

**FILE BACK COVER No.**

FROM *Oil Shale Reservations*

TO No. *11, 12, 13*

SUBJECT --

*The Atlantic Refining Company*

*General Correspondence*

MANITOBA

DEPARTMENT OF MINES, RESOURCES  
& ENVIRONMENTAL MANAGEMENT

Mineral Resources Division  
Petroleum Branch  
Telephone (204) 633 5543  
989 Century Street  
Winnipeg, Manitoba  
R3H 0W4

September 27, 1978

Petro-Canada Exploration Inc.  
650 Guinness House  
727 - 7th Avenue S.W.  
Calgary, Alberta  
T2P 0Z6

Attention Mr. J. R. Cuthbertson  
Senior Geologist

Dear Sir:

Re: Cores of Manitoba Core Holes  
Atlantic Richfield Company -  
Oil Shale Reservations  
Manitoba

We acknowledge with thanks receipt of 69 boxes of core for Core Hole  
Nos. 2, 3 and 4 under the subject reservation.

Your co-operation is greatly appreciated.

Yours sincerely,

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

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

WG/et

b.c. Geophysical Lic. No. 102

Res 11-13

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

*Outstanding*  
LEASE NO. *107 F - on 12 March 1950*  
LEASE LEDGER

*See Account Balance 107 F, 1950*  
*Subsiders, American Oil & Gas Co., 2000 7th Avenue S.W. Calgary, 4*

DATE OF ENTRY	PERIOD OF LEASE		DESCRIPTION	RENTAL	DEBIT	CREDIT	BALANCE
	FROM	TO					
1950-1-1			<i>Summary</i>	<i>Summary Range</i>			<i>13-1-50</i>
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*Journal or C B Folio*

*Details*

*Debit*

*Credit*

*Balance*

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DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

*Dist. No. 12*  
LEASE NO.  
*63457*

LEASE LEDGER

*in California Property Company*  
*Sub lease - 1000 sq ft Bay Club & Sun Bay Company*

DATE ISSUED	PERIOD OF LEASE	DESCRIPTION	RENTAL	FILE NUMBER	RENTAL		JOURNAL OR C B FOLIO	DEBIT	CREDIT	BALANCE
					FROM	TO				
<i>12/01/62</i>	<i>7</i>	<i>Monthly</i>	<i>1000</i>	<i>63457</i>						
<i>12/01/62</i>	<i>8</i>	<i>Monthly</i>	<i>1000</i>	<i>63457</i>						
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**THE ATLANTIC REFINING COMPANY**  
INCORPORATED 1870  
**PETROLEUM PRODUCTS**

—  
 TELEPHONE 263 1990

**NORTH AMERICAN PRODUCING DEPARTMENT**

F A HILDENBRAND REGIONAL MANAGER  
 T J HITCHCOCK REGIONAL EXPLORATION MANAGER  
 J D STAFFORD REGIONAL OPERATIONS MANAGER  
 G H THERIAULT REGIONAL LAND MANAGER

**MAILING ADDRESS**  
 5TH FLOOR HUDSON'S BAY OIL & GAS BLDG  
 320-7TH AVENUE S W  
**CALGARY ALBERTA**  
 CANADA

July 20, 1965

DEPARTMENT OF MINES  
 & NATURAL RESOURCES  
 JUL 22 1965  
 DIRECTOR OF MINES

DEPARTMENT OF MINES  
 & NATURAL RESOURCES  
 JUL 22 1965  
 PETROLEUM ENGINEERING  
 DIVISION

Director of Mines Branch,  
 Department of Mines and Natural Resources,  
 Parliament Buildings,  
 Winnipeg, Manitoba

Attention Mr. J Richards

Dear Sirs

Re Proposed Core Hole Program  
 The Atlantic Refining Company  
Manitoba.

Pursuant to Section 98 of the Regulations under the Manitoba Mines Act, The Atlantic Refining Company herewith requests consent to drill the following test core holes on existing public road allowances as shown on the attached plat

<u>Core Hole No</u>	<u>Proposed Total Depth</u>	<u>Location</u>
1.	485 ft.	1,320' West of SE corner, Sec 16, T11, R16, W1M
2	470 ft	1,320' South of NE corner, Sec 31, T9, R13, W1M
3	565 ft	2,640' West of SE corner, Sec. 9, T6, R8, W1M
4.	585 ft.	1,320' West of SE corner, Sec 27, T1, R6, W1M

Atlantic possesses the right to explore for Oil Shales underlying the subject areas by virtue of its possession of Manitoba Oil Shale Reservations 11, 12, and 13

As Atlantic intend to commence this exploratory program at the earliest practicable moment, it is respectfully requested that this application be considered at your early convenience

-2-

With reference to our recent telephone conversation we respectfully request cancellation of Road Allowance Permit No. 99 as these tests will not be drilled at the locations originally applied for. We regret any inconvenience that this cancellation may have caused your Department

Yours very truly,

THE ATLANTIC REFINING COMPANY



L. S. Torfason  
District Landman

LST•nb

Enc



THE ATLANTIC REFINING COMPANY

INCORPORATED 1870

PETROLEUM PRODUCTS

TELEPHONE 263 1990

NORTH AMERICAN PRODUCING DEPARTMENT

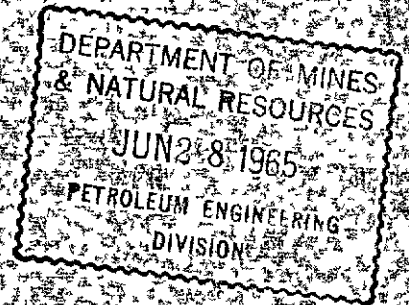
- F. A. HILDENBRAND REGIONAL MANAGER
- T. J. HITCHCOCK REGIONAL EXPLORATION MANAGER
- J. D. STAFFORD REGIONAL OPERATIONS MANAGER
- G. H. THERIAULT REGIONAL LAND MANAGER

MAILING ADDRESS

5TH FLOOR HUDSON'S BAY OIL & GAS BLDG  
320-7TH AVENUE S.W.  
CALGARY ALBERTA  
CANADA

June 24, 1965

Director of Mines Branch,  
Department of Mines and Natural Resources,  
Parliament Buildings,  
Winnipeg, Manitoba.



Attention: Mr. J. Richards

Dear Sirs:

Re: Proposed Core Hole Program  
The Atlantic Refining Company  
Manitoba.

Pursuant to Section 98 of the Regulations under the Manitoba Mines Act, The Atlantic Refining Company herewith requests consent to drill the following test core holes on existing public road allowances as is outlined in red on the attached plat.

Core Hole No.	Proposed Total Depth	Location
RES 11 1.	600 ft.	460' North of SW corner, Sec. 22, T14, R16, W1M
RES 11 2.	420 ft.	1,740' East of SW corner, Sec. 17, T11, R16, W1M
RES 12 3.	495 ft.	735' East of SW corner, Sec. 34, T7, R10, W1M
RES 13 4.	520 ft.	260' East of NW corner, Sec. 32, T3, R6, W1M

Atlantic possesses the right to explore for Oil Shales underlying the subject areas by virtue of its possession of Manitoba Oil Shale Reservations 11, 12 and 13.



As Atlantic intend to commence this exploratory program at the earliest practicable moment, it is respectfully requested that this application be considered at your early convenience.

We thank you for your assistance in this matter and if you have any questions whatsoever we would be most pleased if you would so advise.

Yours very truly,

THE ATLANTIC REFINING COMPANY



~~Kenneth S. Benson~~  
Landman

KSB:nb

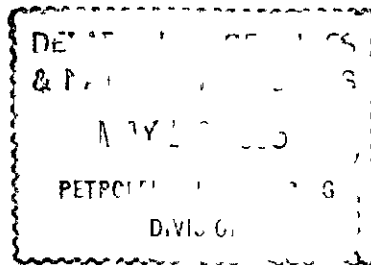
May 13, 1965.

J. ...  
Director of ...

Mr. A. J. Gocert,  
Assistant Deputy Minister.

The Atlantic Refining Company -

Oil Shale Regulations.



Attached, hereto, two copies of a letter submitted by Mr. A. J. Torfason, The Atlantic Refining Company, requesting certain amendments to the oil shale regulations. Mr. Davies and I have discussed this request with Mr. Torfason and Messrs. Berocco and Martocaux of Aquitaine Company of Canada Ltd.

The main request contained in this letter is that the regulations be amended to provide for a specified work requirement of \$750 for each 20,000 acres during the first three years of the permit, and that the provision for "subsurface" geological investigation requiring an expenditure of \$2,000 for each 20,000 acres be deleted. Mr. Davies and I are in full agreement with the arguments presented in support of this request.

The attached cross section shows clearly that a core hole drilled in Township 7, Range 10, to the base of the Faval formation will obtain as much information as a hole drilled to the base of the Fox Hillon River, plus a second hole drilled to the base of the Faval in Twp. 8, Rge. 9. I would say that there would be no doubt that the quality of the information obtained from a single hole would be better than that obtained from two locations.

It is unreasonable in the early stages of this type of investigation, where no data are available, to make this work more costly and time consuming.

As you are aware, the present oil shale regulations were drafted hurriedly in order to process the first applications received from Sun Oil Company, and insufficient thought was given to the consequences of distinguishing between surface and sub-surface exploration. It would appear that Sun has given exploration priority to its Saskatchewan acreage. It is in our interests to encourage the companies who have only Manitoba acreage.

As pointed out by Mr. Torfason, \$750 per 20,000 acres is equivalent to 3.75 cents per acre, or 11.25 cents per acre for three years. The Saskatchewan oil shale regulations require an expenditure of 12 cents per acre in the first three years of the permit.

2-- Mr. I. J. Gobert,  
Assistant Deputy Minister.

I do not agree with the suggestion that the  
reservations be grouped. However, we might grant extensions without  
any work being done where the deficiency has been made up by work on  
an adjacent reservation.

I am assuming that there would be no objection to  
the suggestion that excess work be carried over, and that a deficiency  
be made up in a subsequent year, provided that a bond is posted.

Any amendments to the regulations should be made  
prior to July 1st, which is the date these companies are required to  
commence work.

Dr. Davies and I will be pleased to discuss this  
matter at your earliest convenience.

J. S. Richards.

J. S. R.

Enc. 2.

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

Mr. T. Morgan,  
Chief Mining Recorder.

Mr. F. S. Gamey,  
Reservoir Engineer.



**THE ATLANTIC REFINING COMPANY**

INCORPORATED 1870

**PETROLEUM PRODUCTS**

TELEPHONE 263 1990

**NORTH AMERICAN PRODUCING DEPARTMENT**

- F A HILDENBRAND REGIONAL MANAGER
- T J HITCHCOCK REGIONAL EXPLORATION MANAGER
- J D STAFFORD REGIONAL OPERATIONS MANAGER
- G H THERIAULT REGIONAL LAND MANAGER

**MAILING ADDRESS**

5TH FLOOR HUDSON'S BAY OIL & GAS BLDG  
 320-7TH AVENUE S W  
**CALGARY ALBERTA**  
 CANADA

April 30, 1965.

Mr J. S. Richards,  
 Director of Mines,  
 Department of Mines and Natural Resources,  
 Norquay Building,  
 401 York Avenue,  
 WINNIPEG - Manitoba.

Dear Sirs

Re Manitoba Oil Shale Regulations  
42/64 - June 24, 1964

Manitoba Regulation 42/64, a regulation under The Mines Act to amend Manitoba Regulation 29/50, was filed on June 24, 1964 to provide regulations governing the disposition of oil shales in the Province of Manitoba. In essence Manitoba Regulation 42/64 parallel the Geological and Geophysical Reservations for conventional oil as set out in Section 44 to 52 of the Regulations under The Mines Act, 1954.

The oil shale rights granted under Manitoba Regulation 42/64 basically comprise the rights to the Vermillion River and Favel formations occurring at depths between 0 feet and 900 feet. The rights granted for oil shales differ greatly with the rights granted under the conventional oil and natural gas lease where all rights with the exception of oil shales are granted by lease under Section 29 of The Mines Act, 1964. *an amendment*

Oil shales in Manitoba can basically be explored by only two means.

1 by geological surface parties examining the outcrops of the formations.

*[Handwritten signatures and initials]*

2. by core hole drilling to obtain the information from one or more formations.

These two methods of exploration can be conducted in compliance with Section 192 C(1) (b) (1) of Manitoba Regulation 42/64. However, in the situation where the Favel formation underlies the Vermillion and it is desirable to obtain a core of the Favel in the same hole, a holder of an oil shales reservation immediately comes under Section 192 C (2). Section 192 C (2) may be circumvented by the drilling of a second core hole in the immediate vicinity of the outcrop of the Favel formation. The technique of coring should not result in a difference in work deposits when the same information can be obtained from either program. From an exploratory nature it is much more valuable to have the information from one continuous core through both the Vermillion and the Favel formations than to have the information from two core holes that could be separated by some considerable distance. In the southern portion of Manitoba the oil shales are basically located in drift covered areas. The surface exposures of the Vermillion River and Favel formations are limited to the immediate vicinity of the stream cuts. A core hole on the subcrop edge would not give a representative assay of the section due to weathering. Fresh core samples of the full unexposed sections would give a true assay of the commercial worth of the oil shales. This situation is graphically illustrated on the attached structural cross-section

The purpose of the exploratory core holes is to determine the optimum location of the oil shales for possible commercial production. The future pattern of coring may see a density of four or more core holes within one quarter section in order to determine the consistency of the oil shales. In the event a pilot plant was constructed it would be desirable to work both the Vermillion River and Favel formations from the same excavation. In order to fully evaluate the oil shale potential there should be no distinction made between geological investigations and geophysical or subsurface geology. A holder of an Oil Shales Reservation should not be penalized or forced into a higher deposit period in their attempts to evaluate these properties. We do not believe that it was the intent of the Department to impose this situation on the holders of Oil Shales Reservations.

The deposit of \$750.00/20,000 acres or a portion thereof now required for a geological investigation amounts to .03 3/4 cents per acre. This deposit exceeds the amount that could normally be expended for surface geological investigations on reservations of oil shales as defined by regulation. In order to expend this

3 3/4 ¢  
or  
\$.0375

*deduction not  
included ?*

course of one year, core hole drilling would be required on the oil shales properties. The present inequities in the definition of geophysical operations or investigations of subsurface geology should be removed from the oil shale regulations as all information obtained from these restricted rights is basically geological data. This could be accomplished by the following amendments to Manitoba Regulation 42/64

1. Delete Section 192 C (b) (ii).
2. Delete Section 192 C (2).
3. Delete the words "geophysical operations or" in the first line of Section 192 E together with the word "not" in the second line of Section 192 E

On the future renewals and extensions as set out in Section 192 K the reservation holder is at the mercy of the Director, the Minister and the Lieutenant-Governor-in-Council on work requirements. We are of the opinion that the work requirements for renewal granted by the Director and the extension granted by the Minister should be spelled out.

Under Section 192 K (2) the Director may renew a reservation for a further period of one year. No mention is made of the work requirements for this renewal. We respectfully suggest that the work deposit be identical to that required for the first year. Similarly on the extension granted under Ministerial discretion in Section 192 K (3) a work requirement of \$750.00/20,000 acres should be defined in addition to the fee of .05¢/acre. We are in agreement that any extensions granted by the Lieutenant-Governor-in-Council shall be on such terms and conditions as are deemed advisable. These work requirements may be spelled out by amending Sections 192 K (2) and 192 K (3)

Consideration should also be given to the grouping of reservations of oil shales for work requirements. Where a company holds two or more reservations they should be allowed to meet the required work requirements by doing the total work on one or more of the reservations. Due to the lack of contiguous oil shales holdings by the Government in the Province of Manitoba, particularly in the southern portions of the Province, the scattered Crown holdings make an exploratory work effort difficult to program. The principle of grouping large Reservation holdings has been accepted by the Provinces of Nova Scotia, Ontario, Saskatchewan, Alberta and British Columbia together with the Federal Government on their

April 30, 1965

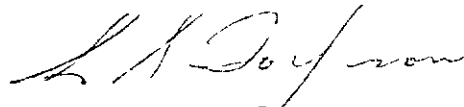
permits in the Yukon and Northwest Territories. This precedent has worked to the advantage of Government and industry by encouraging exploratory work on this type of acreage. We would suggest that Oil Shales Reservation holders be allowed to group a maximum of 300,000 acres of oil shale rights for exploratory work purposes. Provision for this addition may be accomplished by adding a new Section 192 S.

In the event the work deposits on future renewals and extensions granted by the Director and Minister are defined we would recommend that a carry over of the excess work credits may be applied to the work requirements in the succeeding years. Conversely, any under-expenditure on work requirements should be allowed to be carried forward into the succeeding year. Provision for this addition may be accomplished by adding a new Section 192 T.

We respectfully request your consideration and approval of the amendments to Manitoba Regulation 42/64 as described herein in order to assist and facilitate in the future exploration of the oil shales in the Province of Manitoba.

Yours very truly,

THE ATLANTIC REFINING COMPANY



L. S. Torlason  
District Landman

LST jb

p. c. to: **Mr. M. J. Gobert, Assistant Deputy Minister.**  
**Dr. J. F. Davies, Chief Geologist.**  
**Mr. T. Morgan, Chief Mining Recorder.**  
**Mr. F. S. Gamey, Reservoir Engineer.**



DEPARTMENT OF MINES AND NATURAL RESOURCES  
MINES BRANCH  
RECORDING DIVISION  
904 NORQUAY BUILDING  
401 YORK AVENUE WINNIPEG 1

December 14, 1964

The Atlantic Refining Company  
5th Floor, Hudson's Bay Oil & Gas Bldg.  
Calgary, Alberta

Gentlemen:

Attached Reservation of Oil Shale Rights Nos. 11, 12 and 13 issued in the name of your Company dated December 4, 1964.

Also enclosed Official Receipt Nos. G 12576 in the amount of \$250.00 covering application fee for Oil Shale Reservation No. 11, G 12577 in the amount of \$7,500.00 covering cash deposit on Oil Shale Reservation No. 11, G 12578 in the amount of \$250.00 covering application fee for Oil Shale Reservation No. 12, G 12579 in the amount of \$6,000.00 covering cash deposit on Oil Shale Reservation No. 12, G 12580 in the amount of \$250.00 covering application fee for Oil Shale Reservation No. 13 and G 12581 in the amount of \$3,000.00 covering cash deposit on Oil Shale Reservation No. 13.

Yours truly,

A handwritten signature in cursive script, appearing to read 'T. Morgan'.

T. Morgan  
Chief Mining Recorder

TM/ar  
Encs.

cc: Dr. J. F. Davies  
Chief Geologist



RESERVATION OF OIL SH L RIGHTS NO 11

In consideration of and subject to the provisos, conditions and restrictions hereinafter contained, permission is hereby granted to The Atlantic Refining Company, 5th Floor, Hudson's Bay Oil & Gas Bldg, 320 - 7th Avenue S W, Calgary, Alberta its successors and assigns, to carry on geological and geo-physical examinations or both, including investigations relating to subsurface geology on the following lands, namely

Township	Range
8 to 11 inclusive	11
8 to 11 inclusive	12
9 to 12 inclusive	13
10 to 15 inclusive	14
11 to 14 inclusive	15
11 to 14 inclusive	16
11 to 14 inclusive	17

all West of the Principal Meridian, containing 199,147 00 acres, more or less See Attached List

This reservation is subject in all respects to "The Mines Act" and Part X of Manitoba Regulation 29/50 governing the disposal of boring claims, and any amendments thereto, until the cash deposit required under Subsection 2 of Section 192C of the said regulation is made, the examination shall be restricted to surface geology.

Dated at Winnipeg this  
4th day of December, 1961.

*[Signature]*  
Director of Mines

Form with handwritten notes and stamps:

- Stamp: RECEIVED MAR 18 1966
- Stamp: INSPECTION DIVISION
- Text: To be retained by office of origin
- Text: To be sent to office of destination
- Text: (M) To be sent to office of destination
- Text: (M) To be sent to office of destination

RESERVATION O. 11

Township 8, Range 11 W P M

N $\frac{1}{2}$  Sec. 11, N W  $\frac{1}{4}$  Sec. 18, N W  $\frac{1}{4}$  Sec 20, E $\frac{1}{2}$  of N W  $\frac{1}{4}$  Sec 27, S W $\frac{1}{4}$  Sec. 28, All Secs 29, 30, 32, N.E  $\frac{1}{4}$  and S W  $\frac{1}{4}$  Sec. 34, N $\frac{1}{2}$  and S.W. $\frac{1}{4}$  Sec. 36.

Township 9, Range 11 W P M

N $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec. 1, All Secs 2 to 36 inclusive.

Township 10, Range 11 W P M.

All Sec. 2, E $\frac{1}{2}$  and S E. $\frac{1}{4}$  Sec. 3, All Sec. 4, N $\frac{1}{2}$  of N.E  $\frac{1}{4}$  and N $\frac{1}{2}$  of N W  $\frac{1}{4}$  Sec. 5, S W  $\frac{1}{4}$  Sec. 6, LSD 1 of Sec. 9, All Secs. 10 and 11, E $\frac{1}{2}$  and S W. $\frac{1}{4}$  Sec 14, LSD 13 of Sec 15, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec 16, E $\frac{1}{2}$  and N W  $\frac{1}{4}$  Sec. 18, N E  $\frac{1}{4}$  and S.W. $\frac{1}{4}$  Sec. 20, LSD 8 of Sec. 21, All Sec. 22, SE $\frac{1}{4}$  Sec. 27, All Secs. 28, 29, and 30, E $\frac{1}{2}$  Sec. 32, N W  $\frac{1}{4}$  Sec 34, N W  $\frac{1}{4}$  and E $\frac{1}{2}$  of N E  $\frac{1}{4}$  Sec 36.

Township 11, Range 11 W.P M

All Sec 1, N E  $\frac{1}{4}$  Sec. 2, N W  $\frac{1}{4}$  Sec. 4, W $\frac{1}{2}$  and LSD 7 and 10 of Sec. 5, N E. $\frac{1}{4}$  and S.W  $\frac{1}{4}$  Sec. 6, N $\frac{1}{2}$  Sec. 10, All Sec 11, E $\frac{1}{2}$  and S.W. $\frac{1}{4}$  Sec. 12, S W  $\frac{1}{4}$  Sec. 16, S L  $\frac{1}{4}$  Sec. 18 and S W. $\frac{1}{4}$  Sec 30.

Township 8, Range 12 W P.M.

All Secs. 2 to 34 inclusive and all Sec 36.

Township 9, Range 12 W P M.

All Secs 1 to 25 inclusive, N $\frac{1}{2}$  Sec. 26, All Secs. 27 to 30 inclusive, All Secs. 32 to 34 inclusive and 36

Township 10, Range 12 W P M.

All Secs 1 to 3 inclusive, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec 4, N $\frac{1}{2}$  Sec 6, S.W. $\frac{1}{4}$  Sec. 10, All Sec 11, N.E  $\frac{1}{4}$  Sec. 14, N $\frac{1}{2}$  Sec 16, N $\frac{1}{2}$  of N W  $\frac{1}{4}$  Sec 17, N $\frac{1}{2}$  Sec 18, All Sec 20, N W  $\frac{1}{4}$  Sec 21, LSD 5 of Sec. 21, All Sec. 24, N E  $\frac{1}{4}$  and S W  $\frac{1}{4}$  Sec. 28, All Sec. 29, N $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec 30, N.E  $\frac{1}{4}$  Sec. 32, All Sec. 34, N W. $\frac{1}{4}$  and S L  $\frac{1}{4}$  Sec. 36.

Township 11, Range 12 W P.M.

All Sec. 2, S $\frac{1}{2}$  and Pt. N $\frac{1}{2}$  Sec. 4, All Secs. 10 and 11, S W. $\frac{1}{4}$  Sec. 14, S $\frac{1}{2}$  of N.E  $\frac{1}{4}$  Sec 18, N W  $\frac{1}{4}$  Sec. 20, S E  $\frac{1}{4}$  Sec. 22, N E  $\frac{1}{4}$  Sec 26, All Secs 29, 30, S $\frac{1}{2}$  Sec 32, N E  $\frac{1}{4}$  Sec 34 and N $\frac{1}{2}$  Sec. 36.

Township 9, Range 13 W P M.

All Secs. 1 to 5 inclusive, W $\frac{1}{2}$  and N.E  $\frac{1}{4}$  Sec. 6, All Sec. 7, Secs 9 to 20 inclusive, E $\frac{1}{2}$  and S L. $\frac{1}{4}$  Sec. 21, All Secs 22 to 25 inclusive, N E. $\frac{1}{4}$  Sec. 26, E $\frac{1}{2}$  and S W. $\frac{1}{4}$  Sec 27, W $\frac{1}{2}$  and S E  $\frac{1}{4}$  Sec 28, All Secs. 29 to 31 inclusive, S $\frac{1}{2}$  Sec 32 and S $\frac{1}{2}$  Sec. 36

Township 10, Range 13 W P M.

S $\frac{1}{2}$  of S E  $\frac{1}{4}$  Sec. 1, N $\frac{1}{2}$  Sec 2, S.W. $\frac{1}{4}$  Sec. 6, All Secs. 10 to 12 inclusive, All Sec 14, E $\frac{1}{2}$  and S.W  $\frac{1}{4}$  Sec 16, E W  $\frac{1}{4}$  and S E. $\frac{1}{4}$  Sec. 20, W $\frac{1}{2}$  and S.E. $\frac{1}{4}$  Sec 22 All Sec 24, LSDs 1 and 2, and S $\frac{1}{2}$  of LSDs 7 and 8 of Sec 28, S $\frac{1}{2}$  Sec. 29, S.E  $\frac{1}{4}$  Sec. 30, E $\frac{1}{2}$  Sec 34, and W $\frac{1}{2}$  and N E. $\frac{1}{4}$  Sec. 36

Township 11, Range 13 W P M.

All Sec 2, S E  $\frac{1}{4}$  Sec. 3, LSDs 12 and 13 and W $\frac{1}{2}$  of LSDs 11 and 14 of Sec 5, All Secs 6, 10 and 11, N.W  $\frac{1}{4}$ , S.W  $\frac{1}{4}$ , W $\frac{1}{2}$  of S E  $\frac{1}{4}$  and W $\frac{1}{2}$  of N E. Sec 12, All Secs 14, 16, 18, 20 and 22, E $\frac{1}{2}$  Sec. 24, N.E. $\frac{1}{4}$  Sec 26, All Secs 28 and 29, S E  $\frac{1}{4}$  Sec 30, All Secs. 32, 33 34 and 36.

Township 10, Range 13 W.P.M.

All Secs 2 to 6 inclusive, Sec 8, Secs 10 to 12 inclusive, Secs 14 and 16, E $\frac{1}{2}$  Sec 18, All Secs 20, 22 and 24, N E  $\frac{1}{4}$  Sec 26, All Secs 28 and 29, S E  $\frac{1}{4}$  Sec 30, S W  $\frac{1}{4}$  Sec 31, All Secs 32, 34 and 36.

Township 10, Range 14 W.P.M.

Pt. E $\frac{1}{2}$  Sec 1, N W  $\frac{1}{4}$  and S E  $\frac{1}{2}$  Sec. 2, S $\frac{1}{2}$  Sec. 4, All Sec 5, W $\frac{1}{2}$  Sec 6, S W  $\frac{1}{4}$  Sec. 10, S E  $\frac{1}{4}$  and S E  $\frac{1}{2}$  Sec 11, S W  $\frac{1}{4}$  Sec. 16, N W  $\frac{1}{4}$  Sec. 22, E $\frac{1}{2}$  and N W  $\frac{1}{4}$  Sec 34 and N $\frac{1}{2}$  Sec 36

Township 11, Range 14 W.P.M.

S E  $\frac{1}{4}$  Sec. 2, All Secs 11 and 12, W $\frac{1}{2}$  and S.E. $\frac{1}{4}$  Sec 24, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec. 29

Township 12, Range 14 W.P.M.

All Secs. 11, 12, and 29, and S E  $\frac{1}{4}$  Sec. 36.

Township 13, Range 14 W.P.M.

N W  $\frac{1}{4}$  Sec 4, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec. 6, N W  $\frac{1}{4}$  Sec 10, All Secs 11 and 12, W $\frac{1}{2}$  and S E  $\frac{1}{4}$  Sec. 13, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec 14, All Secs 16, 17, 18, and 20, N W  $\frac{1}{4}$  Sec 22, All Secs 24 and 25, S E  $\frac{1}{4}$  and N E  $\frac{1}{4}$  Sec 26, All Secs 27, 28, and 29, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec 30, All Secs 32 to 36 inclusive.

Township 14, Range 14 W.P.M.

All Secs 2 and 3, E $\frac{1}{2}$  and S.W  $\frac{1}{4}$  Sec 4, All Secs. 10 and 11, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec. 12, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec. 18, N E  $\frac{1}{4}$  and S W  $\frac{1}{4}$  Sec 20, S E  $\frac{1}{4}$  and S W  $\frac{1}{4}$  Sec. 22, S W  $\frac{1}{4}$  Sec 24, S $\frac{1}{2}$  Sec 26, E $\frac{1}{2}$  and N W  $\frac{1}{4}$  Sec 29, N E  $\frac{1}{4}$  and S W  $\frac{1}{4}$  Sec. 30, N E  $\frac{1}{4}$  Sec. 34, and N E  $\frac{1}{4}$  Sec. 36

Township 15, Range 14 W.P.M.

N $\frac{1}{2}$  Sec 6, All Sec. 11, N E  $\frac{1}{4}$  Sec 14, N E  $\frac{1}{4}$  Sec 16, All Sec. 29 and N W.  $\frac{1}{4}$  Sec 36

Township 11, Range 15 W.P.M.

S $\frac{1}{2}$  Sec. 4, All Sec 6, N $\frac{1}{2}$  Sec 7, LSDs 6, 7 and 8 of Sec. 7, E $\frac{1}{2}$  and N W  $\frac{1}{4}$  Sec 11, S $\frac{1}{2}$  of S.W  $\frac{1}{4}$  Sec 17, S $\frac{1}{2}$  of Sec. 18, N.W  $\frac{1}{4}$  Sec 22, S W  $\frac{1}{4}$  Sec. 28, All Sec 29 and N E  $\frac{1}{4}$  Sec 30

Township 12, Range 15 W.P.M.

E $\frac{1}{2}$  Sec 6, All Sec 11, N $\frac{1}{2}$  Sec 14, All Sec 29, E $\frac{1}{2}$  Sec 34 and N W. $\frac{1}{4}$  Sec. 36

Township 13, Range 15 W.P.M.

All Sec 11, E $\frac{1}{2}$  Sec 12, S E  $\frac{1}{4}$  Sec. 21, N E. $\frac{1}{4}$  Sec 22 and All Sec 29.

Township 14, Range 15 W.P.M.

N W. $\frac{1}{4}$  Sec. 2, E $\frac{1}{2}$  Sec. 11, N $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec 29

Township 11, Range 16 W.P.M.

All Sec. 2, E $\frac{1}{2}$  and N W  $\frac{1}{4}$  Sec 10, All Secs. 11, 12 and 14, E $\frac{1}{2}$  and N W. $\frac{1}{4}$  Sec 16, E $\frac{1}{2}$  Sec 22, S E  $\frac{1}{4}$  Sec 24, N E  $\frac{1}{4}$  Sec. 26, All Sec 29, N.E  $\frac{1}{4}$  Sec. 31, N E  $\frac{1}{4}$  Sec 32, S E  $\frac{1}{4}$  Sec 34 and W $\frac{1}{2}$  Sec. 36

Township 12, Range 16 W.P.M.

S E  $\frac{1}{4}$  Sec 2, All Secs 11 and 29.

Township 13, Range 16 W P M

All Sec 11, N E  $\frac{1}{4}$  Sec 16, S W  $\frac{1}{4}$  Sec 18, S E  $\frac{1}{4}$  Sec. 25, W  $\frac{1}{2}$  and S.E  $\frac{1}{4}$  Sec. 29

Township 14, Range 16 W P M

S W  $\frac{1}{4}$  Sec 11

Township 11, Range 17 W P M.

N  $\frac{1}{2}$  Sec 11, S E  $\frac{1}{4}$  Sec. 18 and All Sec. 29.

Township 12, Range 17 W P M

S E  $\frac{1}{4}$  Sec. 4, E  $\frac{1}{2}$  Sec 11, S.E  $\frac{1}{4}$  Sec 24, N  $\frac{1}{2}$  Sec 28, All Sec. 29, N.W  $\frac{1}{4}$  Sec. 32 and S W  $\frac{1}{4}$  Sec. 36.

Township 13, Range 17 W P M

All Sec. 11, S E  $\frac{1}{4}$  Sec 18, All Sec. 29, S E.  $\frac{1}{4}$  Sec 32, S E  $\frac{1}{4}$  Sec 34.

Township 14, Range 17 W P M

S E  $\frac{1}{4}$  Sec. 4, N W  $\frac{1}{4}$  Sec. 6, S E  $\frac{1}{4}$  Sec 10, E  $\frac{1}{2}$  and N W  $\frac{1}{4}$  Sec 11, N E  $\frac{1}{4}$  Sec 16, S W  $\frac{1}{4}$  Sec. 28, All Sec. 29, and N  $\frac{1}{2}$  of E R Sec 31.

5

REGISTRATION OF OIL SURFACE RIGHTS NO 12

In consideration of and subject to the provisos,  
conditions and restrictions hereinafter contained, permission  
is hereby granted to The Atlantic Refining Company,  
5th Floor, Hudson's Bay Oil & Gas Bldg.,  
320 - 7th Avenue S W,  
Calgary, Alberta

its successors and assigns, to carry on geological and geo-  
physical examinations or both, including investigations relat-  
ing to subsurface geology on the following lands, namely

<u>Township</u>	<u>Range</u>
7	6
5 to 8 inclusive	7
5 to 9 inclusive	8
5 to 9 inclusive	9
5 to 10 inclusive	10
6, 7	11

all West of the Principal Meridian, containing 159,368 00 acres,  
more or less. See Attached List

This reservation is subject in all respects to "the  
Mines Act" and Part X of Manitoba Regulation 29/50 governing  
the disposal of boring claims, and any amendments thereto, un-  
til the cash deposit required under Subsection 2 of Section 192C  
of the said regulation is made, the examination shall be restricted  
to surface geology.

Dated at Winnipeg this  
1th day of December, 1964

W. H. H. H. H.  
Director of Mines.

RESERVATION 10 12

Township 7, Range 6 P 1

N  $\frac{1}{2}$  Sec 2, W $\frac{1}{2}$  Sec 4, W $\frac{1}{2}$  Sec 10, All Sec 11, S W  $\frac{1}{4}$  Sec 12, W $\frac{1}{2}$  and N E  $\frac{1}{4}$  Sec 14, N  $\frac{1}{2}$  Sec 16, All Secs 18, 20, 22, N E  $\frac{1}{4}$  Sec. 26, S $\frac{1}{2}$  Sec. 28, All Secs 29, 30, 32, 34 and N W  $\frac{1}{4}$  Sec 36

Township 5, Range 7 W P M.

S W  $\frac{1}{4}$  Sec 2, All Sec. 3, W $\frac{1}{2}$  and N E  $\frac{1}{4}$  Sec. 4, All Secs. 6, 7, 9, W $\frac{1}{2}$  and S E.  $\frac{1}{4}$  Sec 10, E $\frac{1}{2}$  and N W  $\frac{1}{4}$  Sec. 11, N W  $\frac{1}{4}$  Sec 12, N F  $\frac{1}{4}$  and S.W  $\frac{1}{4}$  Sec. 13, N F  $\frac{1}{4}$  Sec 14, N  $\frac{1}{2}$  Sec 16, S W  $\frac{1}{4}$  Sec. 17, S E - Sec 18, All Sec 20, W $\frac{1}{2}$  and S E  $\frac{1}{4}$  Sec 22, E $\frac{1}{2}$  and S  $\frac{1}{4}$  Sec. 24, S E  $\frac{1}{4}$  Sec. 25, All Secs. 28, 29, 30, W $\frac{1}{2}$  and S E  $\frac{1}{4}$  Sec 31, All Sec 32 and S $\frac{1}{2}$  Sec 35.

Township 6, Range 7 W P M

N $\frac{1}{2}$  Sec 1, N E  $\frac{1}{4}$  Sec 4, All Sec. 5, W $\frac{1}{2}$ , N E  $\frac{1}{4}$  and S $\frac{1}{2}$  of S.E - Sec. 6, All Sec 7, N.E  $\frac{1}{4}$  Sec 9, W $\frac{1}{2}$  and N E  $\frac{1}{4}$  Sec 10, All Secs 11, 13, S W  $\frac{1}{4}$  Sec. 20, N $\frac{1}{2}$  of N E  $\frac{1}{4}$  Sec 26, N E  $\frac{1}{4}$  and W $\frac{1}{2}$  of N W  $\frac{1}{4}$  Sec 28, N $\frac{1}{2}$  and N E.  $\frac{1}{4}$  Sec 29, N W  $\frac{1}{4}$  and S E  $\frac{1}{4}$  Sec. 30, W $\frac{1}{2}$  Sec. 32, W $\frac{1}{2}$  Sec. 34 and S $\frac{1}{2}$  Sec 36

Township 7, Range 7 W P 1.

All Sec 2, W $\frac{1}{2}$  and N E  $\frac{1}{4}$  Sec 4, S W  $\frac{1}{4}$  Sec 6, All Secs 10, 11, W $\frac{1}{2}$  and N E  $\frac{1}{4}$  Sec 12, All Secs 14, 16, 18, 20, 22, 24, N E  $\frac{1}{4}$  Sec 26, All Secs. 28, 29, 30, 32, 34 and 36

Township 8, Range 7 W P M.

All Secs 2, 4, 6, 10, 11, 12, 14, 16, 18, 20, 22, 24, N  $\frac{1}{2}$  Sec. 26, All Secs. 28, 29, 30, 32, W $\frac{1}{2}$  and S E.  $\frac{1}{4}$  Sec 34, All Sec 36

Township 5, Range 8 P 1

N $\frac{1}{2}$  Sec. 3, S W  $\frac{1}{4}$  Sec 7, All Sec 11, N E  $\frac{1}{4}$  Sec 12, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec 13, S E  $\frac{1}{4}$  and Pt N  $\frac{1}{4}$  Sec 14, Pt W $\frac{1}{4}$  and Pt S E  $\frac{1}{4}$  Sec 17, Pt S E  $\frac{1}{4}$  Sec 18, N E  $\frac{1}{4}$  Sec 21, N E  $\frac{1}{4}$  Sec 22, Pt Sec 23, E $\frac{1}{2}$ , N W  $\frac{1}{4}$  and Pt. S E  $\frac{1}{4}$  Sec 24, Pt N.W  $\frac{1}{4}$  Sec. 25, All Secs 27, 29, N  $\frac{1}{2}$  Sec 30, W $\frac{1}{2}$  and S E  $\frac{1}{4}$  Sec. 31, E $\frac{1}{2}$  and N.W  $\frac{1}{4}$  Sec 32, S W  $\frac{1}{4}$  Sec 33, N  $\frac{1}{2}$  Sec. 34, E $\frac{1}{2}$  and S E  $\frac{1}{4}$  Sec. 35 and All Sec. 36

Township 6, Range 8 P M

All Sec 1, W $\frac{1}{2}$  and N E  $\frac{1}{4}$  Sec 2, All Secs 3, 4, W $\frac{1}{2}$  and S E  $\frac{1}{4}$  Sec 5, All Sec 6, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec 7, All Secs 9, 10, 11, 12, E $\frac{1}{2}$  and W $\frac{1}{2}$  Sec 14, All Secs 16, 18, 20, 22, 24, E.  $\frac{1}{2}$  Sec 26, All Secs 28, 29, 30, 32, 34 and 36

Township 7, Range 8 W P M

All Secs 2, 4, 6, 10, 11, N $\frac{1}{2}$  Sec 12, W $\frac{1}{2}$  Sec 14, All Secs 16, 18, 20, 24, N E  $\frac{1}{4}$  Sec 26, W $\frac{1}{2}$  Sec 28, W $\frac{1}{2}$  and S E  $\frac{1}{4}$  Sec 29, S $\frac{1}{2}$  Sec 30, E $\frac{1}{2}$  Sec 32, All Secs 34 and 36

Township 8, Range 8 W P M

All Sec 2, E $\frac{1}{2}$  and S W  $\frac{1}{4}$  Sec 4, All Secs 10, 11, 12, 14, 16, N $\frac{1}{2}$  Sec 20, All Secs 22, 24, N E  $\frac{1}{4}$  Sec 26, All Secs 28, 27, S $\frac{1}{2}$  Sec 30, E $\frac{1}{2}$  Sec 32, All Sec 34 and 36

Township 9, Range 8 W P 1.

S $\frac{1}{2}$  of E $\frac{1}{2}$  Sec 1, S $\frac{1}{2}$  of S  $\frac{1}{2}$  and S $\frac{1}{2}$  of S  $\frac{1}{2}$  Sec 2, All Sec 11, Pt N $\frac{1}{4}$  Sec 14, N E  $\frac{1}{4}$  Sec. 26, E $\frac{1}{2}$  and W $\frac{1}{2}$  of N  $\frac{1}{4}$  Sec 28, All Sec 29, S E  $\frac{1}{4}$  and Pt S E  $\frac{1}{4}$  Sec 30

Township 5, Range 9 W.P.M.

Pt SW Sec 2, Pt NE and Pt SW $\frac{1}{4}$  Sec 3, SE $\frac{1}{4}$  Sec 6, NW $\frac{1}{4}$  and Pt NE $\frac{1}{4}$  Sec 10, All Sec 11, W $\frac{1}{2}$  and SW $\frac{1}{4}$  Sec 13, Pt W $\frac{1}{2}$  and Pt NE $\frac{1}{4}$  Sec 15, SW $\frac{1}{4}$  Sec 19, SW $\frac{1}{4}$  and Pt SW $\frac{1}{4}$  and Pt NE $\frac{1}{4}$  Sec 22, Pt N $\frac{1}{2}$  Sec. 24, Pt. Sec 27, All Sec 29, NW $\frac{1}{4}$  Sec 32 and W $\frac{1}{2}$  Sec. 33

Township 6, Range 9 W.P.M.

W $\frac{1}{2}$  Sec 1, E $\frac{1}{2}$  Sec. 2, All Secs. 3, 5, SW $\frac{1}{4}$  Sec 7, All Sec 11, E $\frac{1}{2}$  Sec 12, NE $\frac{1}{4}$  and SW $\frac{1}{4}$  Sec 13, SW $\frac{1}{4}$  Sec 14, SW $\frac{1}{4}$  and Pt NW $\frac{1}{4}$  Sec 15, SW $\frac{1}{4}$  Sec 18, Pt NE $\frac{1}{4}$  Sec 20, Pt. Sec 21, NE $\frac{1}{4}$  Sec 22, Pt Sec. 23, SE $\frac{1}{4}$  Sec 24, All Sec 25, E $\frac{1}{2}$  and NW $\frac{1}{4}$  Sec 28, All Sec 29, NE $\frac{1}{4}$  Sec. 32, All Secs 34 and 36

Township 7, Range 9 W.P.M.

All Sec 2, NE $\frac{1}{4}$  Sec. 6, E $\frac{1}{2}$  Sec. 9, All Secs. 10, 11, 12, N $\frac{1}{2}$  Sec. 14, All Sec 16, N $\frac{1}{2}$  Sec 18, All Secs. 22, 24, NE $\frac{1}{4}$  Sec 26, S $\frac{1}{2}$  Sec. 28, All Sec. 29, SW $\frac{1}{4}$  Sec. 30, NW $\frac{1}{4}$  and SW $\frac{1}{4}$  Sec. 36.

Township 8, Range 9 W.P.M.

NE $\frac{1}{4}$  Sec 11, SW $\frac{1}{4}$  Sec 16, S $\frac{1}{2}$  Sec 28, All Sec. 29, N $\frac{1}{2}$  Sec. 30, All Sec. 32 and NW $\frac{1}{4}$  Sec. 36

Township 9, Range 9 W.P.M.

SE $\frac{1}{4}$  Sec 7, Pt NE $\frac{1}{4}$  Sec 13, S $\frac{1}{2}$  and Pt NW $\frac{1}{4}$  Sec 14, W $\frac{1}{2}$  and NE $\frac{1}{4}$  Sec. 16, All Sec 18, SW $\frac{1}{4}$ , Pt NW $\frac{1}{4}$  and Pt SW $\frac{1}{4}$  Sec 20, SE $\frac{1}{4}$  Sec 23, NW $\frac{1}{4}$  and SW $\frac{1}{4}$  Sec. 24, NE $\frac{1}{4}$  Sec 26, All Sec 29, E $\frac{1}{2}$  and SW $\frac{1}{4}$  Sec 30, E $\frac{1}{2}$  Sec 34, and All Sec 36

Township 5, Range 10 W.P.M.

NW $\frac{1}{4}$  and SW $\frac{1}{4}$  Sec 2, W $\frac{1}{2}$  Sec 3, SW $\frac{1}{4}$  Sec 4, NW $\frac{1}{4}$  Sec 6, W $\frac{1}{2}$  Sec. 7, All Sec. 11, E $\frac{1}{2}$  Sec 12, N $\frac{1}{2}$  Sec 13, SW $\frac{1}{4}$  Sec 18, SW $\frac{1}{4}$  Sec 22, W $\frac{1}{2}$  Sec 27, All Sec. 29, NW $\frac{1}{4}$  Sec 31, E $\frac{1}{2}$  Sec 32, S $\frac{1}{2}$  and NW $\frac{1}{4}$  Sec 33 and NW $\frac{1}{4}$  Sec. 36

Township 6, Range 10 W.P.M.

E $\frac{1}{2}$  and NW $\frac{1}{4}$  Sec 1, NE $\frac{1}{4}$  Sec. 2, SW $\frac{1}{4}$  Sec 5, All Sec. 11, NW $\frac{1}{4}$  Sec 18, E $\frac{1}{2}$  Sec 19, SW $\frac{1}{4}$  Sec 20, SW $\frac{1}{4}$  Sec. 28, All Sec 29, and W $\frac{1}{2}$  Sec 31.

Township 7, Range 10 W.P.M.

N $\frac{1}{2}$  Sec 2, E $\frac{1}{2}$  of SW $\frac{1}{4}$  Sec. 10, All Sec 11, N $\frac{1}{2}$  Sec 12, SE $\frac{1}{4}$  Sec 14, SE $\frac{1}{4}$  Sec 18, SE $\frac{1}{4}$  Sec 20, NW $\frac{1}{4}$  and SW $\frac{1}{4}$  Sec. 24, and S $\frac{1}{2}$  Sec. 29.

Township 8, Range 10 W.P.M.

SE $\frac{1}{4}$  Sec 11, SW $\frac{1}{4}$  Sec. 29, and NE $\frac{1}{4}$  Sec 31

Township 9, Range 10 W.P.M.

E $\frac{1}{2}$  Sec 2, All Secs 6, 10, 11, 12, 14, W $\frac{1}{2}$ , NE $\frac{1}{4}$  and Pt SW $\frac{1}{4}$  Sec. 16, All Secs 18, 19, W $\frac{1}{2}$ , SE $\frac{1}{4}$  and NW $\frac{1}{4}$  of E $\frac{1}{2}$  Sec 20, All Secs. 22, 24, NE $\frac{1}{4}$  and SW $\frac{1}{4}$  Sec. 25, NE $\frac{1}{4}$  Sec 26, SE $\frac{1}{4}$  Sec. 27, All Secs. 28, 29, 30, 32, 33, 34 and W $\frac{1}{2}$  Sec. 36

Township 10, Range 10 W.P.M.

All Secs 2, 3, 4, 5, SE $\frac{1}{4}$  Sec 6, All Secs 10, 11, 12, 14, SW $\frac{1}{4}$  Sec. 15, E $\frac{1}{2}$  Sec. 16, W $\frac{1}{2}$  and NW $\frac{1}{4}$  Sec. 20, All Secs. 22, 24, 25, 28, 29, 32, 34 and 36

Township 6, Range 11 W.P.M.

All Sec 1, W $\frac{1}{2}$  and NE $\frac{1}{4}$  Sec 2, All Sec. 3, E $\frac{1}{2}$  Sec 4, W $\frac{1}{2}$  and NE $\frac{1}{4}$  Sec. 5, NW $\frac{1}{4}$  Sec 6, E $\frac{1}{2}$  and NW $\frac{1}{4}$  Sec. 7, N $\frac{1}{2}$  and SW $\frac{1}{4}$  Sec 10, All Sec. 11, W $\frac{1}{2}$  and NE $\frac{1}{4}$  Sec 12, All Sec 14, E $\frac{1}{2}$  Sec 16, SW $\frac{1}{4}$  Sec 18, W $\frac{1}{2}$  and NE $\frac{1}{4}$  Sec 20, E $\frac{1}{2}$  and NW $\frac{1}{4}$  Sec 22, All Sec 24, E $\frac{1}{2}$  Sec. 26, All Secs 29, 30, E $\frac{1}{2}$  Sec. 34, S $\frac{1}{2}$  Sec. 36.

RESERVATION NO 12

3

Township 7, Range 11 W P

S $\frac{1}{4}$  Sec 2, NW $\frac{1}{4}$  Sec 10, W $\frac{1}{2}$  Sec 11 and S $\frac{1}{4}$  Sec. 14.



THE ATLANTIC REFINING COMPANY

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STATEMENT OF EYPLORATORY EXPENDITURES INCURRED BY  
THE ATLANTIC REFINING COMPANY FROM JUNE 7, 1965 TO  
SEPTEMBER 11, 1965, ON MANITOBA OIL SHALE RESERVATIONS  
11, 12 AND 13 IN THE NORTHWEST TERRITORIES OF CANADA

---

LYBRAND, ROSS BROS & MONTGOMERY  
CERTIFIED PUBLIC ACCOUNTANTS  
DALLAS OFFICE

LYBRAND, ROSS BROS & MONTGOMERY

COOPERS & LYBRAND  
IN AREAS OF THE WORLD  
OUTSIDE THE UNITED STATES

FIRST NATIONAL BANK BUILDING  
DALLAS 2

EXHIBIT "A"

The Atlantic Refining Company,  
Dallas, Texas

We have examined the books and records in connection with expenditures totaling \$22,283 97 made on the Manitoba Oil Shale Reservations 11, 12 and 13 relating to the Northwest Territories by The Atlantic Refining Company during the period June 7, 1965 to September 11, 1965. Our examination included a review of invoices and vouchers applicable to these expenditures.

In our opinion, the accompanying statement of expenditures relating to the Northwest Territories for the period June 7, 1965 to September 11, 1965, presents fairly the expenditures made in the period, according to the best of our information and the explanations given to us and as shown by the books of the Company.

We are not employees or members of The Atlantic Refining Company.

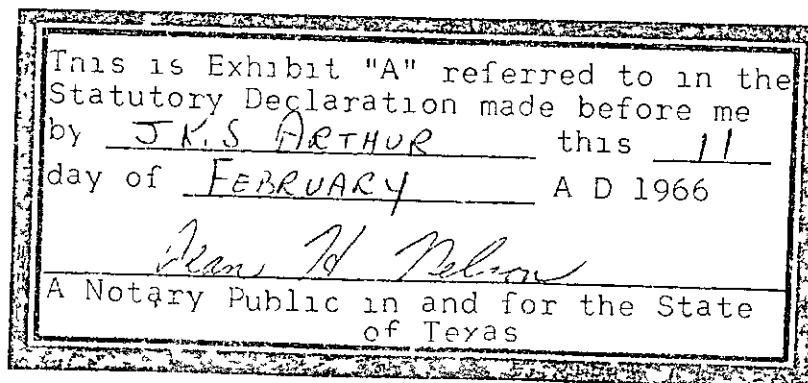
  
LYBRAND, ROSS BROS & MONTGOMERY

Dallas, Texas,  
January 6, 1966

THE ATLANTIC REFINING COMPANY  
SUMMARY OF COST MANITOBA OIL SHALE PROJECT  
FROM JUNE 7, 1965 TO SEPTEMBER 11, 1965

Geological Cost	\$ 2,219.82
Drilling Cost	13,095.06
Logging Costs	3,065.00
Survey Costs	270 00
Laboratory Assay Costs	3,634.09
 	<hr/>
Total Expenses on Manitoba Oil Shale Project	\$22,283.97
	<hr/> <hr/>

JLR mb  
12-22-65



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RESERVATION OF OIL SHALE RIGHTS NO 13

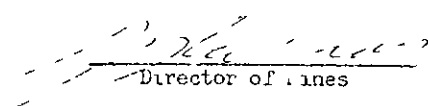
In consideration of and subject to the provisos,  
conditions and restrictions hereinafter contained, permission  
is hereby granted to           The Atlantic Refining Company,  
5th Floor, Husson's Bay Oil & Gas Bldg ,  
320 - 7th Avenue S W ,  
Calgary, Alberta  
its successors and assigns, to carry on geological and geo-  
physical examinations or both, including investigations relating  
to subsurface geology on the following lands, namely

<u>Township</u>	<u>Range</u>
1 & 2	4
1 to 3 inclusive	5
1 to 6 inclusive	6
1 to 4 inclusive	7
1 to 4 inclusive	8
3 & 4	9
4	10

all west of the Principal Meridian, containing 75,650 00 Acres,  
more or less   See Attached List

This reservation is subject in all respects to "The  
Mines Act" and Part X of Manitoba Regulations 29/50 governing  
the disposal of boring claims, and any amendments thereto, until  
the cash deposit required under Subsection 2 of Section 192C of  
the said regulation is made, the examination shall be restricted  
to surface geology.

Dated at Winnipeg this  
4th day of December, 1964

  
\_\_\_\_\_  
Director of Mines

RESERVATION NO 13

Township 1, Range 4 W P M

W<sub>2</sub> Sec 29

Township 2, Range 4 W P M

S W<sub>4</sub> Sec 11

Township 1, Range 5 W P M

All Secs 3, 5, 6, 7, 9, N<sub>2</sub> Sec 11, N W<sub>4</sub> Sec 15, N W<sub>4</sub> and S.E<sub>4</sub> Sec 16,  
All Secs 17, 18, 19, E<sub>4</sub> and S W<sub>4</sub> Sec 20, S W<sub>4</sub> Sec 21, N.E.<sub>4</sub> Sec 27, All  
Sec 29, S<sub>4</sub> Sec 30, N W<sub>4</sub> Sec 31, W<sub>2</sub> Sec 32 and N W<sub>4</sub> Sec 33.

Township 2, Range 5 W P M

Pt. 1 E.<sub>4</sub> Sec 4.

Township 3, Range 5 W P M

N E<sub>4</sub> Sec 11

Township 1, Range 6 W P M

All Secs 1, 2, 3, N E<sub>4</sub> Sec 4, All Secs 5, 6, 7, 9, 10, 11, 12, 13, 14,  
15, S<sub>2</sub> Sec 16, All Sec 17, E<sub>2</sub> and S W<sub>4</sub> Sec 18, All Secs 19, 20, 21, S<sub>2</sub>  
Sec 22, All Secs 23, 24, 25, 27, S<sub>2</sub> Sec 28, All Secs. 29, 30, 31, 32, 33,  
N E<sub>4</sub> Sec 34 and E<sub>4</sub> Sec 36

Township 2, Range 6 W P M

All Sec 11, Pt S<sub>2</sub> Sec 20, Pt N.E<sub>4</sub> Sec 21, N W<sub>4</sub> Sec. 27 and Pt S E<sub>4</sub>  
Sec. 28

Township 3, Range 6 W P M

N W<sub>4</sub> Sec. 12, S<sub>4</sub> Sec 13, All Sec 29, S W<sub>4</sub> and Pt. N E<sub>4</sub> Sec. 32

Township 4, Range 6 W P M

S.E.<sub>4</sub> Sec 2, Pt S W<sub>4</sub> Sec 5, Pt N.W<sub>4</sub> Sec 6, Pt Sec. 7, Pt N E<sub>4</sub> Sec  
9, E<sub>4</sub> and N W<sub>4</sub> Sec 11, All Sec 29, and Pt N E<sub>4</sub> Sec. 31

Township 5, Range 6 W P M

Pt S.E<sub>4</sub> Sec 6, and N<sub>2</sub> Sec 29

Township 6, Range 6 W P M

All Sec 7, W<sub>2</sub> Sec 16, SW<sub>4</sub> Sec 18, SE<sub>4</sub> Sec 20, All Sec 29, SW<sub>4</sub> Sec 30,  
E<sub>4</sub> Sec. 32 and W<sub>2</sub> Sec 34

Township 1, Range 7 W P M

S<sub>2</sub> Sec 1, S<sub>2</sub> Sec 2, S<sub>4</sub> Sec 4, All Secs 9, 11, E<sub>4</sub> and W<sub>4</sub> Sec 12, All  
Secs 13, 14, W<sub>2</sub> Sec 15, N<sub>2</sub> Sec 16, All Sec 17, N<sub>2</sub> Sec 18, All Sec 19,  
W<sub>2</sub> Sec 21, E<sub>4</sub> and W<sub>4</sub> Sec 22, All Sec 23, E<sub>4</sub> and SW<sub>4</sub> Sec 24, N.E.<sub>4</sub> Sec 26,  
E<sub>4</sub> and SW<sub>4</sub> Sec 28, All Secs 29, 30, W<sub>2</sub> Sec 32, All Secs 33, 34, and S<sub>4</sub>  
Sec 36

Township 2, Range 7 W P M

Pt N.E.<sub>4</sub> Sec 1, All Sec 4, E<sub>4</sub> and S<sub>4</sub> Sec 5, All Sec 6, N.E.<sub>4</sub> Sec 7, Pt  
S<sub>4</sub> and Pt N<sub>4</sub> Sec 9, All Sec 11, Pt N<sub>4</sub> and Pt SW<sub>4</sub> Sec 16, S<sub>4</sub> and Pt  
W<sub>4</sub> Sec 17, E<sub>4</sub> and NW<sub>4</sub> Sec. 18

Township 3, Range 7 W P M

N E  $\frac{1}{4}$  Sec 16, N W  $\frac{1}{4}$  Sec 18, All Sec. 29, N E  $\frac{1}{2}$  Sec. 35, and Pt N W  $\frac{1}{4}$  Sec 36

Township 4, Range 7 W P M

Pt. N E  $\frac{1}{4}$  and Pt S W  $\frac{1}{4}$  Sec 1, Pt E  $\frac{1}{2}$  Sec 2, N  $\frac{1}{2}$  Sec. 6, S W  $\frac{1}{4}$  Sec 11, Pt E  $\frac{1}{2}$  Sec. 12, Pt S E  $\frac{1}{4}$  Sec 13, Pt S W  $\frac{1}{4}$  Sec 17, W  $\frac{1}{2}$  and N E  $\frac{1}{2}$  Sec. 18, N  $\frac{1}{2}$  and S E  $\frac{1}{4}$  Sec. 24, S W  $\frac{1}{4}$  Sec. 25, N E  $\frac{1}{4}$  Sec 26, All Sec 29, N E  $\frac{1}{4}$  and S W  $\frac{1}{4}$  Sec 32, E  $\frac{1}{2}$  Sec 33, N  $\frac{1}{2}$  Sec. 34, W  $\frac{1}{2}$  and S E  $\frac{1}{4}$  Sec. 35.

Township 1, Range 8 W P M

SE  $\frac{1}{4}$  Sec 9, NE  $\frac{1}{4}$  Sec. 10, All Sec 11, E  $\frac{1}{2}$  Sec 13, N W  $\frac{1}{4}$  Sec 15, E  $\frac{1}{2}$  and S  $\frac{1}{2}$  Sec 16, E  $\frac{1}{2}$  and NW  $\frac{1}{4}$  Sec 17, NE  $\frac{1}{2}$  Sec 18, E  $\frac{1}{2}$  Sec 20, N  $\frac{1}{2}$  Sec 22, NW  $\frac{1}{4}$  Sec 23, N  $\frac{1}{2}$  Sec 24, W  $\frac{1}{2}$  Sec 27, All Sec. 29, and W  $\frac{1}{2}$  Sec 33

Township 2, Range 8 W P M

SW  $\frac{1}{4}$  Sec 5, W  $\frac{1}{2}$  Sec 7, All Sec. 11, SE  $\frac{1}{4}$  Sec 12, S  $\frac{1}{2}$  Sec 17, E  $\frac{1}{2}$  of NW and E  $\frac{1}{2}$  of SW  $\frac{1}{4}$  Sec. 27, N  $\frac{1}{2}$  Sec 29, and W  $\frac{1}{2}$  Sec 36

Township 3, Range 8 W P M

W  $\frac{1}{2}$  Sec 1, NE  $\frac{1}{4}$  Sec 4, All Sec 11 and SE  $\frac{1}{4}$  Sec 29

Township 4, Range 8 W P M

E  $\frac{1}{2}$  and NW  $\frac{1}{4}$  Sec. 11, Pt NE  $\frac{1}{4}$  Sec 13, All Sec. 29, and SW  $\frac{1}{4}$  Sec 36

Township 3, Range 9 W P M

N  $\frac{1}{2}$  of SW  $\frac{1}{4}$  Sec 3, All Sec 4, E  $\frac{1}{2}$  and SW  $\frac{1}{4}$  Sec 9, W  $\frac{1}{2}$  and SE  $\frac{1}{4}$  Sec 10, NE  $\frac{1}{4}$  and SW  $\frac{1}{4}$  Sec 11, E  $\frac{1}{2}$  Sec 15, W  $\frac{1}{2}$  of NW  $\frac{1}{4}$  Sec 16, E  $\frac{1}{2}$  and SW  $\frac{1}{4}$  Sec 17, SE  $\frac{1}{4}$  Sec. 18, SE  $\frac{1}{4}$  Sec 20, SW  $\frac{1}{4}$  Sec 29, NW  $\frac{1}{4}$ , SE  $\frac{1}{4}$  and Pt SW  $\frac{1}{4}$  Sec 30

Township 4, Range 9 W P M

SE  $\frac{1}{4}$  Sec 6, NW  $\frac{1}{4}$  Sec 7, NE  $\frac{1}{4}$  Sec 11, N  $\frac{1}{2}$  Sec 23, E  $\frac{1}{2}$  and NW  $\frac{1}{4}$  Sec. 29, NE  $\frac{1}{4}$  Sec 30, and E  $\frac{1}{2}$  Sec 31

Township 4, Range 10 W P M

W  $\frac{1}{2}$  and NE  $\frac{1}{4}$  Sec 1 Pt. E  $\frac{1}{2}$  Sec 10, All Sec 11, Pt NW  $\frac{1}{4}$  Sec 12, S  $\frac{1}{2}$  Sec. 15, NE  $\frac{1}{4}$  and Pt NW  $\frac{1}{4}$  Sec. 17, NE  $\frac{1}{2}$  and Pt NW  $\frac{1}{4}$  Sec 18, N  $\frac{1}{2}$  Sec 19, NE  $\frac{1}{4}$  and N  $\frac{1}{2}$  of SE  $\frac{1}{4}$  Sec 20, SE  $\frac{1}{4}$  Sec 21, SW  $\frac{1}{4}$  Sec 22, E  $\frac{1}{2}$  and SW  $\frac{1}{4}$  Sec 23, SE  $\frac{1}{4}$  Sec 24, NW  $\frac{1}{4}$  Sec 27, SW  $\frac{1}{4}$  Sec 28, All Sec 29, NE  $\frac{1}{4}$  Sec 30, S  $\frac{1}{2}$  Sec 31 and NW  $\frac{1}{4}$  Sec 35

*Handwritten notes:*  
11/11/1911  
11/11/1911  
11/11/1911

October 21, 1944

Dear Mr. [Name obscured]  
I have your letter of October 17, 1944.

Enclosed

is a copy of the report of the [Name obscured] dated October 15, 1944.

The report contains a detailed description of the [Name obscured] and the results of the [Name obscured] conducted on October 14, 1944. It is believed that the [Name obscured] is a [Name obscured] of the [Name obscured] and is of great interest to you.

Very truly yours,

J. Edgar Hoover  
Director

JEF: [Name obscured]

cc: Mr. J. P. [Name obscured]  
Mr. [Name obscured]

June 10, 1955

Dear Mr. [Name]:  
I am writing to you regarding the [Subject].  
I have reviewed the [Subject] and [Subject].  
I am pleased to [Subject].

Financial Statement

Dear Mr. [Name]:

Enclosed for you are 14 copies of the [Subject] for the period [Subject] to [Subject].  
The [Subject] for the period [Subject] to [Subject] is [Subject].

The [Subject] for the period [Subject] to [Subject] is [Subject].  
The [Subject] for the period [Subject] to [Subject] is [Subject].  
The [Subject] for the period [Subject] to [Subject] is [Subject].  
The [Subject] for the period [Subject] to [Subject] is [Subject].  
The [Subject] for the period [Subject] to [Subject] is [Subject].  
The [Subject] for the period [Subject] to [Subject] is [Subject].

For the period No. 11	12,500.00
" " " " " "	1,000.00
" " " " " "	1,000.00
Total	14,500.00

Sincerely,  
[Signature]

[Name]  
[Address]



March 17, 1900

The Atlantic Refining Company  
5th Floor - Atlantic Ref. Oil & Gas Bldg.  
220-7th Avenue S. W.  
Calgary, Alberta

Attention: L. S. Torrance

Dear Sir

Attached Province of Alberta cheque T 6530 is the amount of  
\$10,500.00.

The necessary documents were received by the Director of Mines  
concerning exploratory work done on Oil Sale License Nos. 11, 12  
and 13. The deposit on this exploration is returned in the above  
cheque.

Yours truly,

T. Morgan  
Cal. of Mining Secretary

T/M  
Incl.