issued August 23, 1966

Name of Well Sagepet Agnit Maskottam Prov. #1.

Location <sup>RSB</sup> <sup>or Sec.</sup> <sup>Twp.</sup> <sup>Rge.</sup> <sup>E.M.</sup>  
~~Proposed~~ location - River Delta at approximately latitude 57° 02' 45"  
Name of Company Duff Oil Ltd. Longitude 90° 04' 00"

450 Sixth Avenue S. W.

Calgary, Alberta

Representative at Well Mr. Ken Russell

Charleville, Manitoba

Yours truly,

T. Morgan  
Chief Mining Recorder

cc:

cc: Mr. H. J. Gobert  
Assistant Deputy Minister

cc: Dr. J. F. Davico  
Chief Geologist

August 25, 1966

Banff Oil Ltd.  
550 Sixth Avenue S. W.  
Calgary, Alberta

Gentlemen:

Attached Drilling License No. 2168 issued in the name of your Company covering well known as "Sogepet Aquit Kaskattama Prov. #1" together with application to drill new well, duly approved and your copy of plan.

The approved application is to be retained at the wellsite.

Also attached, please find letters addressed to Mr. M. J. Gobert, Assistant Deputy Minister, relating to the establishment of a campsite on the Kaskattama River and the provisions of Wildlife Regulations.

Would you please advise this office as to the type of electrical plant, whether AC or DC and voltage, to be installed at the campsite, in the event that this Department can install two-way radio communications.

Yours truly,

T. Morgan  
Chief Mining Recorder

TM/oas  
Encls.



August 25, 1966

Chief Mining Recorder

Departmental Accountant

Mr. F. Stewart

Esso Oil Ltd.

Drilling  
License No. 2169

Attached for safekeeping, The Canadian Indemnity Company  
Bond No. IS 5139 in the amount of \$5,000.00 in favour of  
Esso Oil Ltd.

This bond is deposited in connection with drilling operations  
to be carried on, on well known as "Sogepet Aquit Kaskattama Prov.  
#2", License No. 2169.

  
T. Morgan

M/oes  
Attach.

ces; Petroleum Division

*Aug 25/66 -  
Rec'd RGP*

# BANFF OIL LTD.

550 SIXTH AVENUE SW  
TELEPHONE 269 6901

CALGARY ALBERTA CANADA  
TELEX 038 2791

August 18, 1966

File W.F.

Re Sogepet Aquit Kaskattama #1  
Licence Application

Chief Mining Recorder  
Mines Branch  
Department of Mines  
Government of the  
Province of Manitoba  
WINNIPEG, Manitoba

Gentlemen

Enclosed are the following items with respect to licensing the subject well

- ✓ (1) Four (4) copies of the Application For Licence To Drill New Well
- ✓ (2) Our cheque in the amount of \$25 00 for payment of licence fee
- ✓ (3) Sketch plan of the approximate location
- ✓ (4) Canadian Indemnity Company Bond No 1S 5139 in the amount of \$5,000 00
- ✓ (5) A xerox copy of approval by Sogepet to act on their behalf as operator of this well

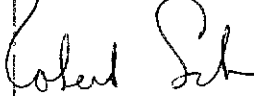
It is our intention to survey the final drilling site once the rig has been positioned, and we will supply you with a copy of the survey plat showing the theoretical surface location and the K.B. elevation as soon as it becomes available

File Sogepet Aquit Kaskattama #1  
Page 2  
August 18, 1966

We trust this meets with your approval and should you have any further questions or other requirements, please do not hesitate to call the undersigned

Very truly yours,

BANFF OIL LTD



Robert Schwab  
Operations Superintendent

RS/H  
Enclosures  
cc Sogepet Limited  
Aquitaine Company of Canada Ltd



PROVINCE OF MANITOBA

ETHER AREA

MINES BRANCH

License No 2168

23/8/66

APPLICATION FOR LICENSE TO DRILL NEW WELL

This application in quadruplicate accompanied by the required license fee and four copies of plan of certified survey must be submitted and approved before commencing operations

AUG 23 66 MINE REGS 6651593 \*\*\*\*\*25 00

Manitoba August 18, 1966

In compliance with Drilling and Production Regulations being Part IV of the Oil and Natural Gas Regulations under The Mines Act R.S.M. 1954 Cap 166 application is hereby made for a license to drill

**SOGEPET AQUIT KASKATTAMA #1**

(Name and Number of Well)

**BANFF OIL LTD.**

By

(Insert name of applicant company (firm or individual))

Surface location L.S

Section Township Range

West of

Estimated location - River Delta at approximately:  
Meridian Latitude 57° 02' 45" - Longitude 90° 04' 00"

(North of South)  
feet (South of North) boundary of

(East of West)  
feet (West of East) boundary of

Area assigned to Well

of area contained

(To be assigned by Director of Mines)

Lease comprises in Permit #8

being 33,229 acres

Lease Number

Permit #8

(If Crown Land)

Leased subleased or assigned from

Manitoba Crown

Oil and natural gas rights owned by

Manitoba Crown

The elevation of the (ground surface) (derrick floor) is (to be supplied)

feet above sea level

Well is expected to produce from Ordovician

formation at a depth of about 3500

feet

We propose to use the following strings of casing either cementing or landing them as below indicated

Casing Size Inches	Weight Lbs / Ft	Grade	Brand	New or Used	Estimated Depth	Sacks of Cement
1 7"	23#	J-55	Mannesman	New	450 ±	to surface
2 3 1/2"	NX Diamond Drill				2000 ±	to surface
3						
4						

AS PER ORD LR 2C

Expected Water, Gas and Oil Horizons and Method of Control Devonian, Silurian and Ordovician. Double Ram and Hydril Mechanical Blowout Preventers. Hydrostatic Head of Mud.

Well will be drilled with (rotary) (cable) tools by

Big Indian Drilling Co. Ltd.

(Drilling contractor or company)

Responsible agent of applicant

At Well Mr. Ron Russell

At registered Manitoba Office Mr. J.A. Macaulay

(Registered)

Address Churchill, Manitoba

Address Somerset Building, Winnipeg, Manitoba

It is understood that if changes in this plan become necessary we will promptly notify you

Dated at Calgary, Alberta

this 18th day of August,

1966

Signed by

*Robert Schell*

(To be signed by duly authorized officer or agent of the applicant or by applicant personally)

Approved -

*[Signature]*

Chief Mining Recorder

Approved -

*[Signature]*

Chief Mining Engineer

DIRECTOR

Kindly read the Excerpts from Drilling and Production Regulations Part IV of Manitoba Regulation 14/47 on reverse side before completing this form

By cheque A3908 B... of M.O. Ltd

25.00

**EXCERPTS FROM DRILLING AND PRODUCTION  
REGULATIONS**

Regulations under The Mines Act R S M 1954 Cap 166, respecting Drilling and Production Operations of Oil and Natural Gas Wells

109 (1) No person shall commence to drill any well or undertake any operation preparatory or incidental to the drilling of a well, or continue any drilling or producing operations at a well unless he holds a license for such purpose issued pursuant to these regulations

(2) No person shall carry on drilling operations at a point other than that specified in his license

110 (1) Application for a license shall be made to the chief mining recorder but shall be subject to the approval of the director, and

(2) The application shall be supported by such evidence as the director may require including —

(a) the proposed programme of the drilling operations

(b) the location of the point at which it is proposed to drill the well

(c) where the proposed well is located in any tract already held by some person by assignment or lease a copy of the assignment or sublease from the original lessee or other satisfactory evidence of the applicant's right to drill at the point applied for

117 (1) The director or anyone authorized by him, shall at all times have access to all wells, records plants and equipment and shall have the right to take samples and particulars or to carry out any test or examination desired,

(2) The operator of a well or of drilling operations at a well shall render such officer any assistance that may be required

(3) Every official authorized by the director to exercise any of such powers shall have at all times while exercising such powers a certificate of authority signed by the director, and shall produce the certificate on demand

120 The surface location of every drilled well shall be as nearly as possible, in the centre of the area assigned to such well in accordance with section 119, but where surface conditions or other circumstance so justify the director may permit the well to be located outside the centre of the assigned area provided that in no event shall a surface location be nearer to the boundary of the assigned area than one half the distance from the centre of the assigned area to the boundary thereof

122 Except where special circumstances exist which in the opinion of the director, justify such action, no license shall be granted for drilling a well within

(a) Three hundred and thirty feet of the nearest boundary of the area of the oil and natural gas rights which are owned or controlled by the operator, or

(b) Three hundred and thirty feet of any road allowance surveyed road railway dwelling, school or church

123 (1) A well shall not penetrate any part of the producing horizon at a point nearer to the interior boundary of the legal subdivision or other area assigned to the particular well than one half the distance from the centre of the area to the boundary of the area

(2) Where a well is drilled upon an approximately square forty acre tract the producing horizon shall be penetrated at a point within the square comprising the ten central acres of the tract

(3) Where in a particular tract the director has prescribed surface locations at points other than in the centre of an approximately forty acre tract the provisions of subsection (2) shall not apply, but such a well shall not penetrate any part of the producing horizon at a point nearer to the boundary of the legal subdivision or assigned area than one half the distance from the top of the well to the nearest boundary,

(4) Where the director in accordance with section 121, has fixed the surface location of a well at a point outside the limits prescribed in section 120, the director may order the operator to so directionally drill such well as to assure the penetration of the horizon at a point in compliance with subsection (3) of this section

133 (1) The equipment of all wells shall include —

(a) On the subsurface equipment, a pin collar or its equivalent, appended to the lower end of the production string or tubing as a safeguard against the loss of testing equipment

(b) On the surface equipment, such valve connections as are necessary to sample oil natural gas, or water being produced

(c) For sampling gas, a half inch sampling valve in the line in which the gas is being metered situated far enough from the orifice plate so as not to contravene the requirements of sections 177 to 182 of these regulations respecting metering,

(2) The surface and subsurface equipment of all oil and natural gas wells shall be so arranged as to allow officers of the Branch to take the closed in pressure the bottom hole pressure and the working pressure of the well or to make any test at any time and the operator of any well shall assist the officers in carrying out any such tests

145 (1) The operator, at any well in the process of drilling or reconditioning shall keep, in triplicate, a daily record of all operations carried on at the well,

(2) The original copies of the daily records for any week shall be filed with the Branch within the next ensuing week and duplicate copies shall be turned over to the owner of the well and made a part of his permanent record

146 (1) The daily report shall set out complete data on all operations carried on during the day, including —

(a) the depth at the beginning of the day and the depth at the end of the day,

(b) the formations penetrated

(c) any change in casing and, if casing set all data regarding the setting, with the size type and weight of casing used,

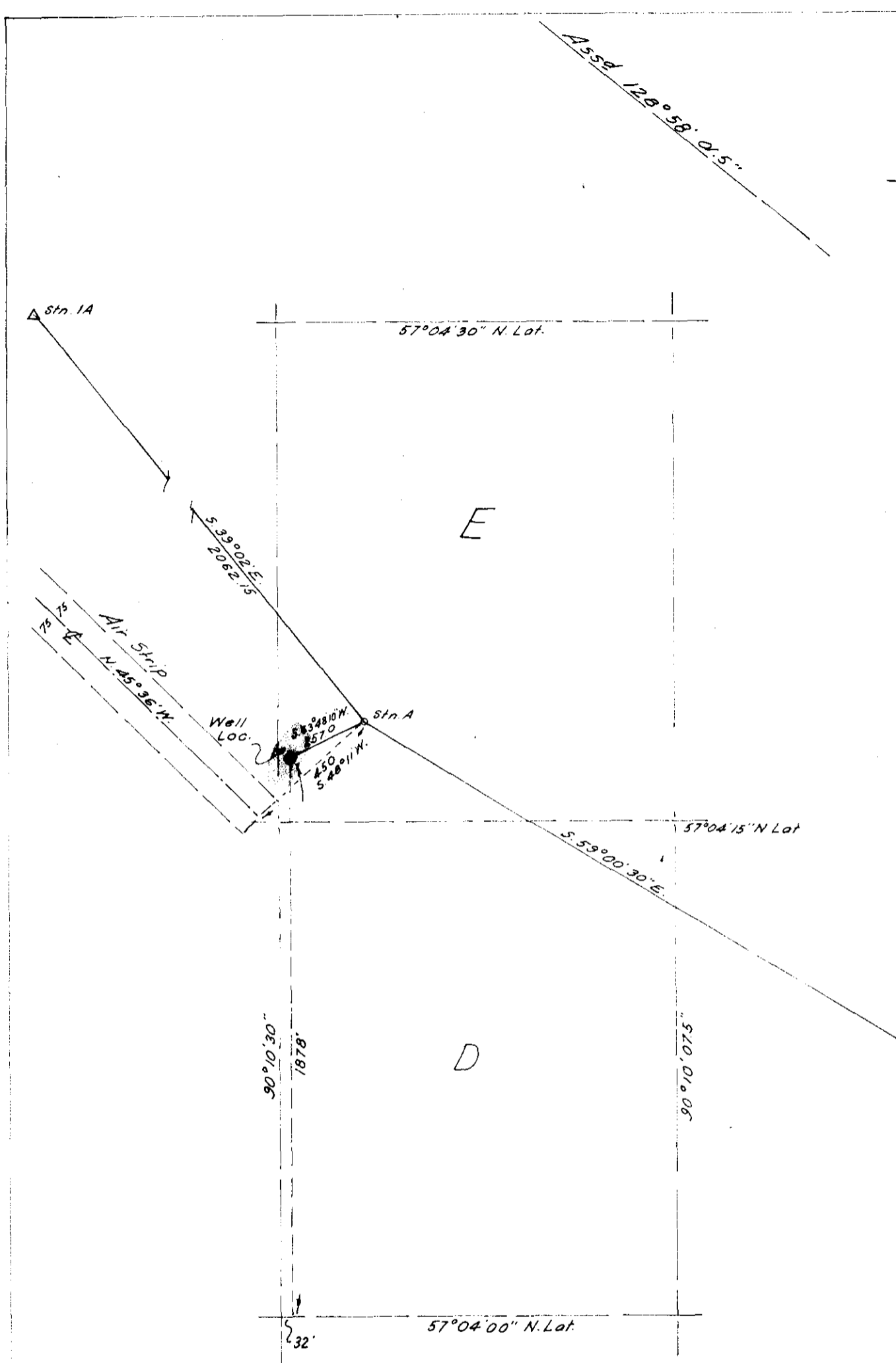
(d) particulars of any cementing

(e) any water oil or natural gas encountered even if only in small showings

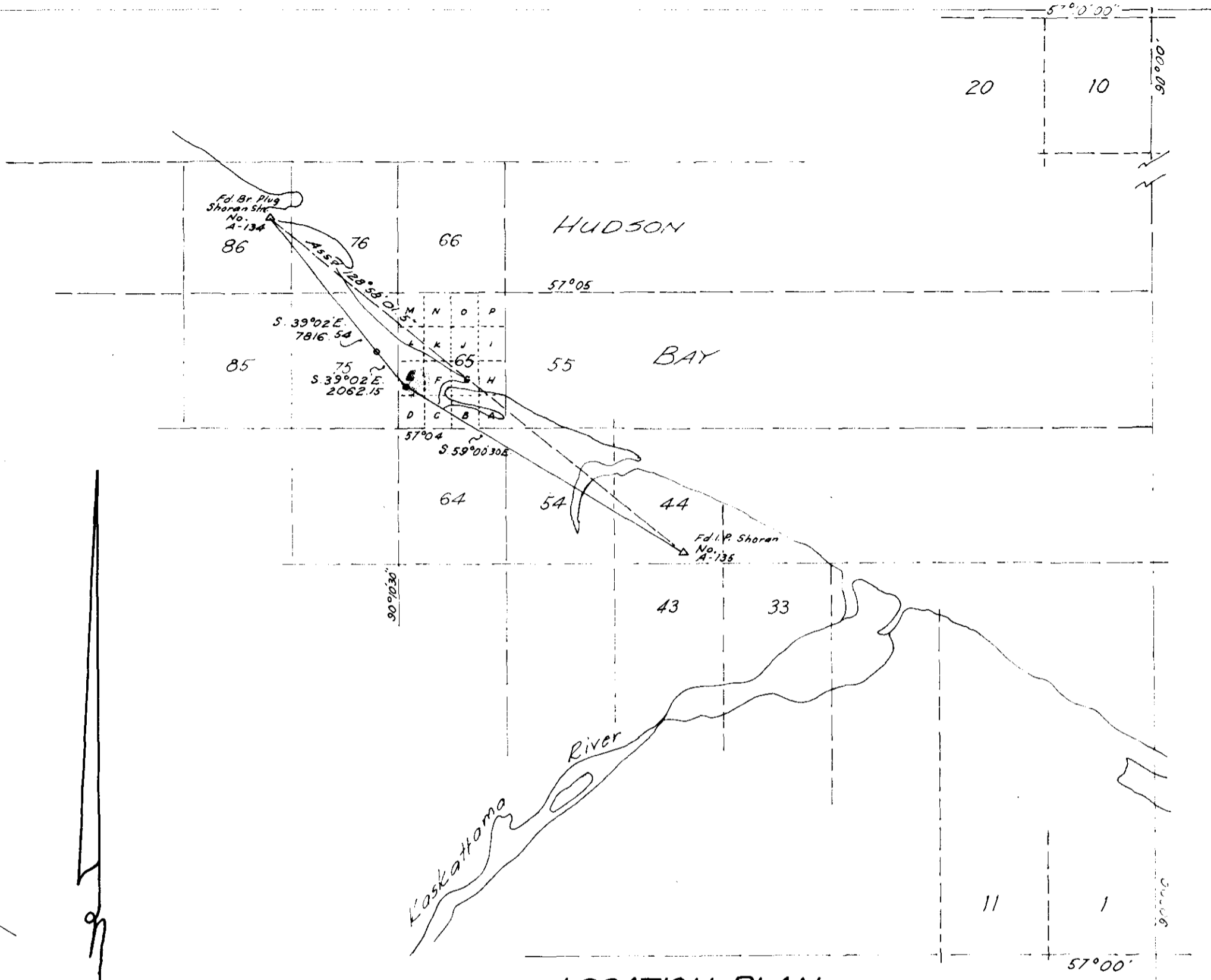
(f) a report on any deviation or other tests carried out

(g) all operations whether strictly drilling operations or not such as fishing shooting perforating acidizing surveying or abandonment

(2) Any suspension of operations shall be noted on the last daily report, previous to such suspension



**DETAIL**  
Scale: 400 ft. to 1 in.



**LOCATION PLAN**  
Scale: 1 in. to 1 mile

**SOGEPET AQUIT KASKATTAMA PROV. #1**

S.W. Cor. Sec. 65 Grid Area 57°10' - 90°00'

Unsurveyed Territory - Manitoba

Well is located 32' E. & 1878' N. of S.W. cor. Sec. 65 - 57°10' - 90°00' Grid Area  
Well located at Lat. 57°04'18.487" Long. 90°10'29.408"

Elevation: 15.8 Ground  
29.5 K.B.  
Datum: High tide mark on shore of bay 13.3 ft.

**BANFF OIL LTD.**

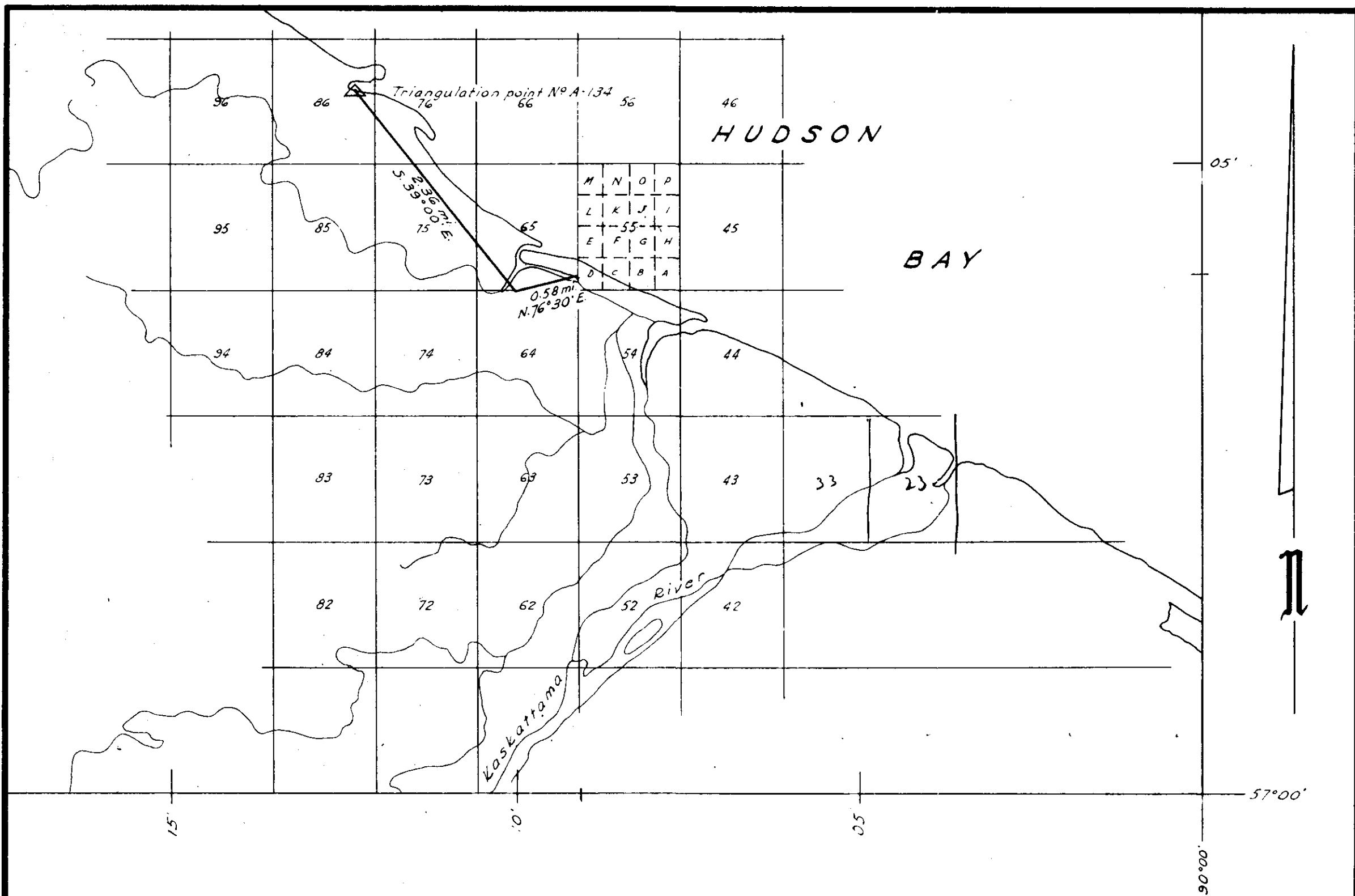
I certify that the survey represented by this plan is correct to the best of my knowledge and was completed on the 25<sup>th</sup> day of September 1966

*[Signature]*  
Manitoba Land Surveyor

**MIDWEST SURVEYS**



C448-66



**BANFF OIL LTD.**  
 SKETCH PLAN OF  
**KASKATTAMA AREA in MANITOBA**  
 UNSURVEYED TERRITORY  
 Scale: 1 inch = 1 mile  
 PREPARED BY: MIDWEST SURVEYS (ALBERTA) LIMITED  
 August 11, 1966.

INTERNAL DEPARTMENTAL MEMORANDUM



PROVINCE  
OF  
MANITOBA

DATE - August 23, 1966.

FROM F. B. Chalmers,  
Director of Lands.

TO T. Morgan,  
Chief Mining Recorder.

SUBJECT File 1, Group 576

---

Regarding your telephone conversation with this office, please note that we have not been approached by letter or in person by Sogepit Mines Ltd. regarding the occupation of crown lands at the mouth of the Kaskattama River for oil exploratory purposes.

However this office has no objection providing the company arranges for surface rights in the event that they strike oil.

*F. B. Chalmers*  
F. B. Chalmers.



cc -Aquitaine Company of Canada Ltd.  
 Attn. Mr. W. D. Clark  
 ✓ Banff Oil Co. Ltd.  
 Attn. Mr. Robt. Schwab  
 -Bralorne Pioneer Petroleum Ltd.  
 Attn. Mr. A. H. Jukes

*Kaskattuma File*

BANFF CI	
Received	
AUG 8 1966	
J C R	
Geology	
Land	
Production	
Accounting	

August 5, 1966

Director of Mines,  
 Department of Mines & Natural Resources,  
 Mines Branch,  
 901 Norquay Building,  
 401 York Avenue,  
 Winnipeg 1, Manitoba

Attention: Mr. J. S. Richards

Re.: Manitoba Oil and Gas Exploration Permits  
 Nos. 2 to 12 incl.  
 Federal Oil and Gas Exploration Permits  
 W 260 - 263 incl.; W 266; W 267; S. Half W 268;  
W 269 - 272 incl.; S. Half W 275.

Dear Sir,

This will advise you that Sogepet Limited has made an agreement with Bralorne Pioneer Petroleum Limited and Aquitaine Company of Canada Limited whereunder Aquitaine has agreed to undertake an exploratory program to evaluate the above Federal and Provincial Permits. Banff Oil Limited has been appointed as operator of the program, and accordingly, until further notice, Banff Oil Limited has our authority to act either in our name or in its own for the purpose of conducting such program and of making all applications and reports necessary or incidental thereto.

Yours very truly,  
 SOGEPET LIMITED

*Franc. R. Joslin*  
 Franc. R. Joslin  
 President

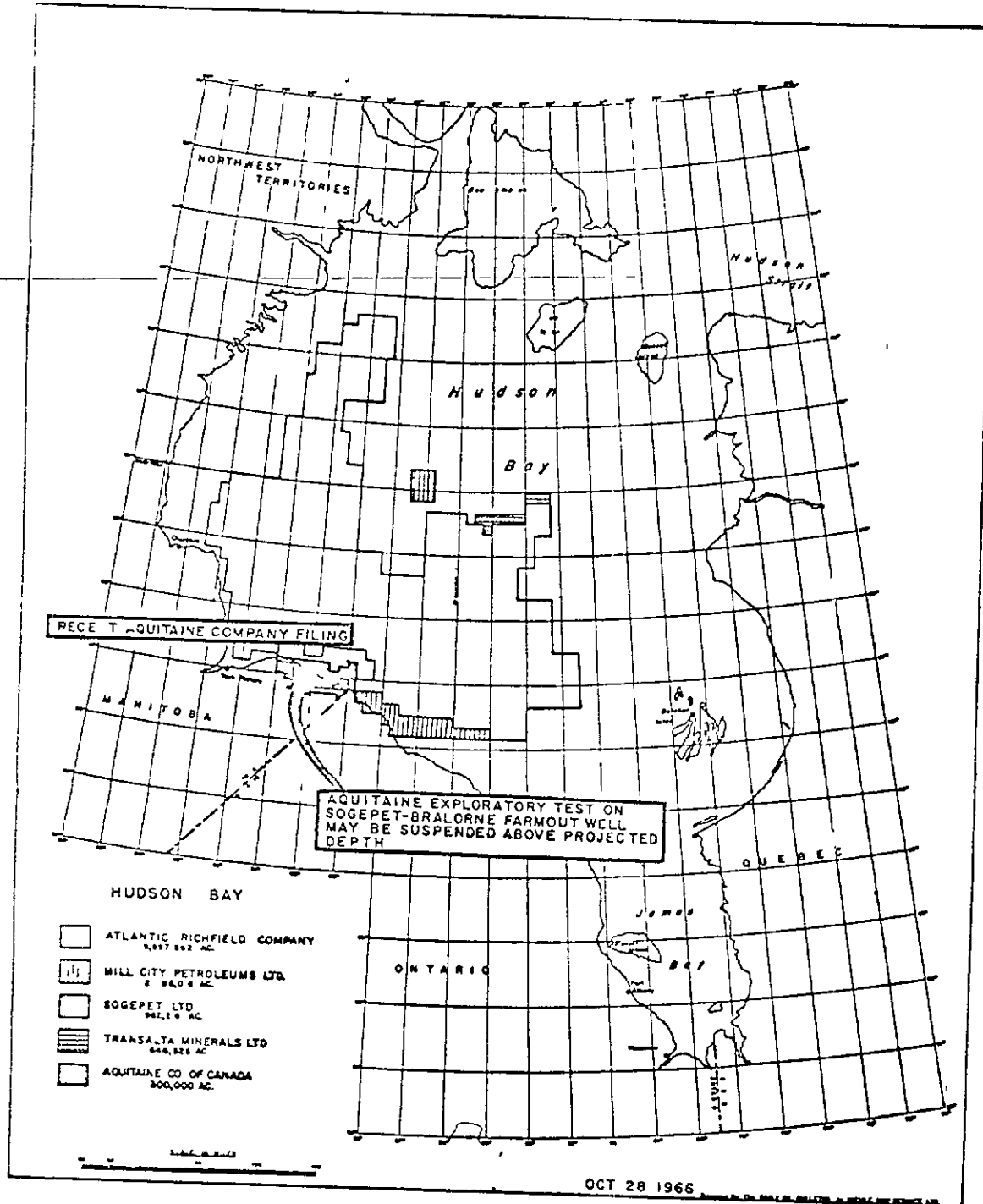
*C. Winemaker*  
 C. Winemaker, C.A.  
 Secretary-Treasurer

cc: Chief, Resources Administration Division,  
 Department of Mines and Technical Surveys  
 Government of Canada

Sogepet Asset Kazakhstan Part #1

- (1) Crown Permit has issued to Sogepet Ltd.
- (2) Letter from Sogepet Limited re agreement and appointment of Baff Oil Limited as operator
- (3) Memo from Lands Branch re use of surface.

AQUITAINE COMPANY OF CANADA FILING ADJACENT TO RIGHTS HELD UNDER FARMOUT FROM SOGEPET



The adjacent map details the 300 000 acres that Aquitaine Company of Canada Limited filed from the Manitoba Government on October 25th 1966. The spread of rights it will be noted are adjacent to lands previously held under exploration agreement from the team of Sogepet Limited and Bralorne Petroleum Ltd.

At the presently drilling Sogepet Aquitaine Kaskattama Prov No 1 wildcat (57 degrees and 4 minutes North Latitude and 90 degrees and 9 minutes West Longitude) the most recent depth report shows the venture at 1 700 feet. The well is scheduled to test all prospective sediments to basement. It must be realized that in a geological province as previously untested as the Hudson Bay district thickness of sediments is relatively unknown and it may therefore be necessary to suspend operations prior to reaching basement. A determining factor in the depth reached will very definitely be weather and operating conditions. Big Indian Drilling Co. Ltd. project contractor has one of its specially equipped failing 1500 rotary drills on the wildcat and it can drill to a maximum of 4 000 feet if required. At last report it was making hole below 1,761 feet. Drilling operations will be carried out as long as possible, or basement is reached.

SUMMARY ALTA, GOV T LAND TRANSACTIONS (Continued from Page Five)

PETROLEUM AND NATURAL GAS PERMITS TERMINATED - NIL  
PETROLEUM AND NATURAL GAS RESERVATIONS ISSUED - NIL

Muskeg Oil Company

No	TwpRge	Mer	Ac.es.
674L	53 5	5	15 360

PROGNOSIS AND PROGRAM

Aquitaine Kaskattama #1

<u>Location</u>	Latitude	57° 2' 45"
	Longitude	90° 04' 00"
<u>Hole Sizes</u>	Surface Hole	8-3/4"
	Main Hole	4-3/4" to 2000+
		2-15/16" 2000 to T D
<u>Elevation</u>	Ground	20' (estimate)
	K B	30' (estimate)

PROGNOSIS

	<u>Depth</u>	<u>Subsea</u>
Spua - drift		
Cretaceous	30'	
Devonian	400'	-370'
Bituminous shales		
Carbonate (some Caverno )		
Sandstones & conglomerate		
at base		
Silurian		
Dolomitic limestone in part	2050'	-2020'
sandy		
Coral reef horizon (60' est )		
Sandy dolomitic limestone		
Ordovician		
Very fine, micro-crypto	2950'	-2920'
crystalline dolomites		
Sandstones at base (20' est )	4480'	-4450'
Basement	4500'	-4470'
TOTAL DEPTH	4520'	-4490'

PROGRAM

1	<u>Samples</u>	
	Manitoba Mines Branch	1 set of 10 foot from surface to T.D
	Aquitaine	1 set of 10 foot from surface to T D
	Banff	catch and wash 2 sets of 5 foot samples

2 Mud Program

0-400+	Surface Hole - gel water slurry
400-2000+	Ligno Sulphonate mud    Water loss 4-5 cc
2000-T D	Ligno sulphonate mud    Water loss 4 cc maximum

3 Casing

6-5/8" to 400<sub>+</sub>, cement to surface  
 3-1/2" flush joint intermediate casing to 2000<sub>+</sub>, cement to surface

4 Coring and Testing

Special cores may be taken above intermediate casing on the basis of hydrocarbon shows from samples and tests  
 Core continuous below intermediate casing to T D  
 Drill stem test the first 10' of all porous horizons encountered

5 Logging

Run #1	at 400 <sub>+</sub>	Electric Log
		Gamma Ray Log
		Neutron Log
		Non-Calibrated Density Log
		Caliper Log
Run #2	at 2000 <sub>+</sub>	Same as above
Run #3	at T D	Same as above

## 6 Run a Velocity Survey

July 28, 1966

A.J Brinker

*Don't to offically open  
to report.*



Province of Manitoba  
Department of Mines, Resources and Environmental Management  
Mineral Resources Division

Petroleum Branch  
Telephone (204) 633 9543  
989 Century Street  
Winnipeg Manitoba  
R3H 0W4

November 4, 1977

Aquitaine Company of Canada Ltd.  
2000 Aquitaine Tower  
540 - 5th Avenue S. W.  
Calgary, Alberta  
T2P 0M4

Attention Mr. R. Amberg  
Chief Geophysicist

Dear Sir:

Re: Sogepet Aquit Kaskattama - Velocity Survey

We acknowledge with thanks receipt of your letter dated November 2, 1977 together with the enclosed material, namely the following

1. Sonic log - Sogepet Aquit Kaskattama Prov. No. 1
2. Report of a Geophysical Refraction Program and well velocity survey - Sogepet Aquit Kaskattama
3. Synthetic trace report with enclosures 1 - 7.

Please find enclosed the transmittal letter.

Your co-operation is greatly appreciated.

Yours sincerely,

Original Signed by H. C. Moster

H. C. Moster, P. Eng.,  
Director, Petroleum Branch.

WG/et  
Encl.

b.c. Sogepet Aquit Kaskattama Well File ←

AQUITAINE COMPANY OF CANADA LTD

2000 AQUITAINE TOWER 50 FLOOR  
PHONE 911 AREA CODE 403 TELE 010 7649 EXT 4100 CALLES PETRA CALGARY  
CALGARY ALBERTA CANADA  
T2P 0M4

November 2, 1977

Province of Manitoba  
Department of Mines, Resources  
and Environmental Management  
Mineral Resources Division  
989 Century Street  
Winnipeg, Manitoba R3H 0M4

Attention Mr. H.C. Moster  
Director, Petroleum Branch

Dear Mr Moster,

Re: SOGEPET AQUIT. KASKATTAMA  
VELOCITY SURVEY

In reference to your letter of October 12, 1977, we are sending you the data requested for the above mentioned survey. Enclosed please find

- Sonic Log - Sogepet Aquit Kaskattama Prov No. 1
- Report of a Geophysical Refraction Program and Well Velocity Survey Sogepet Aquit Kaskattama
- Synthetic Trace Report with Enclosures 1, 2, 3, 4, 5, 6, 7

We hope that this will enable you to complete your files.

Yours very truly,

AQUITAINE COMPANY OF CANADA LTD.



R. Amberg  
Chief Geophysicist

JPG/ah

THE ABOVE DATA RECEIVED THIS 3 DAY OF

November, 1977

By



Please sign and return one copy.



Province of Manitoba

Department of Mines, Resources and Environmental Management

Mineral Resources Division

Petroleum Branch  
Telephone (204) 633 9543  
989 Century Street  
Winnipeg Manitoba  
R3H 0W4

October 12, 1977

Aquitaine Company of Canada Ltd.  
2000 Aquitaine Tower  
540 - 5th Avenue S. W.  
Calgary, Alberta  
T2P 0M4

Attention Mr. R. Amberg  
Chief Geophysicist

Dear Sir

Re: Velocity Survey  
Sogepet Aquit Kaskattama

We acknowledge receipt of your letter dated October 5, 1977 together with the enclosed velocity calculation sheet.

It would be appreciated if you could also send us the following information, if available, to permit us to complete our files on the subject well:

1. Operational statistics
2. Index map
3. Elevation corrections
4. Near surface velocity data
5. Velocity test records
6. Near surface velocity records
7. Near surface velocity graph
8. Velocity calculation sheet
9. Well velocity graph
10. Sonic log - geophone survey calibration computations & deviation graph
11. Calibrated sonic log
12. Digital velocity data analysis
13. Digital synthetic - initial response record

Your anticipated co-operation is appreciated.

Yours sincerely,

Original Signed by H C Mosier

H. C. Mosier, P. Eng.,  
Director, Petroleum Branch.

WG/et

b.c. Well File Sogepet Aquit Kaskattama ←



AQUITAINE COMPANY OF CANADA LTD

2000 AQUITAINE TO ER 540 5 A 1 JFN 5  
PHONE 267 9111 AREA CODE 403 TELFX 9 8 2 6 4 9 PETRAKILCOY CALLES DE NA 1 CALCANY  
CALGARY ALBERTA CANADA  
T2E 0 4

October 5, 1977

Province of Manitoba  
Department of Mines, Resources and Environmental Management  
Mineral Resources Division  
989 Century Street  
Winnipeg, Manitoba R3H 0W4

Attention Mr H. C. Moster, Director, Petroleum Branch

Dear Mr. Moster:

RE: SDGEPET AQUIT K'SKATTAMA - Velocity Survey

In reference to your letter of September 16, 1977, we are sending you the data requested for the above mentioned survey. Enclosed is the down hole velocity and continuous velocity information.

We hope that this will enable you to complete your files.

Yours truly,

AQUITAINE COMPANY OF CANADA LTD

JPG/cb

R. Amberg  
Chief Geophysicist

*velocity calculation sheet was*  
The ~~above material~~ received this 7<sup>th</sup> day of October, 1977

By: H. C. Moster

KASKATAMA #1

From	To	
	2900 5	(Box 83) Limestone, massive
2900 5	2907 6	Argillaceous shale, broken up, minor pyrite crystals, some fossils
2907 6	2910	Less argillaceous than above
2910 0	2910 5	Arkose c gr
	2910 5	Start of PC basement
2910 5	2916 5	Basic gneiss (Hb & Bt) moderately weathered, foliation at 70° to CL
2916 5	2919	Fresh Hb-Bt gneiss Foliation at 70° to CL
2919	2920	Core missing
2920	2921	As above Hb-Bt gneiss At 2900 3/4" pegmatite vein at 90° to CL turns parallel to CL for next 6"
2921	2922 6	Core missing
2922 6	2927 6	As above Hb-Bt gneiss at 2924' minor KF healing tension cracks At 2926' about 4" of kaolinized and saussuritized material at 90° to CL next 6" is basic gneiss but slightly saussuritized
2927 6	2928 3	Only 1/2" fragment of core in this box looks cf 2926'
2928 3	2930	No core
2930	2933	Only 6" of core at 2932' This is more siliceous Hb-Bt gneiss Fol at 70° to CL Also 1/2" piece of pegmatite core
2933	2934	Hb-Bt gneiss. A 1/4" saussuritized vein at 90° to CL
2934	2935 5	As above, only 6" of core in this box
2935 5	2936 2	Hb-Bt gneiss as above 1/2" saussuritized at 90° to CL at 2935 7
2936 2	2937	Micro pegmatite at 45° to CL Minor tension cracks parallel to foliation (viz 80°) healed with hematite
2937	2938 5	Mafic gneiss fol at 80° to CL last 2" saussuritized
2938 5	2940 5	Micro pegmatite
	2940 5	End of core (Box 84)

SOGEPET AQUITAINE KASKATTAMA PROV.#1 WELL

---

NOTICE OF RESUMING DRILLING

- Location Lat. 57° 04' 18.487" - Long. 90° 10' 29.408"
- Operations to be commenced on or about June 20, 1967
- Operations to be completed about August 25, 1967
- Purpose and nature of the work

To resume drilling on Kaskattama well, from the present total depth (2880') to the basement. The expected total depth is 3500'.

- Area on SOGEPET onshore permit No 8 (Manitoba).
- Equipment Modified falling 1500 from Big Indian Drilling Co.
- Person in charge of the work

R.T. RUSSEL, operations foreman, from BANFF OIL LTD (Calgary)

- Number of persons to be employed

10 approximately.

R. Bonafoux,  
Chief Geologist.

Copy to Dept Labor  
(Morgue June 1/67)

R. Bonafoux

COPY

XXXXXX  
XXXXXXXXXX

April 2, 1969.

Mr. W. D. Clarke,  
Aquitaine Company of Canada Ltd.,  
1300 Calgary House,  
550-6th Ave. S.W.,  
Calgary, Alberta.

(P)

DEPARTMENT OF MINES  
& NATURAL RESOURCES  
APR 2 1969  
DIRECTOR OF MINES

Dear Mr. Clarke:

Re. Age Determinations; Kaskattama  
Prov. No. 1 Well

Enclosed are the results of age determinations on basement  
cores from the Kaskattama and Houston wells.

The indicated age,  $1975 \pm 45$  m.y. is typical of the Churchill  
Province. (The  $\pm$  here is the 95% confidence interval, approximately  
2 standard deviations). Generally Rb-Sr results are about 5% higher  
than corresponding K-Ar ages because of the decay constant used. One  
of the advantages of the whole rock Rb-Sr method is the possibility of  
inference of the genetic origin of the rocks based on the value of the  
initial Sr composition. Thus in this work the low value for the  
initial  $^{87}\text{Sr}/^{86}\text{Sr}$ ,  $0.7018 \pm 0.0005$ , points to a deep crustal source  
for the material and precludes the possibility of the age determinations  
registering a metamorphic event. In contrast K-Ar ages on minerals  
register the last event.

I am most grateful for the permission to publish these results  
and hope they are of practical significance to your organization.

Yours very truly,

A. Turek  
Geologist

AT/hf

Encl:

c.c. to Mr. J. S. Roper /  
Director of Mines

# COPY

XXXXXX  
XXXXXX

March 18, 1969.

Mr. A. E. Whitehead,  
President,  
Houston Oils Ltd.,  
1690 Elveden House,  
Calgary 2, Alberta.

Dear Mr. Whitehead:

Enclosed are the results of age determinations on basement cores from the Kaskattama and Houston wells.

The indicated age,  $1975 \pm m.y.$  is typical of the Churchill Province. (The  $\pm$  here is the 95% confidence interval, approximately 2 standard deviations). Generally Rb-Sr results are about 5% higher than corresponding K-Ar ages because of the decay constant used. One of the advantages of the whole rock Rb-Sr method is the possibility of inference of the genetic origin of the rocks based on the value of the initial Sr composition. Thus in this work the low value for the initial  $^{87}\text{Sr}/^{86}\text{Sr}$ ,  $0.7018 \pm 0.0005$ , points to a deep crustal source for the material and precludes the possibility of the age determinations registering a metamorphic event. In contrast K-Ar ages on minerals register the last event.

I am most grateful for the permission to publish these results and hope they are of practical significance to your organisation.

Yours very truly,

*A. Turek*  
A. Turek  
Geologist

AT/hf

Encl.

c.c. to Mr. J. S. Roper  
Director of Mines

Orig. with report on: Oil and Nat. Gas  
Permits -  
Manitoba Explor.  
Permit Nos. 1 to  
Aquitaine Compai  
of Canada Ltd.

J. S. Roper  
XXXXXXXXXX

March 13, 1969

Dr. Franc. R. Joubin,  
President,  
Sogepet Ltd.,  
418-170 Bloor St. West,  
Toronto 5, Ontario.

Dear Dr. Joubin

Re. Kaskattama Prov. #1 Well

Further to your letter of March 10th we wish to record our sincere thanks to the Aquitaine-Sogepet Group for authorization to publish age determination results on the basement core from the Kaskattama well.

The results for eight samples from both the Kaskattama and Houston wells are typical of the Churchill Province, 1975 m.y., which indicate that the Churchill-Superior boundary must have an easterly trend under the Paleozoic cover in the Hudson Bay Lowlands and therefore the alternative suggestion, a northeasterly trend connecting with the Ungava Peninsula should be disregarded. Dr. Turek, of this department, is writing up the results and will report to you in more detail in about a week.

Cordially yours,



J. S. Roper,  
Director of Mines

AT/hf

**SOGEPET LIMITED**  
SOCIÉTÉ GÉNÉRALE DES PÉTROLES

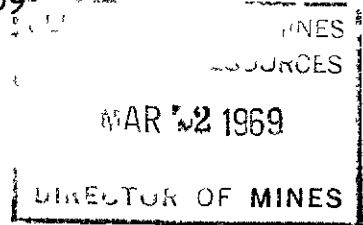
*agreement file*

SUITE 418  
170 BLOOR STREET WEST  
TORONTO 5 ONTARIO

TELEPHONE 927 1966

March 10, 1969

Mr J. S. Roper  
Director of Mines D  
Department of Mines & Natural Resources  
901 Norquay Building  
401 York Avenue  
Winnipeg 1, Manitoba



Re. Kaskattama Prov. # 1 Well

Dear Mr. Roper,

Your letter of February 24th on the above subject, properly addressed to Aquitaine, our Group Operator, was referred, sometime ago, by them to me for this Company's compliance with your request. This was promptly done since we share with your Department the sense of public importance in more precisely positioning the Churchill-Superior boundary.

It was precisely for the latter reason that this well was drilled into the "basement" to provide material for age determination data, a proposal readily agreed to by Aquitaine who later succeeded us as Group Operator.

If any bibliographical reference is made to the above well, it would be much appreciated if credit is given to the "Aquitaine-Sogepet Group" or (more historically accurate) the Sogepet-Aquitaine Group.

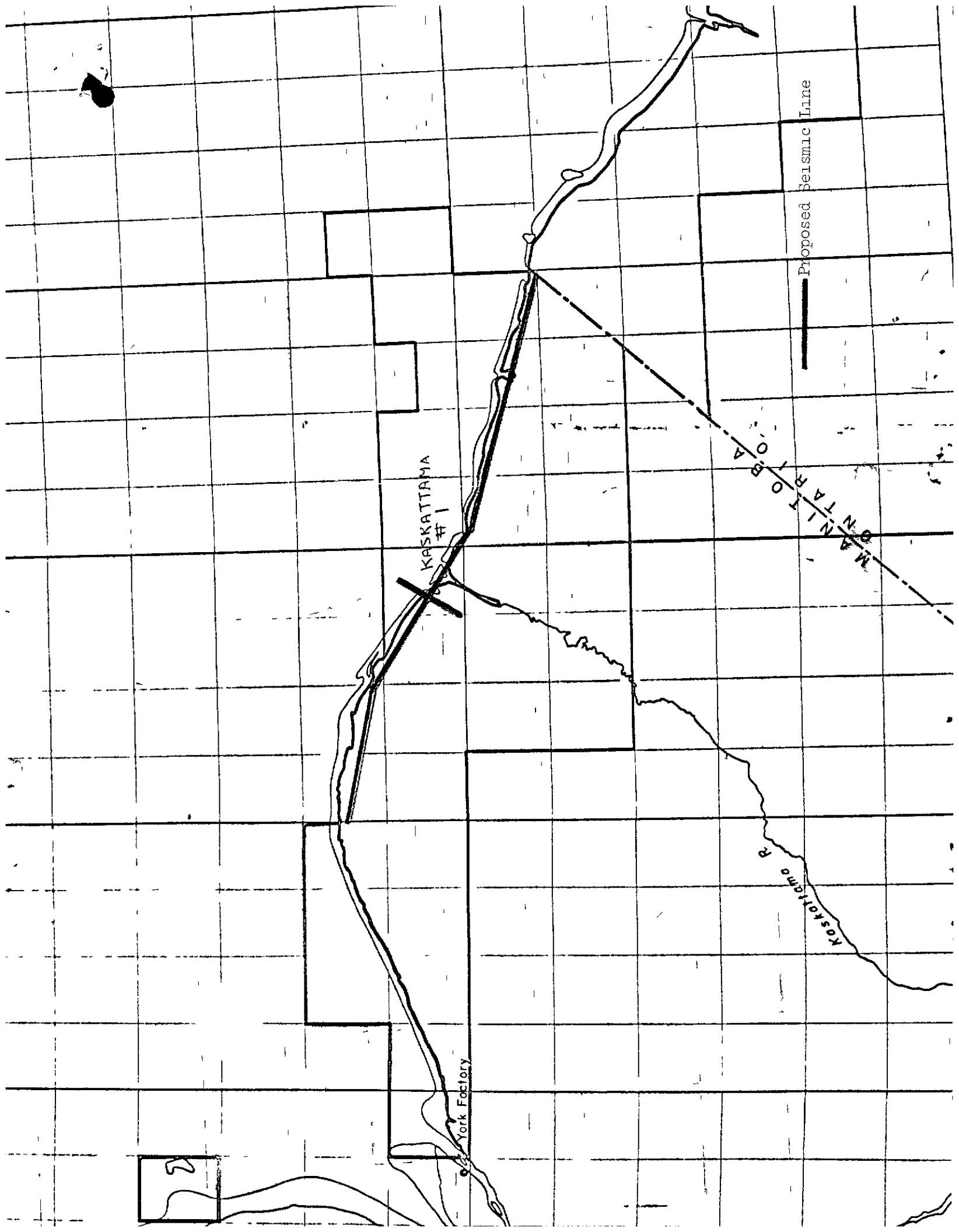
We look forward with interest to the appearance of your Department's paper on the Churchill-Superior boundary question

With kind personal regards,

Yours very truly,

SOGEPET LIMITED

*Franc. R. Joubin*  
Franc. R. Joubin  
President



KASKATTAMA #1

Kaskattama R.

MANTANIBOIA

York Factory

Proposed Seismic Line

2



AQUITAINE COMPANY OF CANADA LTD

1300 CALGARY HOUSE 550 6TH AVENUE S W

PHONE 263 3916 AREA CODE 403 TELEX 038 2349 P-TRAKI CGY CABLES PETPAKI CALGARY

CALGARY ALBERTA CANADA

ACC/2930  
RB/ca

November 7th, 1967

DEPARTMENT OF MINES AND NATURAL  
RESOURCES  
MINES BRANCH  
901 Norquay Building  
401 York Avenue  
WINNIPEG 1,  
Manitoba

Attention Mr J S RICHARDS,  
Director of Mines

Dear Mr Richaras

Re SOGEPET AQUITAINE KASKATTAMA #1

We thank you for your letter dated November 1st, 1967 granting us permission of sending the fossil samples from Kaskattama #1 to Dr. B S Norford of the G S C in Calgary for permanent storage

Regarding the core and sample descriptions for the 1966 drilling (0 - 2880'), we endeavour to send you a set of the first part of the wellsite geological & engineering summary

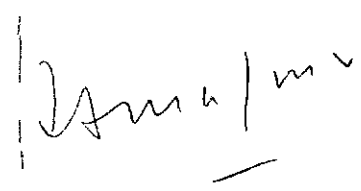
Any further information such as petrographical descriptions and paleontological studies will be forwarded to you when available

Yours very truly,

R Bonafoux,  
Hudson Bay District Manager

Encl 3 reports

p. c. to: **Dr. K. A. Phillips,**  
**Chief Geologist.**  
**Mr. F. S. Gamey, Reservoir Engineer.**



November 1, 1967.

Mr. R. Bonafoux,  
Hudson Bay District Manager,  
Aquitaine Company of Canada Ltd.,  
1300 Calgary House,  
550-6th Avenue S.W.,  
Calgary, Alberta.

Dear Mr. Bonafoux:

Re: Sogepet Aquitaine Kaskattama No. 1

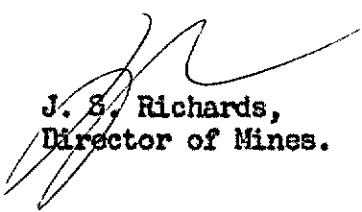
This will acknowledge receipt, in triplicate, of the following:

- Wellsite Geological and Engineering Summary, Supplement, 1967
- Logs: Induction Electrical  
Electrical  
Temperature log Run No. 1  
Temperature log Run No. 2  
Through Tubing Caliper  
Gamma Ray - Neutron  
Sonic
- Palaeontology of the Sogepet Aquitaine Kaskattama No. 1 well - by S. J. Nelson

The only information lacking for the Kaskattama hole is a set of core and sample descriptions for the 1966 drilling (i.e. 0' - 2880'). Inasmuch as a considerable portion of the core has been removed for palaeontological examination, and the core badly broken up in the process, detailed core descriptions are especially important. Any further information such as petrographic descriptions would also be most useful. Once the core descriptions have been submitted, all required data for the well, except for the final results of the palaeontologic studies, will have been received.

With regard to your letter of October 19 regarding disposition of the core samples for the Kaskattama well, we are in complete agreement with your suggestion of sending the fossil samples to Dr. B. S. Norford of the G. S. C. at Calgary, for permanent storage. As for the remainder of the core, we will expect to receive this in December, after Dr. Sanford has completed his examination.

Yours very truly,



J. S. Richards,  
Director of Mines.

JSR/hf

c.c.: Mr. F. S. Gamey,  
Petroleum Engineering Div.  
Dr. K. A. Phillips,  
Geology Div.

COPY

SOGEPET AQUIT KASKATTAMA PROV #1

ABANDONMENT PROGRAM

<u>Cement Plug #</u>	<u>Interval</u>	<u>Sax</u>	<u>Gr Cl<sub>2</sub></u>	<u>Displacement</u>	<u>In Place @</u>
1.	2940'-2840'	6 Portland	-	13 Barrels	1345 Hrs. July 14, 1967
2.	1900'-1500'	24 Portland	2%	7 Barrels	1700 Hrs. July 14, 1967
<p>Top of Plug #2 Found @ 1310', 0930 Hrs. July 15, 1967. Well commenced to flow water, 1415 Hrs. July 15, 1967. Cement reached surface @ 1430 Hrs. Closed blind rams and squeezed formation to 900 Psi. Put away 2 1/4 bbl. fluid over a 2 hr. period. Opened blind rams - well did not flow.</p>					
3.	1250'-1000'	14 Portland	1%	4 Barrels	2100 Hrs. July 15, 1967
<p>Felt Plug #3 @ 970' - 0330 Hrs. July 16, 1967</p>					
4.	60' - Surface	8 Portland	-	-	2200 Hrs. July 15, 1967
<p>Installed bolted flange, 2" valve and 8' riser on well. Rtg released 2400 Hrs. July 15, 1967</p>					

Hole Diameter

3 1/2" Casing Set at 1729'

2-5/16" Hole - Total Depth 2941'



PROVINCE OF MANITOBA

**MINES BRANCH**

APPLICATION TO } } A WELL

~~SUSPEND DRILLING~~  
~~RESUME DRILLING~~  
~~RECONDITION~~  
~~PLUG BACK~~  
~~SUSPEND PRODUCTION~~  
~~ABANDON~~

(Stroke Out Operations Which Do Not Apply)

Approval is hereby applied for as required by the Regulations under The Mines Act' R S M 1954, Cap 166, of the following operations to be commenced on or about

the 15th day of July 19 67 on the well known as Bogeret Aquit

Kookattama Prov. #1

located on Lsd' Latitude 57° 04' 15.487' N Longitude 100° 10' 25.408' W MTP MGP MGP MGP

being on Lease No standing in the name of

**CASING RECORD**

	Size O D	Weight	Amount	Set	Sacks Cement	Method
1st String	7"	23#	10 Joints	327'	65	Cement Unit
2nd String	3-1/2"	8.7#	170 Joints	1732'	248	Cement Unit
3rd String						

**CONDITION OF WELL (Depths)**

Total Depth of Well 241

Perforations From N/A TO N/A

Open Hole 120' TO N/A

Name of Producing Zone N/A

Date of last production N/A

Date of last production test N/A GOR N/A

WOR N/A Daily Production N/A

Reason for Operations Proposed Dryhole

OUTLINE OF OPERATIONS PROPOSED (Showing proposed plugs, and whether or not casing is to be pulled, if Plug Back show new interval to be perforated)

Abandonment program and formation tops sent to Mr. G.E. Johanson by letter dated August 18, 1967.

Operations to be carried out by Big Indian Drilling

Responsible agent in field R.T. Russell

Responsible agent, Co office R. Schwab

Signed by *R.T. Russell*

Company Banff Oil Ltd at Calgary

Address 1318 - 9th Ave. S.E. Calgary, Alta. Churchill, Manitoba.

Address 550 - 6th Ave. S.W., Calgary, Alta.

Title Operating Foreman

this 27th day of September 19 67

**APPROVAL**

This application has been examined and programme of operations approved, subject to the following conditions

Approved Original Signature

Date SEP 29 1967 19

Director of Mines

Petroleum Engineering Division

FORMS TO BE PREPARED IN QUADRUPPLICATE AND FORWARDED TO THE DIRECTOR OF MINES



PROVINCE OF MANITOBA

MINES BRANCH

APPLICATION TO [SUSPEND DRILLING, RESUME DRILLING, RECONDITION, PLUG BACK, SUSPEND PRODUCTION, ABANDON] A WELL

(Stroke Out Operations Which Do Not Apply)

Approval is hereby applied for as required by the Regulations under 'The Mines Act R S M 1954, Cap 166, of the following operations to be commenced on or about

the 20 day of June 1967, on the well known as Sogepet

Aquit. Kaskattama Prov #1 Latitude 57° 02' 45" Longitude 94° 04' 00" located on ... being on Lease No ... standing in the name of ...

CASING RECORD

Table with 7 columns: Size O D, Weight, Amount, Set, Sacks Cement, Method. Rows include 1st String (7", 23#, 10 Joints, 327', 65, Cement Unit), 2nd String (3-1/2", 8.6#, 170 Joints, 1732', 248, Cement Unit), 3rd String.

CONDITION OF WELL (Depths)

Total Depth of Well 2880', Perforations From -- TO --, Open Hole 1148' TO --, Name of Producing Zone --, Date of last production --, Date of last production test -- G O R --, W O R -- Daily Production --, Reason for Operations Proposed Sub-zero weather forced suspension of this operation. Proposed recommencement relative to milder weather.

OUTLINE OF OPERATIONS PROPOSED (Showing proposed plugs, and whether or not casing is to be pulled, if Plug Back show new interval to be perforated)

To drill out cement plugs and continue drilling and coring to the Pre-Cambrian

Operations to be carried out by Big Indian Drilling Co. Address 1318-Ninth Avenue S.E., CALGARY, Alberta. Responsible agent in field R.T. Russell Ltd Address Churchill, Manitoba. Responsible agent, Co-office R. Schwab Address 550-Sixth Avenue S.W., CALGARY, Alberta. Signed by [Signature] Title Operations Foreman. Company BANFF OIL LTD. at CALGARY this 19 day of April, 1967

APPROVAL

This application has been examined and programme of operations approved, subject to the following conditions

Approved

Original Signed by J S RICHARDS

Director of Mines

Date

APR 28 1967

19

[Signature] Petroleum Engineering Division

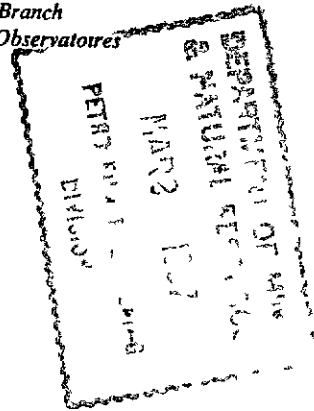


Department of Energy, Mines and Resources  
 Ministère de l'Énergie, des Mines et des Ressources

Observatories Branch  
 Direction des Observatoires

File Number  
 N° à rappeler

Ottawa 3, Ontario  
 February 27, 1967



Banff Oil Ltd.  
 550 Sixth Avenue, SW  
 Calgary, Alberta

ATTENTION: Mr. Robert Schwab  
Operations Superintendent

Dear Sir:

Thank you for your letter of 1st February concerning the possibility of temperature measurements in your well "Sogepet Aquit Kaskattama Prov. No. 1".

We appreciate very much your willingness to cooperate with us, but owing to the condition of the hole it seems that we are unlikely to obtain enough data to justify the expense to both you and us.

It is impossible for us to obtain satisfactory temperature measurements in a moving fluid column. If, as you anticipate, the fluid above a depth of 2300 ft. begins to rise, the temperature at any single point will increase slowly. We might make rough corrections for that if it were not for the fact that fluid velocity will be greater in the centre of the column than at the edges. Because of this, we would only be able to obtain good temperature readings in about 500 ft. of depth below the 2300 ft. point. Since there is probably very little core in this section, we would be dependent on rock chips for thermal conductivity measurements, and this depends on measurement techniques as yet undeveloped.

In addition to the technical considerations, we would have to allocate a two-man crew to travel to the site in time to make the measurements whenever the opportunity should arise. This might involve some waiting, and would tie up men and equipment in the middle of our field season, which is already crowded.

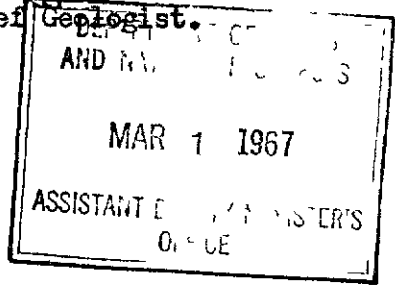
Although we would have been very pleased to visit the hole and make our measurements if the chances of success had been good, we feel that on this occasion our efforts and the expense to you of holding up your rig for us would not be justified. We are very grateful to you for your very kind offer, and if you have any future operations in the area which might be suitable for us, we would be very pleased to hear of them.

p. c. to: Mr. F. S. Gamey, Reservoir Engineer.  
 Mr. T. Morgan, Chief Mining Recorder.  
 Dr. J. F. Davies, Chief Geologist.

Yours faithfully,

Alan M. Jessop  
 Division of Seismology

AMJ:lt  
 cc: Mr. M. J. Gobert





Field Permit #8

Original Drilling License No 2168

PROVINCE OF MANITOBA

## MINES BRANCH

APPLICATION TO

{  
 SUSPEND DRILLING  
 RESUME DRILLING  
 RECONDITION  
 PLUG BACK  
 SUSPEND PRODUCTION  
 ABANDON  
 } A WELL

(Stroke Out Operations Which Do Not Apply)

Approval is hereby applied for as required by the Regulations under 'The Mines Act R S M 1954, Cap 166, of the following operations to be commenced on or about

the 17 day of December 1966 on the well known as Sogepet Aquit

Kaskattama Prov. #1  
 located on ~~133~~ Latitude 57° 02' 45" Longitude 94° 04' 00" ~~133~~ ~~133~~ ~~133~~ ~~133~~  
 being on Lease No -- standing in the name of --

## CASING RECORD

	Size O D	Weight	Amount	Set	Sacks Cement	Method
1st String	7"	23 #	10 Joints	327'	65	Cement Unit
2nd String	3-1/2"	8 7 #	170 Joints	1732'	248	Cement Unit
3rd String						

## CONDITION OF WELL (Depths)

Total Depth of Well 2880'  
 Perforations From -- TO  
 Open Hole 1148' TO  
 Name of Producing Zone --  
 Date of last production --  
 Date of last production test --  
 W O R -- Daily Production --  
 Reason for Operations Proposed Extreme sub-zero weather conditions forced suspension until summer of 1967.

OUTLINE OF OPERATIONS PROPOSED (Showing proposed plugs and whether or not casing is to be pulled, if Plug Back show new interval to be perforated)

A 50' Cement Plug at T.D.

A 100' Cement Plug over the bottom of the 3-1/2" Casing - Interval 1780'-1680'  
 feel in 48 hours

Operations to be carried out by Big Indian Drilling Co. Address 1318-Ninth Avenue S.E., CALGARY, Alberta  
 Responsible agent in field R.T. Russell Ltd. Address Churchill, Manitoba  
 Responsible agent, Co. office R. Scowab Address 550-Sixth Avenue S.W., CALGARY, Alberta  
 Signed by *R. Russell* Title Operations Foreman  
 Company BANFF OIL LTD. at CALGARY this 27 day of January 1967

## APPROVAL

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

Approved Original Signed by  
 J. S. RICHARDS

Date

FEB 13 1967

19

Director of Mines

Petroleum Engineering Division

FORMS TO BE PREPARED IN QUADRUPPLICATE AND FORWARDED TO THE DIRECTOR OF MINES



INTER DEPARTMENTAL MEMORANDUM



FROM F. W. Stewart,  
 Departmental Accountant,  
 Dept. of Mines & Natural Resources

DATE February 22nd, 1967.

TO Mr. T. Morgan,  
 Chief Mining Recorder.

SUBJECT Sogepet Limited, Toronto, Ontario.

This is to advise that the following described bonds have been released and returned direct to F. R. Joubin, in c/o Messrs. Thompson, Dilts, Jones & Co., Winnipeg, as per your memo of February 22nd, 1967.

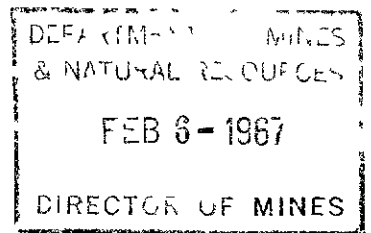
<u>Series</u>	<u>Serial Nos.</u>	<u>Amount</u>	<u>Interest</u>	<u>Maturing</u>
T.13	D14672-3 inc.	\$50,000.00 (2 x \$25,000)	3½%	Oct. 1/79
	C18814-17 inc.	\$20,000.00 (4 x \$5,000)		
		<hr/> \$70,000.00 <hr/>		

*F. W. Stewart*  
 Departmental Accountant.

# BANFF OIL LTD.

550 SIXTH AVENUE S W  
TELEPHONE 269 6901

CALGARY ALBERTA CANADA  
TELEX 038 2791



February 1st, 1967.

Mr. J. S. Richards,  
Director,  
Department of Mines & Natural Resources,  
Government of Manitoba,  
Winnipeg,  
Manitoba.

Dear Sir

Re: Sogepet Aquitaine Kaskattama #1

Drilling operations on the Kaskattama #1 test well have recently been suspended at a depth of 2380'. Approximately 1800' of core was recovered from this test during these operations. The cored section is presently undergoing extensive geological examination in Calgary, which should be completed in a few weeks.

However, as the information from this test well is very pertinent to further exploratory work in Hudson Bay and its environs, Banff Oil, as operator for Aquitaine Company of Canada, would like permission to cut the cored section in half and send one half to Aquitaine's research laboratories in Pau, France, for additional studies. The remaining half of the core would, of course, be forwarded to the Manitoba Department of Mines and Natural Resources on completion of the studies being conducted here in Calgary.

If permission is granted for removal, the results of these additional studies, which will probably include micro-palaeontological and geochemical examination, will be transmitted in confidence to your Department.

Yours truly,

BANFF OIL LTD.



W. W. Taylor  
for M. E. Hriskevich  
Exploration Manager

**p. c. to: Dr. H.R. McCabe,  
Geologist.**

WWT rd

# BANFF OIL LTD.

550 SIXTH AVENUE SW  
TELEPHONE 269 6901

CALGARY ALBERTA CANADA  
TELEX 038 2791

January 31, 1967

File Sogepet Aquit Kaskattama  
Prov #1

Re Suspension of Drilling

Director of Mines  
Department of Mines & Natural Resources  
Mines Branch  
901 Norquay Building  
401 York Avenue  
WINNIPEG 1, Manitoba

Attention Mr J S Richards

Dear Sir

Further to your letter dated January 9, 1967, attached are the completed forms of the Application to Suspend Drilling Operations at the subject well. Also attached is a summary of the operations immediately prior to suspension.

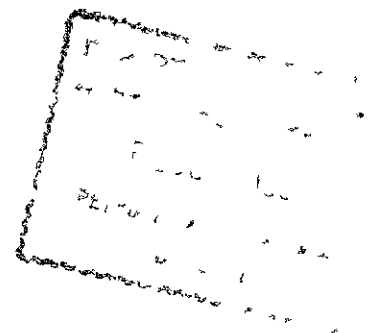
Please accept our apologies for not notifying your Department in advance of such intended suspension. Extreme sub-zero weather conditions together with inadequate communications forced an early suspension of operations until mid-June, 1967.

Yours very truly,

BANFF OIL LTD

*for*  
*R. Schwab*  
Robert Schwab  
Operations Superintendent

RTM jg  
Attach



FEB 13 1967

SUMMARY OF OPERATIONS PRIOR TO SUSPENSION OF DRILLING

Sogepet Aquit Kaskattama Prov #1

The total depth of 2880' was reached at 08 00 hours on December 12, 1966, when a 3' core was cut in order to recover a 5' section of an Eastman survey barrel that was dropped in the hole during logging operations

The drill pipe was run back in the hole "open-ended" to bottom and the mud was conditioned to a reported 10 0-10 1# range. On December 13, 1966, cement plug #1 was batch mixed and displaced to cover the interval 1880'-1830'. This plug consisted of six sacks of neat portland cement at 15# per gallon slurry in place at 15 35 hours. The drill pipe was pulled out of the hole to 1780'. Cement plug #2 was batch mixed and displaced to cover the interval 1780'-1680'. This plug consisted of twelve sacks of neat portland cement at 15# per gallon slurry in place at 19 15 hours. The pipe was pulled out and the hole was then filled with diesel oil. After the hole was filled, it was noticed that the well started to flow water at approximately 5 gallons per minute. The crew tried to close the Shaffer blind rams, but they were frozen open and were not thawed out and closed until 07 00 hours December 14 1966. The blowout preventers were thawed out by placing fire pots of diesel oil around them and kept burning throughout the night. When the blind rams were closed, the cement had filled the blowout preventers and run into the flowline. Approximately 50% of the plug stayed in the casing. The cement in the casing was dug out to 28' K B. The casing was then filled with twenty-five gallons diesel oil and the bonnet was bolted on the casing bowl.

The valve on the annulus was opened and it was found not to be on vacuum or under pressure. Diesel oil was then pumped in and thirty gallons filled the annulus.

RTR RTM/jg

PS 153

# COPY

January 24, 1967.

Mr. W. D. Clark,  
Aquitaine Company of Canada Ltd.,  
1300 Calgary House,  
550 - 6 Avenue, S. W.,  
Calgary,  
Alberta.

Dear Mr. Clark:

This will acknowledge your letter of January 10th, enclosing a statutory declaration verifying expenditures in the amount of \$207,898.17, incurred in drilling the Sogepet Aquitaine Kaskattama No. 1 well.


We see no provision for deferring the establishment of the double credit, in the Regulations, nor, in fact, any advantage in doing so. This is to advise that a double credit is hereby established in the amount of \$415,796.34.

As requested, \$59,850.56 of this credit is applied to Permit Nos. 1 to 12, and in respect of the period expiring October 17, 1966; and \$147,833.40 to work commitments for the period October 17, 1966, to October 17, 1967.

This leaves an established credit in the amount of \$208,112.38, which may be applied to the work commitments in respect of Permit Nos. 1 to 19 and Nos. 21 to 27, inclusive.

For our record purposes, would you kindly complete the enclosed Grouping Notice in duplicate, and return it, for signature, to this office.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR:db

Encs.

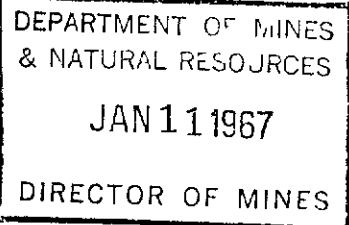
c. c. to Mr. T. Morgan, Chief Mining Recorder.  
Dr. J. F. Davies, Chief Geologist.

P. S.

You may keep one copy of the Grouping Notice if you so desire.

AQUITAINE COMPANY OF CANADA LTD

1300 CALGARY HOUSE 550 6TH AVENUE S W  
PHONE 263 3916 AREA CODE 403 TEL X 038 2349 P TRAKI CGY CABLES PETRAKI CALGARY  
CALGARY ALBERTA CANADA



ACC 1338  
WDC/cg

January 10, 1967.

Mr J. S. Richards  
Director of Mines  
Department of Mines and Natural Resources  
901 Norquay Bldg ,  
401 York Avenue  
Winnipeg 1, Manitoba.

Dear Mr. Richards:

re: Oil & Gas Exploratory Permits  
Nos. 1 to 12 inclusive

We enclose statutory Declaration verifying expenditures recorded to October 31, 1966 in the Drilling of the well Sogepet Aquitaine Kaskattama #1, located on permit #8, which has been grouped with captioned permits

The Kaskattama well has been suspended on December 17, 1966 at 2880 feet, principally for reasons of weather, which made further operations hazardous for personnel and equipment. Also, flying conditions were so uncertain that it was impossible to assure the personnel that help could be obtained in the event of emergency at the site.

Our present plan is to resume operations in the spring of 1967 and drill the well to basement. With this in mind much of the equipment has been left on site.

Since the well will probably be drilled deeper and since further costs in any event will be incurred or recorded, and since the present expenditures are sufficient to cover the minimum work required to be done during the current renewal period, we request that the matter of doubling the expenditures for work credits, be deferred until the status and ultimate cost of the well are determined next summer.

ACC 1338

We further request that the single credits established by the work done to October 31, 1966 be applied to permits 1 to 12 equally on an acreage basis, the totals being as follows

to work commitments remaining in respect of the period expiring October 17, 1966	\$ 59,850.56
to work commitments for the period October 17, 1966 to October 17, 1967 at 30¢ per acre (492,778 acres)	147,833.40
to reduction of deposits in succeeding periods	<u>214.21</u>
	<u>\$ 207,898 17</u>

For your information our present estimates of total cost of the well, as it stands, is at least \$300,000.00 and more if we include move-out of equipment presently on site.

We might also mention that in addition to completion of the Kaskattama well, we are currently planning an extensive seismic examination of our land permits in the area, to be performed in the winter of 1967 - 1968

Finally, subject to your approval of the expenditures submitted herewith, we request that the deposits currently posted with your department be released to Sogepet Limited.

Yours truly,  
AQUITAINE COMPANY OF CANADA LTD.



W D. Clark

WDC/cg

Enclosure

Orig. on: Aquitaine Company of Canada Ltd.

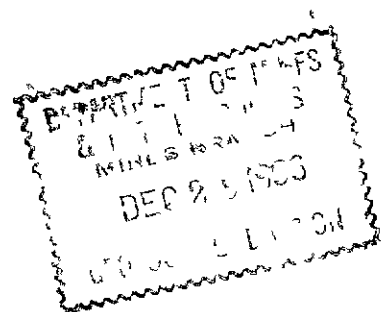
p. c. on: Sogepet Limited.

p. c. to: Mr. T. Morgan, Chief Mining Recorder. -- with Statutory Declaration.  
Dr. J. F. Davies, Chief Geologist.

# BANFF OIL LTD.

550 SIXTH AVENUE SW  
TELEPHONE 269 6901

CALGARY ALBERTA CANADA  
TELEX 038 2791



December 28, 1966

File W F

Re Sogepet Aquit  
Kaskattama Prov #1  
Sample Cuttings

Department of Mines and Natural Resources  
Mines Branch  
Geological Division  
90C Norquay Building  
401 - York Avenue  
Winnipeg, Manitoba

Attention Mr H R McCaee

Dear Sir

This has reference to your letter of December 12, 1966 concerning well cuttings from Sogepet Aquit Kaskattama Prov #1

This well was continuously cored from 1083' to total depth except for intervals 1246' - 1294', 1355' - 1368', 1456' - 1493' and 1563' - 1605' <sup>42</sup> <sup>13</sup> <sup>37</sup>

We are unable to provide samples for the drilled interval below 1083' as the cuttings did not reach surface because of lost circulation horizons above sampled intervals

Yours very truly,

BANFF OIL LTD

A J Brinker  
Senior Operations Engineer

AWJ/sml

*in addition to above intervals mentioned, the following also not cored & no sp. l.*

1368-1422 (3A)

1513-1543 (30')

1645-1636 (11)

1732-1744 (12')

Total m. core remaining = 227'

... ..



STATUTORY DECLARATION

CANADA  
PROVINCE OF ALBERTA

IN THE MATTER OF The Mines Act  
of the Province of Manitoba and  
the Regulations Issued Pursuant  
thereto

To Wit

AND IN THE MATTER OF Exploratory  
Permits Oil and Gas Rights, Nos  
1 to 12 inclusive

I, *Thomas Grandin*  
of the City of Calgary, in the Province of Alberta

DO SOLEMNLY DECLARE.

1. That I am a Chartered Accountant employed by Banff Oil Ltd. and as such have a personal knowledge of the matters hereinafter declared
2. That Banff Oil Ltd. is the operator of the Sogepet Aquitaine Kaskattama #1 well being drilled at a location in Oil and Gas Exploratory permit No. 8
3. That Banff Oil Ltd has as at October 31, 1966, paid out, and charged to Aquitaine Company of Canada Ltd., and has been reimbursed by Aquitaine Company of Canada Ltd. in respect of the drilling of the said well, the amounts shown on the Statement of Expenditures attached hereto as Exhibit "A" to this my Declaration
4. That all of the said expenditures are directly and exclusively related to the drilling of the said well.
5. That additional expenditures not shown on the said statement have been incurred but not processed and billed to the date hereof, and are not likely to be processed and billed prior to January 17, 1967

AND that I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Declared before me at the City of )  
Calgary, in the Province of Alberta )  
this 10<sup>th</sup> day of January, 1967 )  
)  
)

*Thomas Grandin*

*W. D. ...*  
A Notary Public in and for the  
Province of Alberta

This is Exhibit "A" to the  
Statutory Declaration of  
*Thomas Grandin*  
declared before me this 10<sup>th</sup> day  
of January, 1967

*W. S. Kearns*  
A Notary Public in and for the  
Province of Alberta.

BANFF OIL LTD  
Statement of Well Drilling Expenditures  
as at October 31, 1966.

Well Description

Sogepet Kaskattama

Location Costs	\$	2,507.09	
Day Work		14,578.20	
Other contractor charges		56,678.47	(see detail attached)
Camp		8,452.37	
Bits		10,390.05	
Mud and chemicals		9,188.10	
Cementing services		2,456.40	
Fishing tools and services		144.50	
Fuel and water		16,577.39	
Well surveys & Test services		4,765.60	
Casing		24,752.90	
Installation, welding & Sundry labour		700.81	
Other material and supplies		6,408.89	
Other services, supplies & Costs		136.63	
Company Labour		4,442.15	
Auto, travel and subsistence		5,497.19	
Freight, hauling and trucking		35,271.43	(see detail attached)
Insurance		50.00	

Total..... 207,898.17

wob

DETAIL OF "OTHER CONTRACTORS' CHARGES"

Lory Oilfield Rentals	\$	117.30
McCullough Tools - Rental of special tools and equipment		144.50
Eastman Oil Well Survey - Rental of Magnets		400.00
Big Indian Drilling - Rental of special tools and equipment		14,987.13
Lacey Construction - Unloading equipment and materials at C.N R		1,219.22
Wolfe Stevedores - Rental of fork lift		108.00
Wardair - Hauling equipment and supplies and men		37,609.45
Thenas Lamb - materials, personnel and groceries		1,150 00
National Harbour Board - Hardware supplies		<u>342.87</u>
	\$	56,078.47

DETAIL OF "TRANSPORTATION FREIGHT AND HAULING"

Midwest Aviation - Flying personnel in and out of Kaskattama to Churchill Rental of helicopter of aerial survey around Kaskattama. Hauling camp supplies and necessary equipment	\$	14,247.35
C N R. - Hauling contractors equipment from Calgary and other equipment as required during drilling		10,521 89
Lamb Airways - Charter of aircraft for surveying and reconnaissance, hauling of groceries, equipment and aviation fuel		3,744 02
Wardair - Hauling of spare parts and equipment		2,900.89
Air Canada - spare parts		121.68
Miscellaneous - Hauling of small equipment, spare parts, groceries etc.		<u>3,735.60</u>
	\$	35,271.43

December 12, 1966

F. S. Gamey

M. J. Gobert  
Asst. Deputy Minister

Sogepet Aquit Kaskattama Prov. #1

Dec. 12/66 - Preparations are being made to suspend the above well at a total depth of 2880'. A logging program was carried out to a total depth of 2877'.

The proposed suspension program is as follows:

1. Set 50' cement plug on bottom.
2. Set 100' cement plug over bottom of 3½" casing, to plug interval 1680' to 1780'.
3. Displace top 200' of hole to diesel oil.
4. Mount bonnet on wellhead with a 2" outlet and install 2" valve.
5. Leave wellhead valve closed and bull-plugged.
6. Grease wellhead to minimize corrosion.

cc: J. S. Richards

BANFF OIL LTD.

880 SIXTH AVENUE SW  
TEL: HONE 2616901

CALGARY ALBERTA CANADA  
TELEX C38 2731

1 copy

cc-18

OK

December 8 1966

File W F

Re Suspension Program  
Kaskattana

Aquitaine Company of Canada Ltd  
1300 Calgary House  
550-Sixth Avenue S W  
CALGARY Alberta

Attention Mr J Borocco

Well Data

Approximate Total Depth	2900'	
Hole Size	2-15/16"	
Intermediate Casing	3-1/2"	Set at 1732'
Surface Casing	7"	Set at 327'

Proposed Suspension Program

- Set a 50' cement plug on bottom
- Set a 100' cement plug over bottom of 3-1/2" casing,  
plug interval 1680'-1730' feel in 48 hours
- Displace top 200' of hole to diesel oil - *5 some cement is needed - should set first then water*
- Mount a Bonnet on wellhead with a 2" outlet, install 2" valve
- Leave wellhead with valve closed and bull-plugged
- Grease wellhead to minimize corrosion
- We expect to start suspension operation on December 10 1966 at completion of our logging program

Yours very truly,

BANFF OIL LTD

A J Brinke -  
Senior Operations Engineer

AJB JG

- cc Sogepet Limited (2)
- Sun Oil Co (2)
- Atlantic Refining Company (2)
- Department of Mines Warden Men (2)
- Department of Mines & Natural Resources (1)
- Wellsite (1)



Department of Energy, Mines and Resources  
Ministère de l'Énergie, des Mines et des Ressources

Observations Branch  
Direction des Observations

File Number  
N° à rappeler

Ottawa 3, Ontario  
December 7, 1966

Mr M J Gobert  
Assistant Deputy Minister  
Dept of Mines and Natural Resources  
Winnipeg 1, Manitoba

RE Sogepet Aquit Kaskattama Prov.#1

Dear Mr Gobert

Thank you for the copy of your letter to Mr Rudolph. I will contact him directly to make arrangements for our temperature measurements. It may be advantageous to run a detailed log above the plug before it is removed. This will yield information on the permafrost situation in the area, which may be of help to future drillers, as well as being of interest to the Arctic Research Group of Building Research Division of the National Research Council. We can make further measurements after the plug is removed if this turns out to be practical.

We are very grateful to you for bringing this well to our attention. We know of no underground temperature measurements in that part of the country, the nearest localities where such work has been done are Flin Flon and Great Whale River. I am sure that there must be suitable holes in the Thompson area, but so far limitations of time and staff have prevented us from enquiring in this area.

Thank you for your kind cooperation

Yours sincerely,

A M Jessop  
Division of Seismology

AMJ lt

December 5, 1966

F. S. Gamey

M. J. Gobert  
Asst. Deputy Minister

Sogepet Aquit Kaskattama Prov. #1 - Dec. 5/66

The above well was coring at 2785' as of December 5, 1966. Tentative plans now call for a logging program to be carried out this coming Thursday, (Dec. 8/66), weather permitting.

After logging, the company may suspend further coring until next year. A plug will be placed near the top of the open hole - 1700'-1800', and another plug at approximately 1000'.

Mud will be circulated out with diesel fuel and the well shut in.

cc: J. S. Richards

Mr. J. S. Richards

December 2, 1966

Mr. John C. Rudolph,  
President and General Manager,  
Banff Oil Ltd.,  
Calgary House,  
550 Sixth Ave., S.W.,  
CALGARY, Alberta.

Re: Sorepet Aquit-Kaskattama Prov.#1

Dear John:

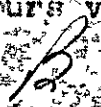
It is my understanding that whether the well is to be suspended or abandoned, a cement plug will be set at approximately 1,000 feet and the casing above the plug filled with fuel oil until next spring.

Dr. Alan M. Jessop, Seismology Division, Department of Energy, Mines and Resources in Ottawa is interested in having certain heat measurements made in this well.

By copy of this letter I am asking Dr. Jessop to correspond directly with you as to arrangements for such measurements.

Best regards,

Yours very truly,

  
M. J. Covert  
Assistant Deputy Minister.

JJC/js

C.c. Dr. A. M. Jessop

C.c. G. E. Johnson

C.c. F. S. Gamey

C.c. J. S. Richards.

p. c. to: Dr. J. F. Davies,  
Chief Geologist.

Mr. T. Morgan,  
Chief Mining Recorder.



December 1, 1966

F.S. Gamey

M. J. Gobert  
Asst. Deputy Minister

Sogepet Aquit Kaskattama Prov #1

(Phone call - Banff to Grady Johnson - Dec. 1/66)

Re: Permafrost -

Drilling encountered lime at 20'. There was water seepage from the Bay which they believe kept out the permafrost. The temperature survey doesn't show up the permafrost.

Re: Abandonment -

The company intends to abandon or suspend the well in one week's time. They are now waiting on decision of Aquitaine whether to suspend and continue drilling next summer or to abandon.

If they suspend, they will put a plug across the bottom of the casing and fill the casing with diesel fuel.

There is a waterflow in the bottom of the hole now which would likely displace the diesel fuel if it were used to fill up the hole. A plug across the bottom of the casing is necessary. They have enough diesel fuel on hand to fill up the casing - approximately 17 bbls.

The depth of the hole is around 2,800' at the present time. They would like to suspend drilling right away because of the possibility of an accident and not being able to get a plane in. They are waiting for Aquitaine to make a decision.

cc: J. S. Richards

November 29, 1966

F. S. Gamey

M. J. Gobert  
Asst. Deputy Minister

Banff Drilling

Sogepet Aquit Kaskattama Prov. #1

Phone call to Grady Johnson - November 29, 1966.

Banff recovered their "fish" and the hole is standing at 2777'.

They are now awaiting a power plant to be flown in today, weather permitting. They are also having a water treatment problem and are attempting to use water from the Bay.

Regarding drill core - they will start sending it to McCabe as soon as their palaeontologists release it.

They are sending in copies of logs run to date and expect to carry out more logging and a velocity survey at total depth.

cc: J. S. Richards



INTER-DEPARTMENTAL MEMORANDUM

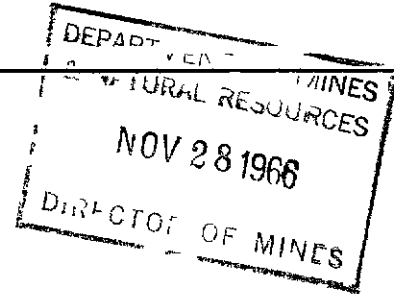
FROM F. S. Gamey



DATE November 28, 1966

TO J. S. Richards  
Director

SUBJECT Hudson Bay Drilling



Sogepet Aquit Kaskattama Prov. #1

A large, stylized handwritten signature, likely of F. S. Gamey, written in dark ink.

The report from Banff this morning (Nov. 28/66) stated they were "fishing". The depth of hole is 2748'.

NOTE

Banff asked Grady Johnson to inform them by next week if the Manitoba Government would like the hole left open; otherwise they will plug and abandon it.

Please advise.

A handwritten signature, likely of F. S. Gamey, written in dark ink.

cc: M. J. Gobert

p. c. to: Dr. J. F. Davies, Chief Geologist.  
Mr. T. Morgan, Chief Mining Recorder.

November 28, 1966

F. S. Gamey

M. J. Gobert  
Asst. Deputy Minister

Banff Drilling

Sogepet Aquit Kaskattama Prov. #1

9 5/8" csg. set at 49'  
7 1/2" csg. set at 327'  
3 1/2" csg. set at 1732'

4 1 1/16" core bit used  
*for cored sections*

Open hole from 1732' on (fishing at 2748' - Nov. 28/66)  
2 15/16" core bit from 1732'

Logs run

(Schlumberger)

Temperature log	0 - 1630'
Induction E. log	328' - 1632'
Sonic Gamma Ray	328' - 1632'
Gamma Ray Neutron	0 - 1633'

No drill stem tests have been run.

67 core sections have been taken down to a depth of 2267'.

The logging equipment is still at the well site and further logging will likely be carried out when hole reaches T.D.

November 8, 1966.

Mr. W. D. Clark,  
Aquitaine Company of Canada Ltd.,  
234 Hudson's Bay Oil & Gas Building,  
320 - 7th Avenue S.W.,  
CALGARY, Alta.

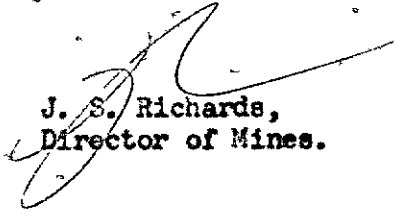
Dear Mr. Clark:

In our opinion, Section 255 of the Regulations Under The Mines Act does not provide for the grouping of permits held by more than one permittee.

However, if you will submit assignments of all permits into the names of the beneficial owners the permits will be grouped as permitted by Section 255.

Permit Nos. 1 to 12, and Permit Nos. 13 to 19 are hereby grouped in accordance with Section 255 as and from the date of issue of Permit Nos. 13 to 19, provided the above assignments effective as of that date of issue are forwarded to this office.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR/or

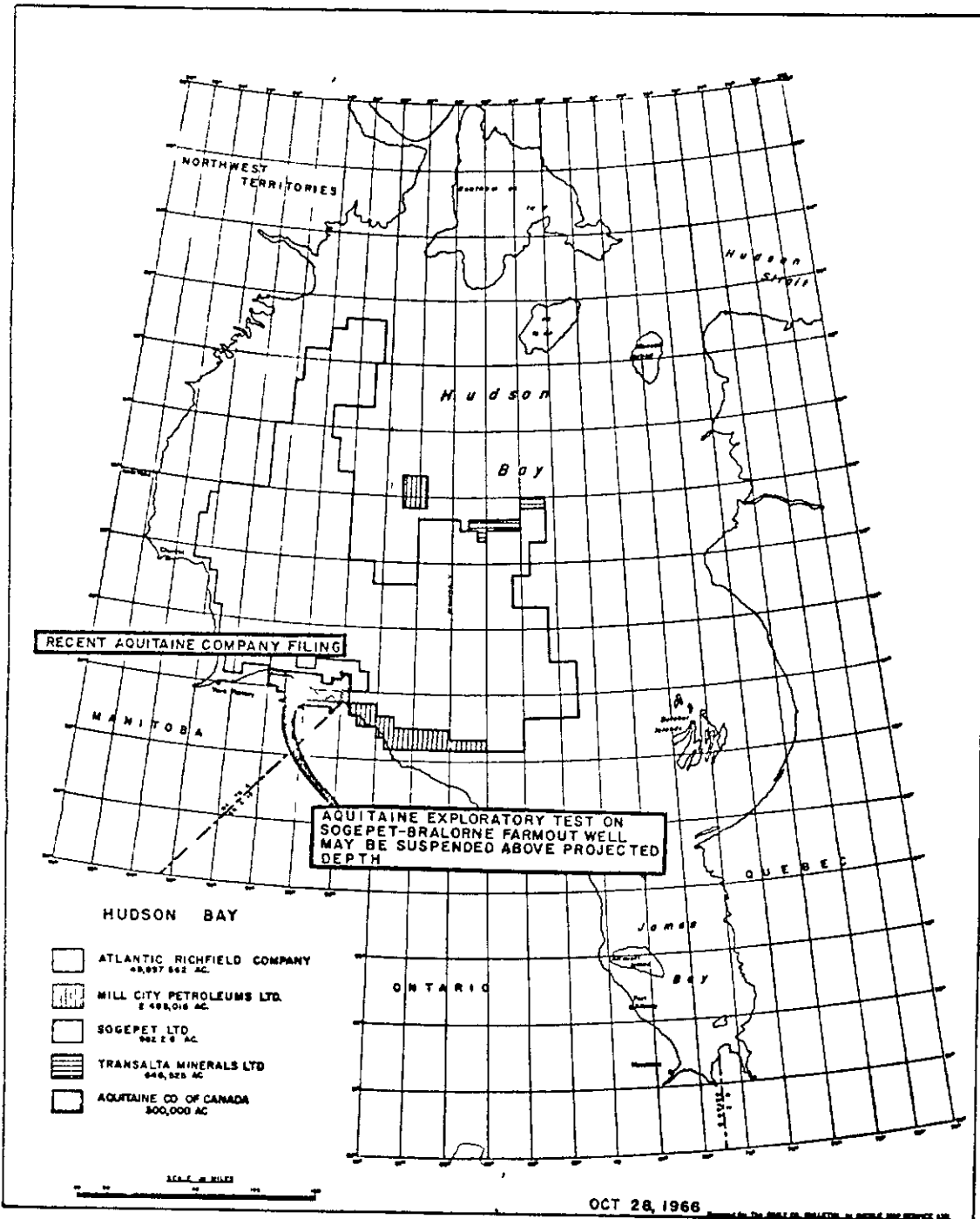
c.c. to Mr. M. J. Gobert,  
Assistant Deputy Minister

p. c. to: Mr. T. Morgan,  
Chief Mining Recorder.

Dr. J. F. Davies,  
Chief Geologist.

orig. on: ~~Aquitaine Company of~~  
~~Canada Ltd.~~  
p. c. on: Sogepet Limited.

**AQUITAINE COMPANY OF CANADA FILING ADJACENT TO RIGHTS HELD UNDER FARMOUT FROM SOGEPET**



The adjacent map details the 300 000 acres that Aquitaine Company of Canada Limited filed from the Manitoba Government on October 25th 1966. The spread of rights it will be noted are adjacent to lands previously held under exploration agreement from the team of Sogepet Limited and Bralorne Petroleum Ltd.

At the presently drilling Sogepet Aquitaine Kaskattama Prov No 1 wildcat (57 degrees and 4 minutes North Latitude and 90 degrees and 9 minutes West Longitude) the most recent depth report shows the venture at 1 700 feet. The well is scheduled to test all prospective sediments to basement. It must be realized that in a geological province as previously untested as the Hudson Bay district thickness of sediments is relatively unknown and it may therefore be necessary to suspend operations prior to reaching basement. A determining factor in the depth reached will very definitely be weather and operating conditions. Big Indian Drilling Co. Ltd project contractor has one of its specially equipped Failing 1500 rotary drills on the wildcat and it can drill to a maximum of

4 000 feet if required. At last report it was making hole below 1,761 feet. Drilling operations will be carried out as long as possible, or basement is reached.

**SUMMARY ALTA, GOV T LAND TRANSACTIONS (Continued from Page Five)**

**PETROLEUM AND NATURAL GAS PERMITS TERMINATED - NIL**  
**PETROLEUM AND NATURAL GAS RESERVATIONS ISSUED - NIL**

	No	Twp	Rge	Mer	Acres
Muskeg Oil Company	674L	53	5	5	15 360
		54	5, 6	5	

October 20, 1966.

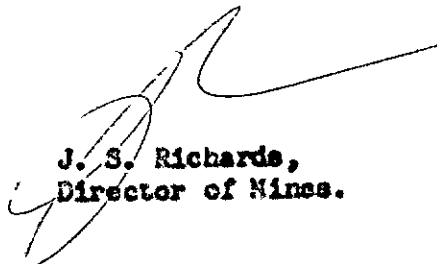
Mr. W. D. Clark,  
Secretary,  
Aquitaine Company of Canada Ltd.,  
234 Hudson's Bay Oil & Gas Building,  
320 - 7th Avenue S.W.,  
CALGARY, Alta.

Dear Mr. Clark:

This will acknowledge your letter of October 13th, enclosing a Statutory Declaration stating the expenditures in respect of Sogepet Aquitaine Kaskattama #1 well will be in excess of \$300,000.

This declaration is accepted as sufficient evidence to renew Oil and Natural Gas Permit Nos. 1 to 12, inclusive, for a period of one year, as provided for by Section 244 of the Regulations. This renewal is granted subject to the submission of the verified statement and additional information mentioned in your letter within the ninety day period stipulated by Section 251 of the Regulations.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR/or

c.c. to: Mr. M. J. Gobert,  
Assistant Deputy Minister.

Mr. T. Morgan,  
Chief Mining Recorder. - with S D

p.c. to: Mr. Franc. R. Joubin, President,  
Sogepet Limited, 88 University Avenue,  
Toronto 1, Ontario.

p. c. to: Dr. J. F. Davies,  
Chief Geologist.

~~p. c. on:~~ Sogepet Limited.

~~orig. on:~~ Aquitaine Company of  
Canada Ltd.

STATUTORY DECLARATION

CANADA  
PROVINCE OF ALBERTA

To Wit

IN THE MATTER OF The Mines Act of the Province of  
Manitoba and the Regulations Issued Pursuant thereto

AND IN THE MATTER OF Exploratory Permits Oil and  
Gas Rights, Nos 1 to 12 inclusive

I, *Ronald C Dowell*

of the City of Calgary, in the Province of Alberta

DO SOLEMNLY DECLARE

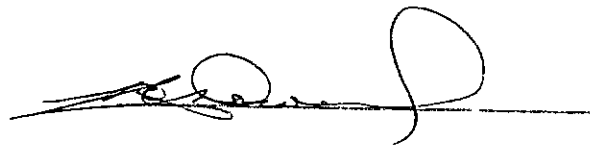
- 1 That I am the *Assistant Secretary* of Banff Oil Ltd  
and as such have a personal knowledge of the matters hereinafter declared
- 2 That Banff Oil Ltd is the operator of the Sogepet Aquitaine Kaskattama #1  
well being drilled at a location in Oil and Gas Exploratory permit No 8
- 3 That the said well is not completed and that Banff Oil Ltd has not yet received  
all invoices for services rendered to date
- 4 That on the basis of such invoices as have been received to date, and on the  
basis of my knowledge of the costs of the services performed to date, the costs  
of the said well, as at September 30, 1966 are in excess of \$195,000 00
5. That the additional costs which have been incurred from September 30, 1966 to  
October 12, 1966 are estimated to be in excess of \$20,000 00
- 6 That additional costs to be incurred subsequent to October 12, 1966, are  
estimated to be a minimum of \$85,000 00
- 7 That because of the relatively few invoices on hand it is impractical to provide  
at this time a detailed breakdown of the costs at the date hereof
- 8 That all of the costs above referred to have been or will be incurred exclusively  
in actual and normal drilling and testing operations in connection with the  
said well or in logistical activities necessarily incidental thereto

AND that I make this solemn declaration conscientiously believing it to be true and  
knowing that it is of the same force and effect as if made under oath and by virtue  
of the Canada Evidence Act

Declared before me at the  
City of Calgary  
in the Province of Alberta  
this *13<sup>th</sup>* day of October, 1966

*Ronald C Peterson*

Notary Public in and for  
the Province of Alberta





October 6, 1966

F. S. Gamey  
Reservoir Engineer

M. J. Gobert  
Asst. Deputy Minister

Lic. 2168                      Kaskattama Drilling

REPORT - Grady Johnson              Oct. 5/66

Cementing at 1179' to shut off water (salt water 9,700 ppm est.).  
Believed to be in on top of Interlake (Silurian).  
Encountered some reef formation in previous coring.  
Core at 970' showed good bedding planes (dip 30°).

Location believed to be 2 miles from reported co-ordinates.  
Difficulty in getting in equipment and supplies.  
May be all week shutting off water.  
Johnson returned to Virden.

Oct 10

Reported drilling in 'solid' at 1350'

Oct 17

1645'

Core # 37 (1625-45)

Logging

To set pipe to 1645' and reduce hole size (3'?)



# MIDWEST SURVEYS (ALBERTA) LIMITED

1334 11TH AVE S W — CALGARY ALBERTA

PHONE 244 7471

AREA CODE 403

TWX 610 821 2490

9608 82ND AVE  
EDMONTON ALBERTA  
AREA CODE 403  
PHONE 433 1595  
TWX 610 831 2351

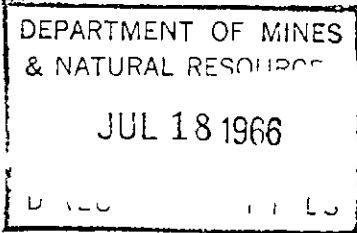
102 BRENT BLDG  
REGINA SASKATCHEWAN  
AREA CODE 306  
PHONE 522 5063  
TWX 610 721 1216

PRODUCERS PIPELINES BLDG  
1213 5TH STREET  
ESTEVAN SASKATCHEWAN  
AREA CODE 306  
PHONE 634 3241  
TWX 610 792 1691

SKINNER MOTOR BLDG  
LLOYDMINSTER SASK  
AREA CODE 306  
PHONE 4244  
TWX 610 853 2211

PACIFIC PETROLEUM BLDG  
FT ST JOHN BC  
AREA CODE 604  
PHONE 785 3512  
TWX 610 965 2024

July 15th, 1966



Mr. J.S Richards  
Director of Mines,  
Mines Branch,  
Norquay Building,  
Winnipeg, 1, Manitoba.

Dear Mr. Richards,

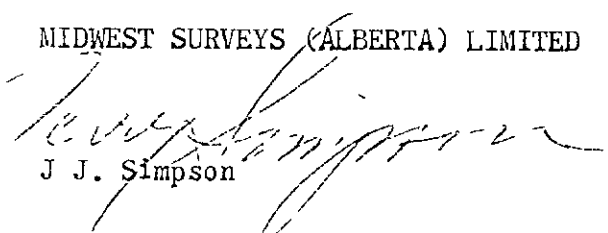
I enclose a copy of my letter to Banff Oil Ltd. If my understanding of our brief telephone conversation is in error I would be pleased to hear from your Department in the near future.

Our Mr. Gordon J. Goldsworthy, P Eng., M L S , D L S., S.L S , from our Regina office would normally be looking after this, but he will be out of the Country for the next month on holidays.

Thank you for your co-operation in this matter.

Yours very truly,

MIDWEST SURVEYS (ALBERTA) LIMITED

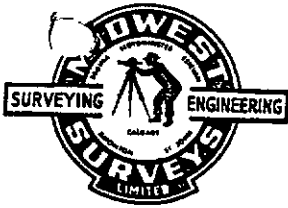
  
J J. Simpson

JJS/bmm

encl

cc Banff Oil Ltd. - Calgary  
Mr. R. Schwab  
cc Midwest Surveys - Regina  
Mr. G.J Goldsworthy

p. c. to: Mr. T. Morgan, Chief Mining Recorder.  
Mr. F. S. Gamey, Reservoir Engineer.



July 15th, 1966

Banff Oil Ltd.  
550 6th Avenue S.W.,  
Calgary, Alberta.

Attention: Mr. Robert Schwab

Dear Mr. Schwab,

I have this date had a brief discussion with Mr. J.S. Richards, Director of Mines, Mines Branch, Winnipeg. This was about the amount of survey required for the hole you intend to drill on the Delta of the Kaskattama River.

Mr. Richards is sending me a copy of their regulations, but he also stated that they will almost directly follow the regulations as set out by Ottawa for the Territories.

It is my understanding at this time that, as far as the Land Survey is concerned, you can obtain your drilling licence by applying to Mr. T. Morgan, Chief Mining Recorder, Mines Branch, Horquay Building, Winnipeg, 1, Manitoba. He should be advised that you would intend to drill on the River Delta at approximate latitude: fifty-seven degrees, two minutes, forty-five seconds ( $57^{\circ} 02' 45''$ ) and longitude ninety degrees, four minutes zero seconds ( $90^{\circ} 04' 00''$ ). Also, the well description will probably be K-23-57-10-90-00. This means that it will be located in Unit K, Sec. 23, Grid Area  $57^{\circ} 10'$  latitude,  $90^{\circ} 00'$  longitude.

There will be no need for an actual ground survey unless the well is found to be capable of production. If this is the case then it would be necessary for us to do an actual survey in the field to establish the exact latitude and longitude. We would then prepare a plan of survey (signed by a Manitoba Land Surveyor) and submit this plan to Mr. T. Morgan of the Manitoba Mines Branch.

However, for your own satisfaction and information you may wish us to survey and prepare a plan of survey during the time the well is being drilled.

Yours very truly,

MIDWEST SURVEYS (ALBERTA) LIMITED

  
J.J. Simpson

JJS/lms

✓cc: Mr. J.S. Richards  
cc: Mr. G.J. Goldsworthy, P.Eng.,  
M.L.S., D.L.S., S.L.S.  
Midwest Surveys  
Regina, Sask.

p. c. to: ~~Mr. T. Morgan, Chief Mining Recorder.~~  
~~Mr. F. S. Gansy, Reservoir Engineer.~~



PROVINCE OF MANITOBA

## MINES BRANCH

License No 2168

## APPLICATION FOR LICENSE TO DRILL NEW WELL

23/8/66

This application in quadruplicate accompanied by the required license fee and four copies of plan of certified survey must be submitted and approved before commencing operations

Manitoba August 18, 19 66

In compliance with Drilling and Production Regulations being Part IV of the Oil and Natural Gas Regulations under The Mines Act R.S.M. 1954, Cap 166 application is hereby made for a license to drill

SOGEPET AQUIT KASKATAMA #1

(Name and Number of Well)

By

BANFF OIL LTD.

(Insert name of applicant company firm or individual)

Surface location - L.S.

Section Township Range

West of

Meridian

Estimated location - River Delta at approximately:  
Latitude 57° 02' 45" - Longitude 90° 04' 00"(North of South)  
feet (South of North) boundary of(East of West)  
feet (West of East) boundary of

Area assigned to Well

(To be assigned by Director of Mines)

Lease comprises of area contained in Permit #3

being 33,229 acres Lease Number Permit #8

(If Crown Land)

Leased subleased or assigned from

Manitoba Crown

Oil and natural gas rights owned by

Manitoba Crown

The elevation of the (ground surface) (derrick floor) is

(to be supplied)

feet above sea level

Well is expected to produce from

Ordovician

formation at a depth of about 3500 feet

We propose to use the following strings of casing either cementing or landing them as below indicated

Casing Size Inches	Weight Lbs/Ft	Grade	Brand	New or Used	Estimated Depth	Sacks of Cement
7"	23#	J-55	Mannesman	NEW	450 †	to surface
3½"	EX Diamond Drill				2000 †	to surface
3						
4						

Expected Water Gas and Oil Horizons and Method of Control Devonian, Silurian and Ordovician. Double Ram and Hydril Mechanical Blowout Preventers. Hydrostatic Head of Mud.

Well will be drilled with (rotary) (cable) tools by

Big Indian Drilling Co. Ltd.

(Drilling contractor or company)

Responsible agent of applicant

Mr. Ron Russell

At Well

Churchill, Manitoba

Address

At registered Manitoba Office

Mr. J.A. Macaulay

Address

Somerset Building, Winnipeg, Manitoba

It is understood that if changes in this plan become necessary we will promptly notify you

Dated at Calgary, Alberta

this

18th

day of

August,

19 66

Signed by

(To be signed by duly authorized officer or agent of the applicant or by applicant personally)

Approved —

*Henry*  
Chief Mining Recorder

Approved —

*W. J. Macaulay*  
Chief Mining Engineer  
Director of Mines

Kindly read the Excerpts from Drilling and Production Regulations Part IV of Manitoba Regulation 14/47 on reverse side before completing this form

**EXCERPTS FROM DRILLING AND PRODUCTION  
REGULATIONS**

Regulations under The Mines Act' R S M 1954 Cap 166, respecting Drilling and Production Operations of Oil and Natural Gas Wells

109 (1) No person shall commence to drill any well or undertake any operation preparatory or incidental to the drilling of a well or continue any drilling or producing operations at a well unless he holds a license for such purpose issued pursuant to these regulations

(2) No person shall carry on drilling operations at a point other than that specified in his license

110 (1) Application for a license shall be made to the chief mining recorder but shall be subject to the approval of the director and

(2) The application shall be supported by such evidence as the director may require, including —

(a) the proposed programme of the drilling operations

(b) the location of the point at which it is proposed to drill the well

(c) where the proposed well is located in any tract already held by some person by assignment or lease a copy of the assignment or sublease from the original lessee or other satisfactory evidence of the applicant's right to drill at the point applied for

117 (1) The director or anyone authorized by him shall at all times have access to all wells records plants and equipment and shall have the right to take samples and particulars or to carry out any test or examination desired

(2) The operator of a well or of drilling operations at a well shall render such officer any assistance that may be required,

(3) Every official authorized by the director to exercise any of such powers shall have at all times while exercising such powers, a certificate of authority signed by the director and shall produce the certificate on demand

120 The surface location of every drilled well shall be as nearly as possible in the centre of the area assigned to such well in accordance with section 119, but where surface conditions or other circumstance so justify the director may permit the well to be located outside the centre of the assigned area provided that in no event shall a surface location be nearer to the boundary of the assigned area than one half the distance from the centre of the assigned area to the boundary thereof

122 Except where special circumstances exist which in the opinion of the director, justify such action, no license shall be granted for drilling a well within

(a) Three hundred and thirty feet of the nearest boundary of the area of the oil and natural gas rights which are owned or controlled by the operator or

(b) Three hundred and thirty feet of any road allowance surveyed road, railway, dwelling, school or church

123 (1) A well shall not penetrate any part of the producing horizon at a point nearer to the interior boundary of the legal subdivision or other area assigned to the particular well than one-half the distance from the centre of the area to the boundary of the area,

(2) Where a well is drilled upon an approximately square forty acre tract the producing horizon shall be penetrated at a point within the square comprising the ten central acres of the tract

(3) Where in a particular tract the director has prescribed surface locations at points other than in the centre of an approximately forty acre tract the provisions of subsection (2) shall not apply but such a well shall not penetrate any part of the producing horizon at a point nearer to the boundary of the legal subdivision or assigned area than one half the distance from the top of the well to the nearest boundary,

(4) Where the director, in accordance with section 121 has fixed the surface location of a well at a point outside the limits prescribed in section 120 the director may order the operator to so directionally drill such well as to assure the penetration of the horizon at a point in compliance with subsection (3) of this section

133 (1) The equipment of all wells shall include —

(a) On the subsurface equipment a pin collar or its equivalent, appended to the lower end of the production string or tubing as a safeguard against the loss of testing equipment

(b) On the surface equipment, such valve connections as are necessary to sample oil natural gas, or water being produced

(c) For sampling gas a half inch sampling valve in the line in which the gas is being metered, situated far enough from the orifice plate so as not to contravene the requirements of sections 177 to 182 of these regulations respecting metering,

(2) The surface and subsurface equipment of all oil and natural gas wells shall be so arranged as to allow officers of the Branch to take the closed in pressure the bottom hole pressure and the working pressure of the well or to make any test at any time, and the operator of any well shall assist the officers in carrying out any such tests

145 (1) The operator at any well in the process of drilling or reconditioning shall keep in triplicate, a daily record of all operations carried on at the well

(2) The original copies of the daily records for any week shall be filed with the Branch within the next ensuing week and duplicate copies shall be turned over to the owner of the well and made a part of his permanent record

146 (1) The daily report shall set out complete data on all operations carried on during the day, including —

(a) the depth at the beginning of the day and the depth at the end of the day,

(b) the formations penetrated

(c) any change in casing and if casing set all data regarding the setting with the size-type and weight of casing used

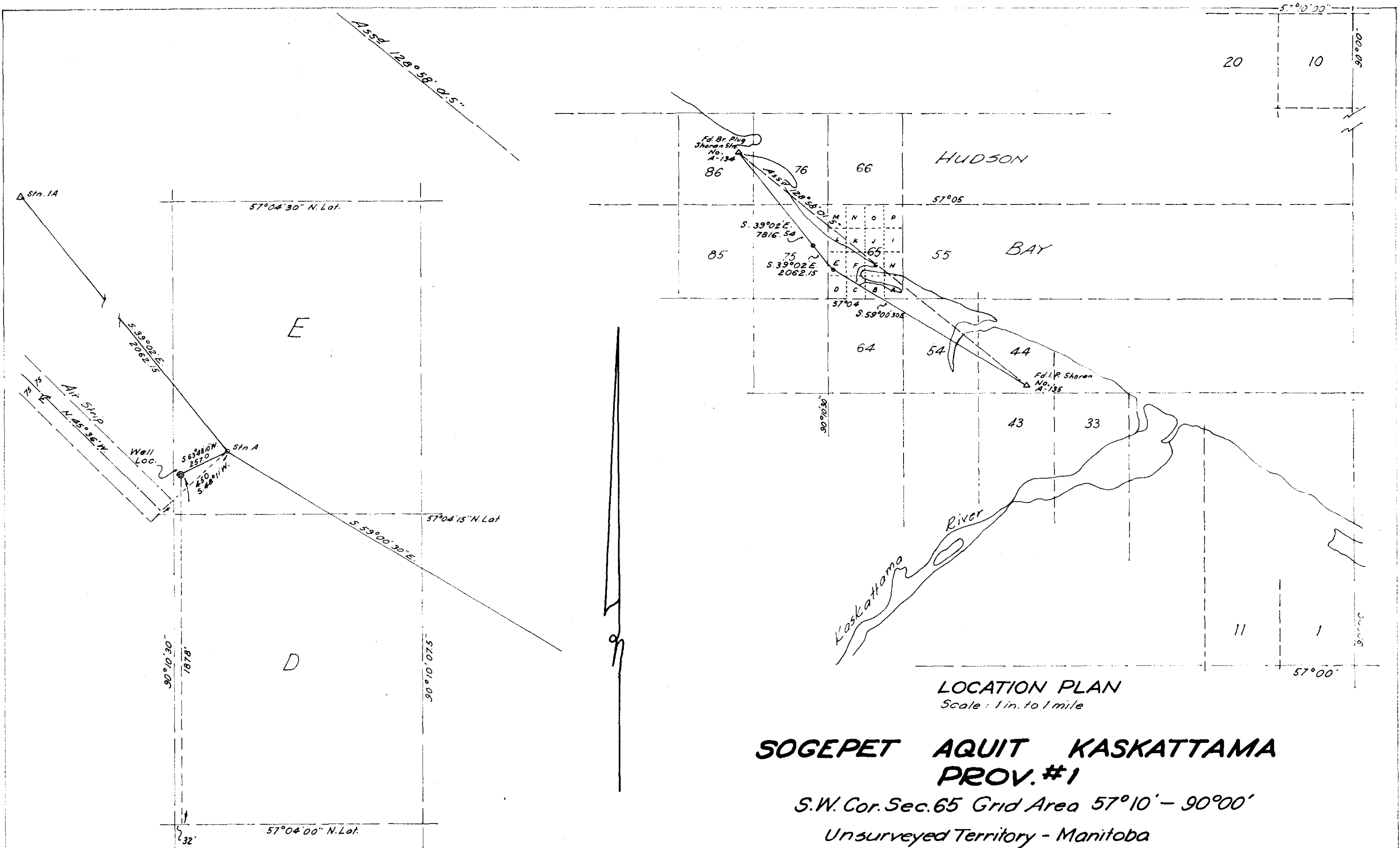
(d) particulars of any cementing

(e) any water oil or natural gas encountered even if only in small showings,

(f) a report on any deviation or other tests carried out

(g) all operations whether strictly drilling operations or not such as fishing shooting perforating acidizing surveying or abandonment

(2) Any suspension of operations shall be noted on the last daily report, previous to such suspension



LOCATION PLAN  
Scale: 1 in. to 1 mile

**SOGEPET AQUIT KASKATTAMA  
PROV. #1**

S.W. Cor. Sec. 65 Grid Area 57°10' - 90°00'

Unsurveyed Territory - Manitoba

Well is located 32' E & 1878' N. of S.W. cor. Sec. 65 - 57°10' - 90°00' Grid Area  
Well located at Lat. 57°04'18.487" Long. 90°10'29.408"

Elevation: 15.8 Ground  
29.5 K.B.  
Datum: High tide mark on shore of bay 13.3 ft.

**BANFF OIL LTD.**

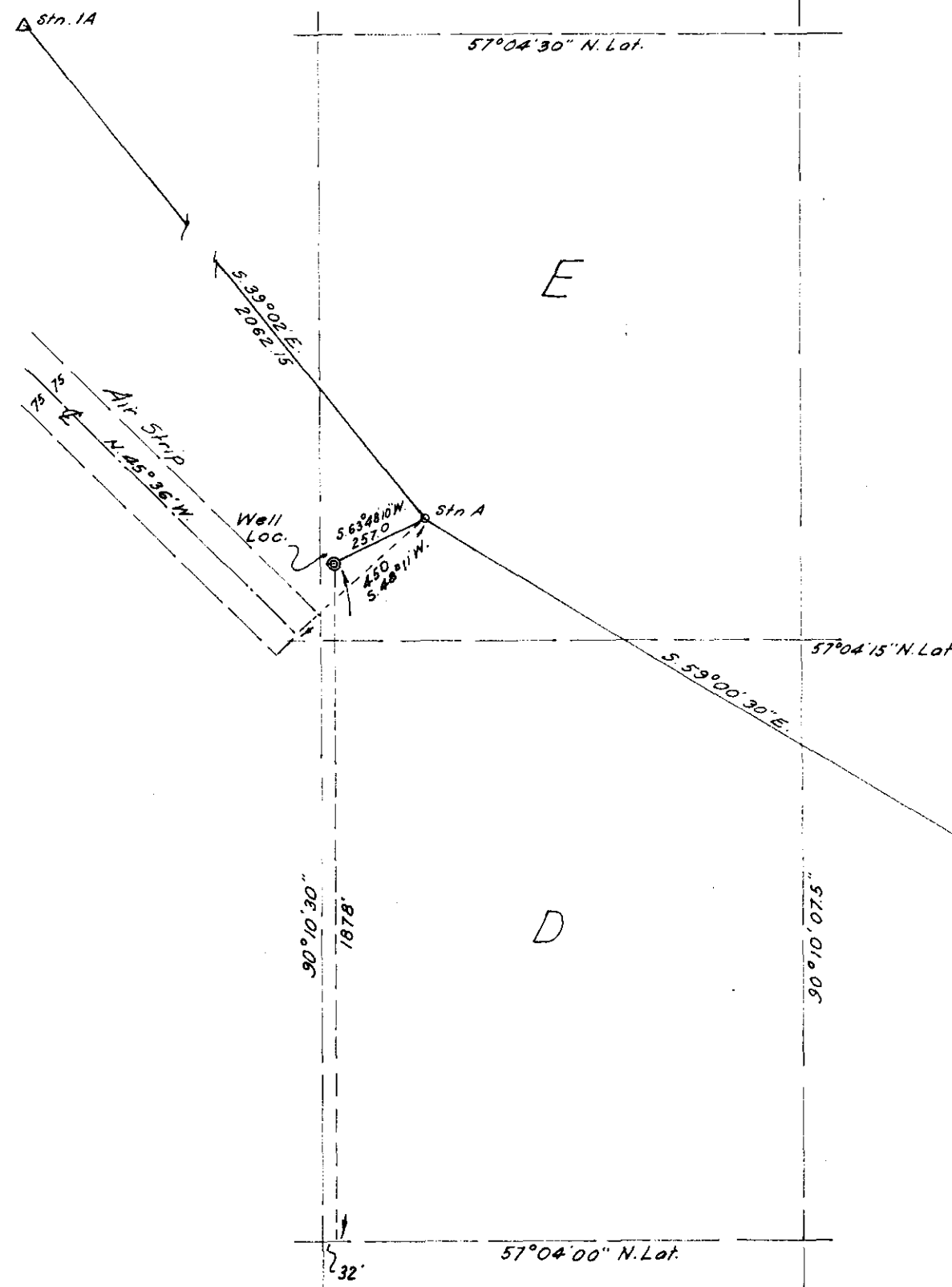
I certify that the survey represented by this plan  
is correct to the best of my knowledge and was  
completed on the 25<sup>th</sup> day of September 1966

*G. J. Gredson*  
Manitoba Land Surveyor

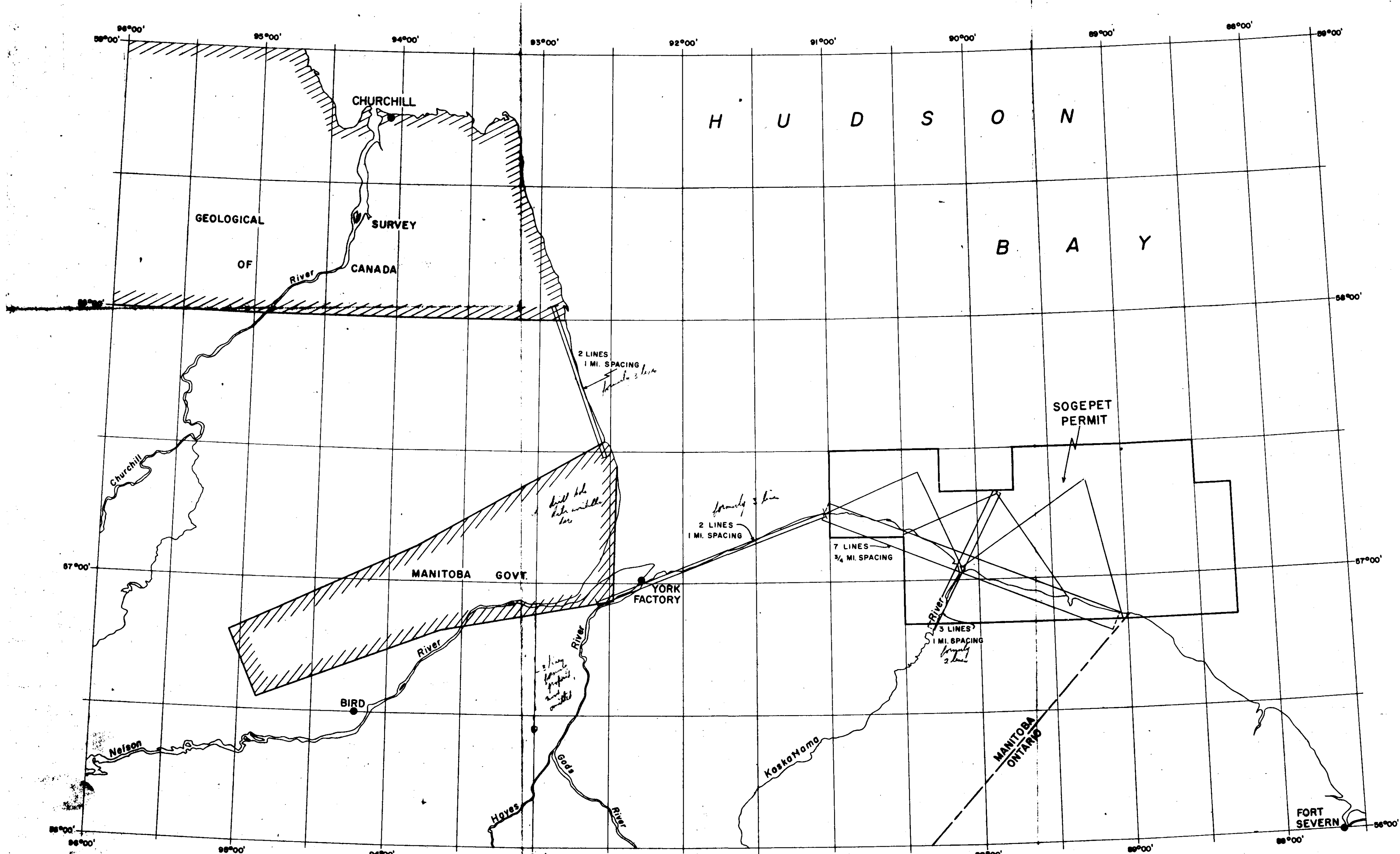
MIDWEST SURVEYS



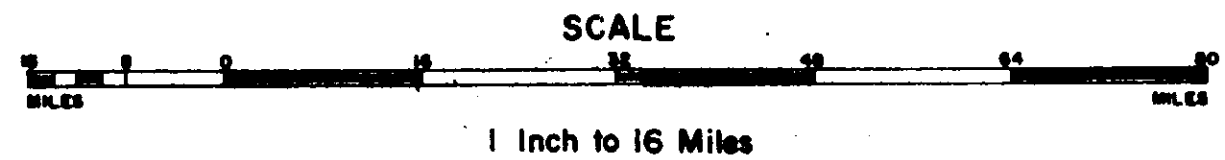
C448-66



DETAIL  
Scale: 400 ft. to 1 in.



FLIGHT LINE LAYOUT  
OF  
AEROMAGNETIC SURVEY,  
CAPE TATNAM AREA  
FOR  
SOGEPET LIMITED



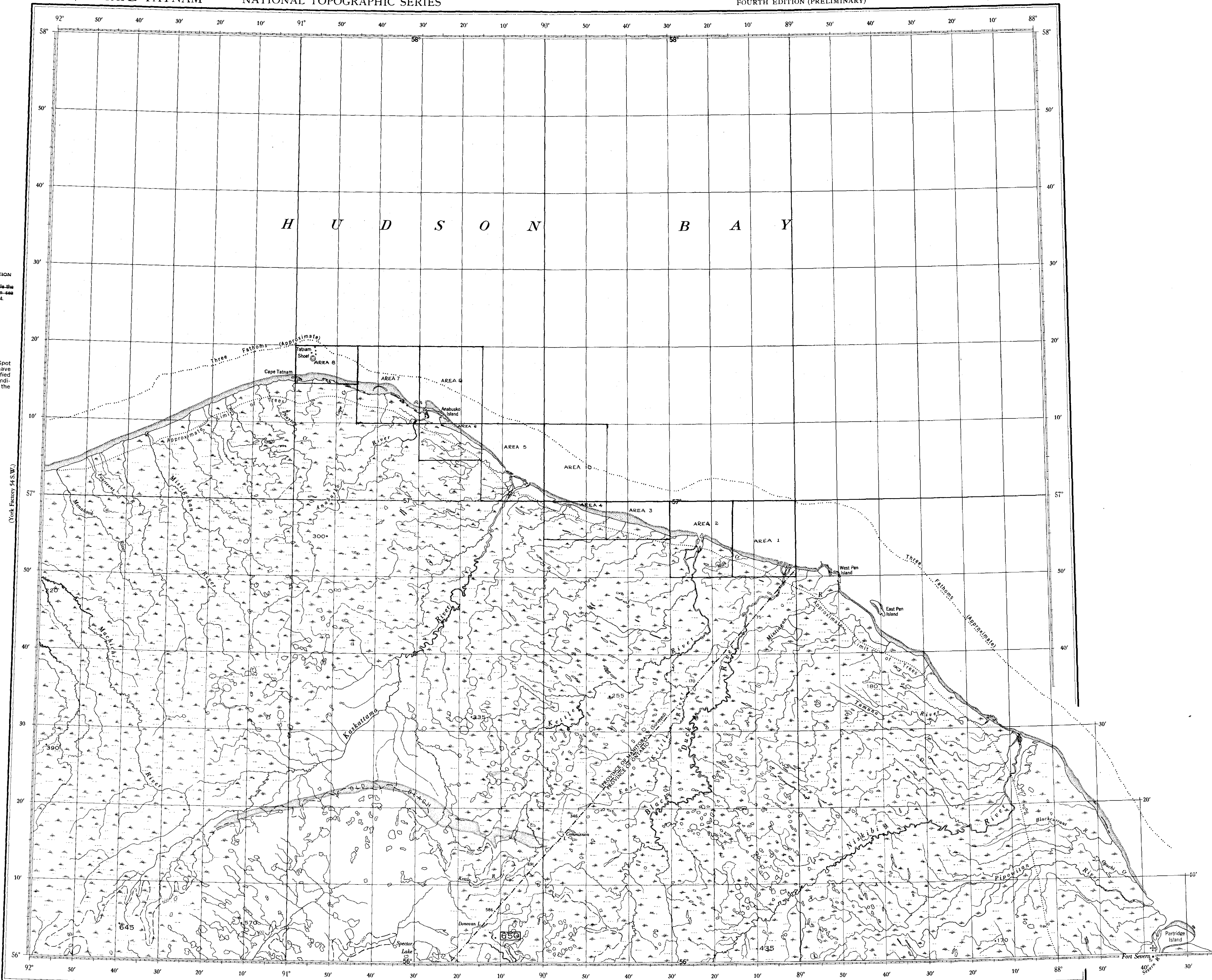
*Revised flight plan*



HIGHEST ELEVATION UNKNOWN  
From sources available the elevations range from sea level to about 500 feet.

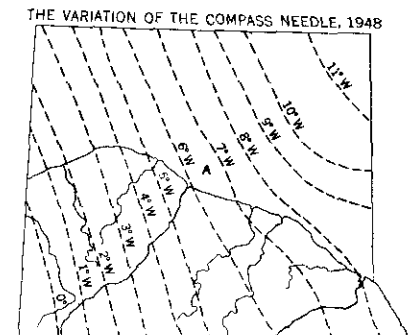
HIGHEST KNOWN ELEVATION  
54° 05' N  
90° 10' W  
650

Contours are approximate. Spot elevations shown in brown have been obtained along a specified line and do not necessarily indicate the highest elevation in the area.

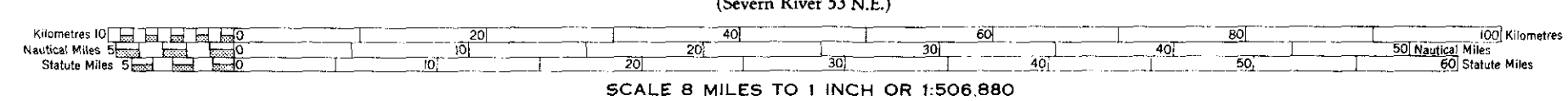


Base Map, Previous Editions 1943, 1945, 1949.  
New Edition, 1952.  
Overprinted with relief data 1955.

THE VARIATION OF THE COMPASS NEEDLE, 1948



- REFERENCE
- ..... Boundary: Provincial
  - ..... Tidal Flat
  - ..... Marsh or Swamp
  - ..... Trading Post
  - ..... Wireless Station
  - ..... Isolated Rock
  - ..... Spot Elevation (in feet)

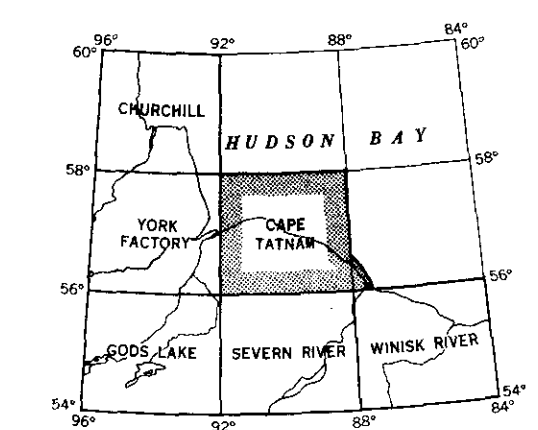


SCALE 8 MILES TO 1 INCH OR 1:506 880

Copies may be obtained from the Map Distribution Office,  
Department of Mines and Technical Surveys, Ottawa.

Reliable information concerning additions or corrections  
to this map is invited by the Map Compiler and Reproduction  
Division, Surveys and Mapping Branch, Ottawa.

CAPE TATNAM N.W. 56/92  
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INDEX TO ADJACENT SHEETS SHEET 54 S.E.

**FILE BACK COVER NO.**

FROM

TO

SUBJECT

*Well file*

*Seepout Audit*

*Provincial*

*General Correspondence*

*Permit No. 8*

Exploration Permits Nos 1-35

General

Correspondence



Permit No 8