

Oil Shale Reservations

Nos. 1-13

General

Correspondence

# Oil shale Reservations

<u>No</u>	<u>Co</u>	<u>File No</u>
1	Sum Del	62957
2	"	62958
3	"	62959
4	"	62960
5	"	62961
6	"	62962
7	"	62963
8	"	62964
9	Aquitane	63165
10	Sum	63420
11	Atlantic	63456
12	"	63457
13	"	63458

Mining Recording Office

Province of  Saskatchewan

DEPARTMENT OF NATURAL RESOURCES

REFER TO FILE

Saskatchewan Resources Building,  
Regina, Saskatchewan,  
April 5, 1951.

Dr. J. D. Allan,  
Chief Geologist,  
Department of Mines and Natural Resources,  
Winnipeg, Manitoba.

Dear Don

Thanks for your letter of April 4th regarding possible oil seepages in the Pasqua Hills area of Northern Saskatchewan. It has been passed on to me for reply.

These reports are not entirely new but to my knowledge have not been investigated. If you obtain any further information, I would appreciate your passing it along. We may have one of our geologists make a reconnaissance trip into that general area next summer.

Apparently a porous shale member of the Boyne formation has oil showings at Kamsack. Gas is produced from this horizon and probably corresponds to the 1st white speck zone of the upper cretaceous. Therefore, it is quite possible that minor seepages do occur up dip where the formation is exposed.

Best wishes,

Yours very truly,

*Harold M*

Dr. Harold F. Morrow,  
Chief Geologist.

HFM:js

PASQUA HILLS  
CIA

April 4, 1951

Mr. J. T. Cawley,  
Director of Resources,  
Department of Natural Resources and  
Industrial Development,  
REGINA, Saskatchewan.

Dear Jim:

Last fall I had some correspondence with Mr. F. B. Chalmers who is Supervisor for the Northern Resources Area of the Manitoba Government, regarding a report in The Pas newspaper that a local citizen knew of oil seepages in that vicinity. As his remarks may be of interest to you, I will quote from his last memo.

"With regard to your remarks that Zaceas Buck, an Indian trapper of The Pas had reported oil seepages in the Northern Mail, I have some knowledge of this report, as Mr. Buck called at this office to discuss the matter.

"The seepages, according to him, are in the Pasquia Hills in Northern Saskatchewan and it is approximately a week's journey from The Pas to the area and back. He had not seen these oil seepages for about four years but claims that to his knowledge they have been known to the Indians for many years. When I found that they were located in Saskatchewan I did not follow the matter up any further.

"If you are interested and there is more detail required I shall be pleased to see Mr. Buck again,

(over)

November 14, 1950

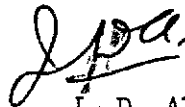
Mr. F. B. Chalmers,  
Supervisor of Resources,  
THE PAS, Manitoba

Dear Mr. Chalmers:

We are presently preparing mineral sets so I hope to be able to send these sets you requested in the near future.

Some time ago in "The Northern Mail" there was a report that Zaceas Buck, an Indian trapper of The Pas area, had found oil seepage within 40 miles of The Pas. The report said that he had offered to guide members of the Provincial Government Survey and California Standard Geologists to the showings. Both our field men and the California Standard geologists say that they heard rumours of this seepage but were unable to find anyone who knew much about it. If you get any more detail on the subject or a sample of oil from it, I would greatly appreciate receiving it.

Yours very truly,



J. D. Allan,  
Chief Geologist

JDA:G

INTER-DEPARTMENTAL

## MEMORANDUM



PROVINCE OF MANITOBA

FROM

F.B. Chalmers, Supervisor,  
Northern Resources Area.

TO

J. Richards, Director of Mines.

ATTENTION

J.D. Allan.

SUBJECT

Re Oil Seepages

DATE

17 November, 1950.

I am pleased to receive your memorandum of November 14 advising that mineral sets are being prepared and that they may be available for distribution to some of our field men in the near future.

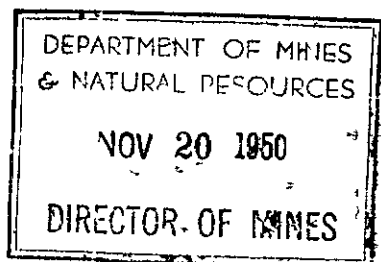
"With regard to your remarks that Zaceas Buck, an Indian trapper of The Pas had reported oil seepages in the Northern Mail, I have some knowledge of this report, as Mr. Buck called at this office to discuss the matter.

"The seepages, according to him, are in the Pasquia Hills in Northern Saskatchewan and it is approximately a week's journey from The Pas to the area and back. He had not seen these oil seepages for about four years but claims that to his knowledge they have been known to the Indians for many years. When I found that they were located in Saskatchewan I did not follow the matter up any further.

"If you are interested and there is more detail required I shall be pleased to see Mr. Buck again, although he does not have any samples of oil and in order for him to get this an expedition would have to be financed to take Mr. Buck into the area. I am very doubtful as to how reliable Mr. Buck is, although the matter may be worthwhile following up next summer. "

F.B. Chalmers,  
Supervisor.

FBC/llr



COPY

February 7, 1966

J. S. Richards,  
Director of Mines.

Mr. Stuart Anderson,  
Deputy Minister.

Amendment to the  
Oil Shale Regulations.

Page 2 of the Cabinst. paper, relative to the above subject, originally forwarded with my memo of February 2nd, has been redrafted in accordance with your verbal request. Nineteen copies are attached hereto.

JSR/or

J. S. Richards

Encs.

c.c. to: Honourable Sterling R. Lyon, Q.C.,  
Minister of Mines and Natural Resources.

Mr. M. J. Gobert,  
Assistant Deputy Minister

Mr. T. Morgan,  
Chief Mining Recorder

DEPARTMENT OF MINES AND TECHNICAL SURVEYS  
FEB 8 - 1966  
ASSISTANT DEPUTY MINISTER'S OFFICE

COPY

February 2, 1966.

J. S. Richards,  
Director of Mines

Mr. Stuart Anderson,  
Deputy Minister.

Amendment to the  
Oil Shale Regulations.

Attached, hereto, the following:

1. Cabinet Paper;
2. Recommendation-to-Council and Schedule,  
re a suggested amendment to the Oil Shale Regulations.

This amendment authorizes the issuance of reservations which will grant the right to prospect for phosphate deposits under the same terms and conditions as those applicable to the Oil Shale Regulations.

You will note that the Recommendation-to-Council and Schedule have been approved by the Attorney-General's Department.

JSR:db

J. S. Richards.

Encs.

c. c. to: Honourable Sterling R. Lyon, Q.C.,  
Minister of Mines and Natural Resources.

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

FEB 2 - 1966  
 ASSISTANT DEPUTY MINISTER  
 OFFICE



CABINET PAPER

February 1, 1966.

DEPARTMENT OF MINES AND NATURAL RESOURCES

SUBJECT:

A proposed amendment to the oil shale regulations which would authorize the granting of reservations for the purpose of searching for phosphate deposits under the same terms and conditions as those pertaining to reservations for oil shale.

BACKGROUND:

In June, 1964, Regulations were passed prescribing the terms and conditions under which prospecting for oil shale on Crown lands could be carried out, and stipulating that, if the prescribed amount of work is completed, the holder of an oil shale reservation shall have the right to acquire a lease of 10% of the tract contained in the reservation. Three oil companies acquired oil shale reservations, in accordance with these Regulations, and preliminary field and laboratory investigations have been undertaken.

An application has been received from Mr. John C. Blair, Calgary, Alberta, for the right to prospect, in Township 25, Ranges 20, and 21, W.F.M., for commercial deposits of phosphate within the shales comprising the Manitoba escarpment. Mr. Blair is not a professional man nor, as far as we are aware, is he associated with any established company. He apparently is acting on behalf of himself and a few associates.

Mr. Blair has been advised that Township 25, Range 21, W., is part of a reservation within which the oil shale rights have been granted to Sun Oil Company; and, also, that, as his work (probably in the same shale) could conflict with the work being done by Sun Oil, we feel his application should not be approved in respect to this township. Mr. Blair has elected to carry out exploration only in Township 25, Range 20, W., and requested first refusal on Township 25, Range 21, W.

Although formal grants for the right to prospect for phosphate have never been issued by this department, the possibility that such deposits occur in the shales of the Manitoba escarpment has been recognized for many years. Several unsuccessful attempts have been made to locate phosphate occurrences in these shales.

PROPOSAL:

That the Oil Shale Regulations be amended to authorize the granting of reservations for the purpose of searching for phosphate deposits under the same terms and conditions as those pertaining to reservations for oil shale.

February 1, 1966.

If this proposal is approved it will mean that Mr. Blair would pay a fee of \$250.00, and post a cash deposit of \$750.00 as a guarantee of an expenditure of an equivalent sum in prospecting for phosphate deposits in Township 25, Range 20W. This township contains 10,400 acres of Crown mineral rights. This is not a very large expenditure, but it is equivalent to that required for oil shale exploration, in respect to 20,000 acres. As previously stated, no phosphate occurrence is known which has any economic interest. One occurrence of academic interest (a narrow layer of fish bones) has been reported. Therefore, surface prospecting and sampling is the logical initial approach; if this approach fails the venture will be abandoned. The requirements of the other forms of disposition provided for by the regulations under The Mines Act would, in our opinion, be unreasonable if applied to this type of venture. The area applied for is equivalent to 208 mining claims. If these rights were granted in the form of mining claims an exploration expenditure of \$15,000 to \$16,000 would be required. If these rights were granted in the form of a potash permit an annual expenditure of \$40,000 for the drilling of wells would be required.

The terms and conditions of any lease which may be issued under these regulations are such as the Minister of Mines and Natural Resources may prescribe. Consequently, should a phosphate deposit, with an economic potential, be discovered, its further development may be controlled by the conditions and stipulations which form part of the lease.

RECOMMENDATION:

That the Recommendation-to-Council and Schedule attached thereto, which provides for these amendments, be approved.

Sterling R. Lyon,  
Minister of Mines and  
Natural Resources.

2--Cabinet Paper

February 1, 1966.

RECOMMENDATION:

That the Recommendation-to-Council and Schedule attached thereto, which provides for these amendments, be approved.

Sterling R. Lyon,  
Minister of Mines and Natural  
Resources.

REPLACED BY SHEET ABOVE.

Mineral Resources.

subsection (1) of Section 7 of the same Act, being Chapter 116 of the Revised Statutes of Manitoba, 1936, provides, in part, as follows:

7. (1) The Lieutenant-Governor-in-Council may make such regulations and orders not inconsistent with this Act, so far as necessary to carry out the provisions of this Act or The Manitoba Mineral Resources Act according to their obvious intent or to meet cases which may arise and for which no provision is made in this Act or in that Act; and, without restricting the generality of the above provisions, may make regulations and orders for

(a) the leasing of mineral locations; but in cases where surface rights of such locations have been disposed of, provisions shall be made for the protection and maintenance of the holders of the surface rights in so far as they may be prejudicially affected;

(b) prescribing the land subject to be staked or acquired as mineral locations, the size, manner of staking, and their terms, the method of recording and granting the title thereto, the mode of transfer thereof, and the recording of the documents affecting the title thereof, the work required to be done thereon to obtain title, the question of appeals to the Minister from the decisions of the officers administering this Act, and the extension of time for the doing of the work required;

On 19/12/38, the Lieutenant-Governor-in-Council has made a regulation respecting the leasing of mineral locations and matters relating thereto, which regulation was filed as Manitoba Regulation 39/38.

It is deemed advisable to make the regulation set out in the schedule hereto, amending Manitoba Regulation 39/38.

1234 The regulation set out in the Schedule hereto be made.

Place and Natural Resources.

Place and Natural Resources.

SCHEDULE

MANITOBA REGULATION /66

being

A Regulation under The Mines Act

to Further Amend Manitoba Regulation 29/50

1. Section 192A of Manitoba Regulation 29/50 (hereinafter called "the regulation"), as passed by Manitoba Regulation 42/64, is amended by adding the words "or phosphates" after the word "shale" in the second line thereof.
2. Subsection (4) of Section 192 O of the regulation is amended by adding the words "or phosphates" after the word "shale" in the first line thereof.
3. Section 192R of the regulation is amended by adding the words "or phosphates" after the word "shale" in the first line thereof.

EXPERIMENTAL MEMORANDUM



DATE November 15, 1965

J. F. Davies

TO Mr. J. S. Richards

Chief Geologist

Director of Mines

DEPARTMENT OF MINES  
NATURAL RESOURCES

Oil Shale Exploration

NOV 15 1965

DIRECTOR OF MINES

1. Sun Oil Company
  - have taken scattered surface samples for analyses
  - drilled 8 holes in Manitoba, obtained core analyses for 7
  - one hole gave poor recovery and not analysed
  - depths ranged between 101 and 233 feet
  
2. Atlantic Refining Company
  - drilled 4 core holes. Ran formation density logs and induction logs on 3 of these holes. One hole not logged. No analyses yet received on any of the holes
  
3. Aquitaine Limited
  - have done surface sampling. *and geophysical studies* Core hole programme planned
  
4. Miscellaneous
  - Both Shell Development Company and Pan American Petroleum Corporation have obtained shale core *to the file* from the Mines Branch collection and have had analyses made. *in*

*J. F. Davies*  
J. F. Davies  
Chief Geologist

JFD/lk

p. c. on: Oil Shale - General.

R3C OP8

August 1, 1972.

Mr. Grant G. Pitcher,  
Pitcher Resource Management Ltd.,  
1819-Three Calgary Place,  
Calgary 1, Alberta.  
T2P 0W1

Dear Mr. Pitcher:

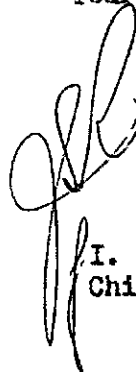
Re: Regulations pertaining to  
- Oil Shales -

In reply to your letter of July 7, 1972 we are pleased to advise that most of the material requested has been forwarded.

With regards to your request for a copy of regulations pertaining to oil shales, we refer you to Part X of the attached Regulations under The Mines Act - Starting at Page 82.

If you wish further information please let us know.

Yours sincerely,



I. Haugh  
Chief Geologist

cc: B. Barnatyne

JSP/gh





Province of Manitoba  
**Department of Mines, Resources and Environmental Management**  
Mines Branch

Geology Division  
901 401 York Avenue  
Winnipeg Manitoba  
R3C 0P8

July 4, 1972.

Mr Grant G Pitcher  
Pitcher Resource Management Ltd.  
1819 - Three Calgary Place  
Calgary 1, Alberta

Dear Mr Pitcher

Re Oil shale in Manitoba

As requested in your letter of June 22nd, we are enclosing copies of the results of investigations into the oil shale reserves of Manitoba made in the period from 1964 to 1967. Also, enclosed is a 1921 report by S C Ellis, Department of Mines, Ottawa

More detailed information, particularly on the Aquitaine Reservation No 9, is available if you require it. The information is noted on the attached list of assessment files.

At present, there are not any reservations for oil shale in the Province.

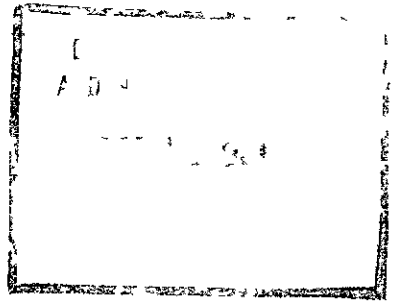
Enclosed is an invoice to cover reproduction costs.

Yours very truly,

Ian Haugh  
Chief Geologist

BB/hf  
Encls.

DEPT of MINES RESOURCES and  
ENVIRONMENTAL MANAGEMENT  
  
JUL 5 1972  
  
ASSISTANT DEPUTY  
MINISTER'S OFFICE



**IF YOU HAD NEVER SEEN A STRIP MINE**—Strip mine near Paradise, Muhlenberg County, Kentucky. Here game in green hills once abounded and the Green River teemed with fish, last year Muhlenberg County produced more coal than any other county in America.

# Paradise Is Stripped

By HENRY M. CAUDILL

**D**ESCENDANTS of the people who settled in the shallow valley of the Green River founded a small hamlet called Paradise, Ky. It was well named for the countryside was green and pleasant and the stream teemed with fish. Game abounded and a man could live an untroubled life, the tedium broken by an occasional visit to the county seat to listen to rials and swap yarns with friends from other parts of Muhlenberg County.

But times have changed. There is still a dot called Paradise on the map of Kentucky, but last year Muhlenberg produced 176 million tons of coal—more than any other county in America—and the production record was achieved at a staggering cost. Paradise is isolated and shrunken hideous in an appalling waste. Thousands of acres of forest are piled high with stumps, and the once fertile soil

with coal, sometimes brown with sulphur. The streams that wind through this dead landscape are devoid of life.

Here in western Kentucky, part of America's Eastern Interior coal field, the mineral lies near the surface and the region has fallen prey to strip mining on an immense scale. Strip mining is as easy as it is ruthless. It simply tears the earth apart vertically by slitting it in order to rip out the minerals. Conventional tunnel and pillar mining leaves the surface relatively undisturbed, but strip mining totally disrupts the land and its ecology.

In a typical Appalachia operation the development may proceed in two or more seams of coal at different levels in a mountain. The uppermost seam may be laid bare by the violent expedient of blasting away the entire overlying crust—a process known to the industry as casing the overburden. Lower down the seam is exposed or faced by bulldozers and dynamiting the timber and soil away from the coal. The uncottoned trees, loose dirt and shattered stone are piled down the slope. The coal is located by light explosive charges, located by a power shovel and a bulldozer, and the surface is being

to the nearest railroad loading docks.

Where the terrain is level or gently rolling the bulldozers and power shovels scrape away the dirt to expose the rock layer roofing the coal. The stone is then shattered with dynamite and lifted by immense shovels or draglines onto the spoil heap accumulations that sometimes rise almost sheer to a height of 200 feet. Several acres of the fuel may be laid in this manner before the shovels begin loading it onto the trucks.

One gigantic shovel owned by the Peabody Coal Company is as tall as a 17-story building and has become a major tourist attraction. Thousands of people drive out of their way to watch it devastate the American land.

**A** TRAVELER comes in along the new Kentucky Turnpike from The Bluegrass where the lawns and fields are manicured and the miles of wooden fences gleam with fresh white paint. There the influence of the early German immigrants lives on and in the counties around Lexington it is easy to conclude that the nation's heritage in a land is being safely guarded.

The turnpike carries the traveler through a line of lovely low hills into the west. (Continued on the following page)



crust from Pennsylvania to Alabama reveals the awesome scope of the depressions. For hundreds of miles one passes over lands crumpled into garkening dca n

In Pennsylvania alone 250,000 acres have been left as bleak and barren as the Sahara. As the hills steepen to the south and our strip mining begins in West Virginia and in eastern Kentucky, whole valleys have been wrecked. Centric cuts are made at the face of the coal seam, the high hills some times rising 90 feet straight up. The broken timber shattered rock and dirt are shoveled over the steep slopes to be carried by the rains into stream beds and onto farm lands.

In Ohio 202,000 acres in a half-dozen counties have been carried by the machines of the Seneca and the Lausene a search for a kind of business repeatedly denounced the strikers who are turning so much of his state into concrete and the devastation that in some areas once-valuable farmlands can now be bought for as little as 25 cents per acre.

In Wise County, Virginia, the coal lies near the hills, and many mountains have been deepened and turned into flat-topped mesas. In eastern Tennessee where the seams are thin and the mountains are a process of the damage subsides some that notwithstanding the fact that TVA was established to save the scarred state by a more rational use.

In the Eastern Interior coal fields the deepening runs has spread across western Kentucky and into Indiana and Illinois. So far a thousand acres of land have been leveled. In 1955 alone 105,000 were embracing some of the world's best coal lands have been leveled aside down.

and the ravages of strip mining are spreading to other coal fields far and wide. In North Dakota the Triax-Trax Coal Company is strip mining while the owners of lignite coal annually for the coal that do or plan of the South Electric Power Company to use an age-old device of the old-fashioned hammer mill. The coal operator is merely a state and official in the growing demand for electricity on the West Coast. The spread of electric power is large transmission lines of the product from generator to consumer. The vast light fields in the

Dakotas are likely to be wrecked on a grand scale in the next two or three decades.

In addition there is talk of cooking Colorado shales for their petroleum. If this occurs the shales will be covered by strip mining and the beautiful hills of Colorado will face the extinction that no thousands so much of the Appalachian range.

WHAT kind of corporations commit this murder of the landscape? One might suppose them to be obnoxious entities whose managers have not yet learned that in the 20th century it is good business to preserve land which cannot be replaced.

Not so many of the great strikers are so careless of well-known and old corporations—Bethlehem Steel, Republic Steel, Inland Steel, Interlake Steel, or Youngstown Steel and Tube and United States Steel. Their over-enthusiasm for their over-enthusiasm for the perpetuation of the American way of life in the Appalachian valleys they ruthlessly till the land on which future generations of Americans will depend. The most brutal example of corporate irresponsibility lies on the Poor Fork of the Cumberland River in Harlan County, Kentucky, where the United States Coal and Coke Company has scarred the Big Black Mountain for more than 20 miles, reducing much of this noble natural feature to a rubble heap.

The coal companies' profits are fantastic. Pittsburgh-Conglomerate Coal Corporation earned \$49,200,000 in 1955 and \$44,700,000 in 1956. The profits of Glenbrook Coal rose from \$1,000,000 a decade ago to \$6,000,000 a decade ago. Peabody Coal earned a profit increase in the same decade from \$9,430,000 to \$30,700,000. Ayrshire Colerex increased its net income from \$2,520,000 to \$5,790,000. The profits of Pittston Coal Company zoomed from \$2,150,000 to \$13,720,000 in the same decade.

The land companies that own the mineral wealth and lease it to strip miners show the most prodigious financial success in American industry. In 1964 the Virginia Coal and Iron Corporation earned a net profit of 16 per cent of its income and paid out 45 per cent of its gross income as dividends. This record was equaled by another huge and

company the Kentucky River Coal Corporation. By contrast in the same year General Motors cleared a dime out of each dollar received and paid out a nickel in dividends.

AND what of the people whose communities are shredded for the sake of coal? Obviously ruined lands must be abandoned and the strip mined communities all have shown sharp population declines. A million people have moved out of Appalachia in the past 10 years and the Eastern Interior fields has fared little better. As suburban mining declined thousands of families passed on to the public assistance rolls. Today welfare rotting poisons most of the money spent by families in the nation's coal fields.

If April 1964 exploitation has reduced a once-proud and even older people to the most massive and trampled part of the American population. Passivity has reached its ultimate depths in eastern Kentucky where whole communities have been impoverished and debased with scarcely a protest. There coal companies often own the minerals underlying the lands of farmers and the state's highest court has ruled that the companies have the right to destroy the land in order to get out the minerals.

With this license to wreck many operators have proceeded with complete abandon. They have rolled rocks through some homes and have pushed others off their foundations. Many have been demolished by avalanches from the spoil banks. In Knott County a one armed coal miner came home from a retraining program conducted as a part of the war on poverty to find his house and all its contents buried beneath a mammoth landslide.

When a group of mountaineers called themselves The Appalachian Group to Save the Land and People visited Gov. Edward T. Breathitt of Kentucky last June an 80-year-old woman told him that she had stood on the front porch of her little home and watched the bulldozers invade her little cemetery. She said, "I thought my heart would break when the coffins of my children came out of the ground and fell over the hill. This situation prompted one mountaineer to comment that the coal industry digs up the dead and buries the living."

But even in the erucy Mountains suffering and patience have been in the Clear Creek community women copied the tactics of civil rights demonstrators and stopped the strikers by lying down in front of the bulldozers. They were promptly hauled off to jail but the machures are still stilled by recalcitrant mountaineers determined to save their lands from ruin—and themselves from total impoverishment.

AMERICA is not alone in its craving for coal or in facing the problems arising out of strip mining. In Europe postwar reconstruction has seen a Socialist Government in Great Britain and a Communist Government in Czechoslovakia authorize the demolition of whole communities at the coal face. In England strip miners have gone to a depth of 700 feet—500 feet deeper than in America yet attempted in America.

But European national coal boards have demonstrated that complete reclamation of strip mined sites is possible. In England for example the top soil is carefully scraped off and saved in separate heaps. Next the subsoil is pushed aside and similarly isolated. So is the rock above the coal. At the end of the operation the rock goes back into the pit first then the subsoil is pushed in finally the topsoil is restored to its original site. The restored land is compacted as it is replaced. After it is compacted it is fertilized and treated with limestone. If there are any trees or plants left they are treated with a restorative treatment. The cost of the land is returned to the culture the soil planted with timber. The cost is about \$1 a ton of coal recovered. These are the events demonstrated that can be a reclamation of the mountaineer is within easy reach of American industry.

In 1875 California outlawed hydraulic gold mining or the ground that it silted streams and caused the flooding of valuable farmlands. This type of mining was comparatively harmless when compared to coal strip mining out of the states will face up so squarely to our modern processes. In the coal states legions are composed of the men of little men who, despite their dishonors and criticisms

Go  
Oil Week  
7/10

Oilweek - January 31/66

DENVER: Commercial production of oil from Colorado's vast shale deposits may be as little as five years away according to T.W. Nelson, senior vice-president of Socony Mobil, which is project manager for U.S. Interior Department's pilot plant at Anvil Points, Colorado. Optimum size plant would mine and retort about 80,000 tons of shale a day to produce 50,000 b/d of raw shale oil, he said, which would be coked to produce 1,200 tons of premium quality coke and 43,000 b/d of coker distillate that could be piped to refinery. Thirty gallons of shale oil would produce 14.3 gal. of motor fuel, 10 gal. of diesel fuel, 0.6 gal. of heavy fuel oil, 0.6 gal. of LPG's and 40 lbs of electrode coke.

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## NOTES RE OIL SHALE EXPLORATION

In June, 1964, regulations were passed stipulating the conditions under which areas would be reserved for oil shale exploration. Subsequently, Sun Oil Company, Aquitaine Company of Canada Limited, and The Atlantic Refining Company, acquired reservations comprising approximately 1,586,000, 119,000 and 434,000 acres respectively, in accordance with these regulations. In August, 1965, the regulations were amended to authorize the approval of research work as an expenditure made for the purposes for which the reservation was granted.

Since the acquisition of its reservations, Sun Oil Company has carried out a program of surface sampling and has drilled 8 holes to depths ranging between 101 and 233 feet. Analyses were obtained from 7 cores. The company has also carried out research relative to recovery of oil from shale and the treatment of shale oil in its research laboratory in the United States. Research expenses in the amount of \$28,156.00, attributable to the company's Manitoba acreage, has been reported. My department has accepted the work carried out to date as satisfactory for the first year of the term of the company's reservations and has extended 2 permits to July 30, 1966, and one permit to October 23, 1965.

The Atlantic Refining Company carried out surface work and drilled 4 holes between the Opouke Woods Forest reserve and the International boundary. The company surrendered the three reservations, comprising 434,000 acres, as of December 3, 1965.

Aquitaine Company of Canada Limited has carried out geological studies and surface sampling on the area of 119,000 acres, comprising its reservation, which lies south and east of the Mining Mountain National Park. Samples are being analysed at the company's research laboratories in France. The company's reservation has been extended for one year to September 23, 1966.

A few remarks about an interim report made by the United States Secretary of the Interior, by an Oil Shale Advisory Board appointed "to analyse the problems associated with development of oil shale deposits on Federally-owned lands", would, I believe, be illuminating. This report emphasizes the immense potential value of the oil shales in United States which has been established by a great deal of work over a period of many years. It is stated that shale yielding 25 gallons or more per ton contains about 500 billion barrels of oil equivalent. In contrast, as yet, we do not know if Manitoba possesses any oil shale of possible economic significance.

# COPY

## 2--Notes re Oil Shale Exploration.

Despite this vast potential which has been established, the Oil Shale Advisory Board has, to date, been unable to reach any agreement as to the terms and conditions under which U.S. Federal lands should be leased, nor to make specific recommendations relative to conservation problems which may arise from an oil shale operation. The main reason for this inability to define a policy is that the recovery processes to be employed have not, as yet, been perfected.

I draw attention to the U.S. situation to emphasize that while exploration rights for oil shales have been granted, by my department, no commitment has been made in respect to the terms and conditions under which oil shale leases will be granted. These terms and conditions will not be established until such time as more is known about, (a) the quality and quantity of oil shale in Manitoba, and (b) the processes to be used to convert such deposits into a commercial operation have been established.

November 16, 1965.

Honourable Sterling R. Lyon, Q.C.,  
Minister of Mines and Natural Resources.

Dr. B. H. Krastjansen, Secretary,  
Manitoba Development Authority.

**Oil Shale Exploration -**

**Policy re Disposition of Crown Rights  
& Control of Production Operations.**

**SUMMARY:**

On June 30, 1964 the United States Secretary of the Interior appointed an Oil Shale Advisory Board, "to analyze the problems associated with development of oil shale deposits on Federally owned lands". This Board held four meetings and on February 1, 1965 submitted an Interim Report to the Secretary of the Interior, which suggested certain objectives for developing a Federal oil shale policy, and three alternative courses to achieve these objectives. The purpose of this paper is to consider what application, if any, the suggestions made by this Board may have to exploration and development of oil shale in Manitoba.

**BACKGROUND:**

The three courses suggested by the U.S. Oil Shale Advisory Board, to stimulate oil shale development, may be summarized as follows:

1. That the Government should "actively support research directly or through private contracts.". It is also implied that the leasing of Federal lands should be deferred until this program has achieved results.
2. That the Government make available for leasing, areas of land subject to "firm performance requirements".
3. The third suggestion is a compromise between 1. and 2. Small tracts would be offered for research and development, and commercial leases would follow if such investigation showed "that commercial production is viable in the light of economic and conservation requirements".

It will be noted that the Board members reached little agreement among themselves. As one member of the Board states "We agreed then to disagree on clear-cut alternative means through which oil shale development might be stimulated."

One area in which agreement was reached was the need for more research, whether this research be carried out by Government or private enterprise. Because of the need for better knowledge it is suggested that government should "proceed cautiously toward development and maintain flexibility".



Dr. S. H. Kristjanson, Secretary,  
Manitoba Development Authority.

This report also refers to conservation problems such as "protecting landscape, preventing pollution and conserving water". However, no means to these objectives are suggested because the recovery processes to be employed have not, as yet, been perfected.

In summary it may be said that the U.S. Board expressed three different points of view; (1) that the Government should carry out or support a major part of the necessary research and go slow in respect to the leasing of Federal lands; (2) that the development of oil shales should be carried out by private enterprise with little participation by Government except in the field of pollution control and the conservation of land and water; (3) a middle-of-the-road compromise between these two points of view. As mentioned before, the one major point of agreement was the need for more research either by Government or private enterprise.

This U.S. report also emphasizes the immense potential value of the oil shales in the United States. It is stated that shale yielding 25 gallons or more per ton contains about 600 billion barrels of oil, equivalent, and shale yielding 10 gallons or more per ton contains about 2,000 billion barrels of oil equivalent. In contrast, as yet, we do not know if Manitoba possesses any oil shale of possible economic significance.

Manitoba Regulation 42/64, passed in June, 1964 stipulated the conditions under which areas would be reserved for the exploration for oil shale. Subsequently, Sun Oil Company, Aquitaine Limited, and Atlantic Refining Company acquired reservations, comprising approximately 1,586,000, 119,000 and 434,000 acres respectively, in accordance with this Regulation.

Since the acquisition of its reservations, Sun Oil Company have carried out a program of surface sampling and has drilled 8 holes to depths ranging between 101 and 233 feet. Analyses were obtained from 7 cores. Atlantic Refining Company has drilled 4 core holes and ran geophysical logs on 3 of these holes. No analyses have, as yet, been received. The work performed by Aquitaine Limited, to date, has been limited to geological studies and surface sampling.

My department has accepted the progress reports submitted by Sun Oil Company to date, as satisfactory compliance with the regulations, and has extended the company's reservations for one year, subject to the retention of a deposit of \$64,500 that further work will be carried out during this period.

Dr. B. H. Kristjanson, Secretary,  
Manitoba Development Authority.

The reservations held by Aquitaine Limited have also been extended for a second year subject to the retention of a deposit in the amount of \$4,500.

The first year of the term of the reservations held by Atlantic Refining terminates December 4, 1965.

Following discussion which the officials of my department held with representatives of the three companies holding Crown oil shale reservations, Manitoba Regulation 42/64 was amended to authorize the Minister of Mines and Natural Resources to approve "the cost of experimental work in a laboratory, or pilot plant, or other testing or research work....., as an expenditure made for the purpose for which the reservation was granted". This amendment recognized the need for industry to carry out research into methods for extracting oil from the shale and processes for producing a commercial product.

The reservations granted to the three companies permit them to explore for oil shale on Crown lands and carry on research to determine if such deposits are economically viable. The reservations may be extended for a third year by the Minister of Mines and Natural Resources and for further periods by the Lieutenant-Governor-in-Council. Provided the companies fulfil their obligations within the reservation period, they have the right to a lease, or leases, comprising up to ten percent of the area of all the reservations without regard to the boundaries of the individual reservations. However, the regulations are silent in respect to the principal terms and conditions, under which such leases shall be issued; "Every such lease shall contain such conditions, stipulations and provisos as the minister may prescribe.....".

RECOMMENDATION:

In view of the fact that it is, as yet, not known whether deposits of oil shale possessing an economic potential occur in Manitoba, and that definite processes have not been established for the extraction and processing of shale oil, it is recommended that (1) the companies holding oil shale reservations be advised that regulations stipulating the terms and conditions under which oil shale leases will be issued will not be considered until such time as more is known about: (a) the quality and quantity of oil shale in Manitoba and (b) the processes to be used to convert such deposits into a commercial operation have been established; and (2) should the companies in a year or two, as in their

Dr. B. H. Kristjanson, Secretary,  
Manitoba Development Authority.

right, apply for leases and either 1. (a) or 1. (b) has still not been established such leases will contain a provision that substantial capital expenditures will be made at specified intervals of time, or the leases will be cancelled.

In the interim, the Department of Mines and Natural Resources proposes to maintain close surveillance on the development of the United States policy in respect to the leasing of oil shale rights and technological research applicable to this resource.

JSR/or

Sterling R. Lyon,  
Minister of Mines and Natural  
Resources.

Orig. on: Acts and Regulations - Oil Shale.

p. c. on: ~~MANITOBA DEVELOPMENT AUTHORITY~~ - Oil Shale - General.

INTER - DEPARTMENTAL MEMORANDUM

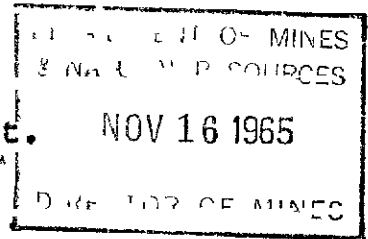
FROM O. S. Eagleton.



PROVINCE  
OF  
MANITOBA

DATE

TO M. J. Gobert.



SUBJECT

OIL SHALE:

November 15/65.

As discussed, it is my understanding that you have spoken to the Minister on this matter and that he expressed no immediate concern about the preparation of the M.D.A. Paper and any necessary changes to Acts and Regulations, but that you are working on these items and will prepare them for presentation in due course.

Attached is the copy of the Minister's memo, which you did not previously receive, that outlines this request.

Orig. on: Acts and Regulations - Oil Shale.

p. c. on: Oil Shale - General.

  
O. S. Eagleton.

Enc.

cc Mr. Richards ✓

No

DEPARTMENT OF MINES, RESOURCES



AND ENVIRONMENTAL MANAGEMENT

PROVINCE OF MANITOBA

SUBJECT

*Reservation*

*Oil Shale*

*Corresponds General*

**MINERAL RESOURCES  
DIVISION**

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO  
LEASE LEDGER  
Dec 11 1917 - 1918

Dear A. C. Campbell, Calgary  
etc. mineral lease of  
D. H. McLean & Co., Ltd. 16/14

DATE OF ENTRY	PERIOD OF LEASE		DESCRIPTION	RENTAL		RENTAL	FILE NUMBER
	FROM	TO		DEBIT	CREDIT		
July 30 1917			...				62257
July 30 1917			...				
July 30 1917			...				
July 30 1917			...				
July 30 1917			...				
July 30 1917			...				

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO  
*Oil Shale No 2*  
LEASE LEDGER

*Acme Oil Company, Calgary*

*Dec 1939 A 150*

DATE OF ENTRY 19	PERIOD OF LEASE		DESCRIPTION	RENTAL	RENTAL	FILE NUMBER	CREDIT	DEBIT	JOURNAL OR C B FOLIO	BALANCE
	FROM	TO								
July 31 1964			<i>Nov 1939</i>			<i>6 2522</i>				
			<i>30-31 33</i>	<i>July</i>						
			<i>31-31 33</i>	<i>33</i>						
			<i>31-31</i>	<i>33</i>	<i>1941, 1939 06 0011</i>					
July 31 1964			<i>July 31</i>							
Dec 31 1964			<i>July 31</i>							
July 31 1964			<i>July 31</i>							

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO.

*C. S. Shale No. 3*  
LEASE LEDGER

14

*Standard Oil Company (Indiana)*

*DIC 198 1100*

DATE ISSUED	PERIOD OF LEASE	DESCRIPTION	RENTAL	DEBIT	CREDIT	BALANCE	FILE NUMBER
<i>July 30 1964</i>		<i>Drum 110</i>					<i>62909</i>
		<i>34. 20' 36</i>					
		<i>38 10 36</i>					
		<i>31 00' 36</i>	<i>192,790.70</i>				
		<i>36</i>					
<i>July 31 1964</i>		<i>Credit 7.50</i>		<i>7.50</i>		<i>7.50</i>	
<i>Dec 14 64</i>		<i>Report returned Chicago</i>					
		<i>Report by Salt Lake made</i>					
		<i>made by Bennett and returned to</i>					
		<i>REPORT TO EXP. DIV. AND RECEIVED</i>					
		<i>Bonds returned by Treasury - Credit B. Bennett 21 Nov 1968</i>					

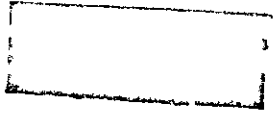


DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO  
*Oil Field No 44*  
LEASE LEDGER

*Shen' Oil Company Calgary*

R



DATE ISSUED	PERIOD OF LEASE	DESCRIPTION	RENTAL	FILE NUMBER	RENTAL		CREDIT	BALANCE
					FROM	TO		
DATE OF ENTRY	DETAILS		JOURNAL OR C B FOLIO	DEBIT	CREDIT			
July 20 1964		<i>Summary</i>		<i>62960</i>				
		<i>52-133</i>	<i>199 MAY 10 1964</i>					
		<i>53-52-35-</i>						
		<i>53-52-30-</i>						
		<i>53-52-</i>						
		<i>72</i>						
		<i>April 7 1965</i>						
		<i>Chaque 7275</i>						
		<i>Bank returned by Treasury - April, Be memo 21 Nov 1966</i>						

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO  
*Dist. No. 2-*  
LEASE LEDGER

*Acme Oil Company - Calgary*

P

DATE ISSUED	PERIOD OF LEASE		DESCRIPTION	RENTAL	FILE NUMBER	
	FROM	TO				
<i>July 26</i>			<i>26-27, 31, 32</i>		<i>67961</i>	
<i>1962</i>			<i>31, 8, 20</i>			
			<i>27, 1, 2, 3, 4</i>			
			<i>23-31, 31, 34</i>	<i>197, 307 15-</i>		
			<i>32, 31, 27, 31</i>			
DATE OF ENTRY	RENTAL		JOURNAL OR C B FOLIO	DEBIT	CREDIT	BALANCE
19	FROM	TO				
			<i>6000</i>	<i>7500 -</i>		
			<i>6200</i>			<i>7500 -</i>
			<i>6300</i>			
			<i>6400</i>			
			<i>6500</i>			
			<i>6600</i>			
			<i>6700</i>			
			<i>6800</i>			
			<i>6900</i>			
			<i>7000</i>			
			<i>7100</i>			
			<i>7200</i>			
			<i>7300</i>			
			<i>7400</i>			
			<i>7500</i>			
			<i>7600</i>			
			<i>7700</i>			
			<i>7800</i>			
			<i>7900</i>			
			<i>8000</i>			
			<i>8100</i>			
			<i>8200</i>			
			<i>8300</i>			
			<i>8400</i>			
			<i>8500</i>			
			<i>8600</i>			
			<i>8700</i>			
			<i>8800</i>			
			<i>8900</i>			
			<i>9000</i>			
			<i>9100</i>			
			<i>9200</i>			
			<i>9300</i>			
			<i>9400</i>			
			<i>9500</i>			
			<i>9600</i>			
			<i>9700</i>			
			<i>9800</i>			
			<i>9900</i>			
			<i>10000</i>			

*Report by Dept. of Geology  
Records by Dept. of Geology  
Returned by Acme Oil Company*

DEPARTMENT OF MINES AND NATURAL RESOURCES  
 ACCOUNTS BRANCH

LEASE NO

*62962*

R

*Acme Oil Company Co (guar)*

DATE ISSUED	PERIOD OF LEASE	DESCRIPTION	RENTAL	FILE NUMBER	RENTAL		DEBIT	CREDIT	BALANCE
					FROM	TO			
DATE OF ENTRY		DETAILS			JOURNAL OR C.B. FOLIO				
<i>July 1966</i>		<i>Acme Oil</i>		<i>62962</i>					
		<i>41 x 42</i>							
		<i>42 x 44</i>							
		<i>44 x 46</i>							
		<i>46 x 48</i>							
		<i>48 x 50</i>	<i>196 719 4600</i>						

*Report  
 Department of  
 Lands  
 prepared by Dept of Lands  
 B. memo  
 Bonds returned by Treasury - Dec 1966*

*July 20 66  
 41 x 42  
 42 x 44  
 44 x 46  
 46 x 48  
 48 x 50*

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO. -

*Ed. Shale No. 7*  
LEASE LEDGER

*Am. Oil Company Calgary*

R



DATE OF ENTRY	PERIOD OF LEASE		DESCRIPTION	RENTAL		DEBIT	CREDIT	BALANCE
	DATE ISSUED	FROM		TO	RENTAL			
<i>July 26 1962</i>			<i>Oil traps Range 57</i>					
			<i>42, 43, 44, 45</i>					
			<i>42, 43, 44, 45</i>					
			<i>42, 43, 44, 45</i>					
								<i>113,671.61</i>
<i>July 26 62</i>			<i>Capital fee</i>			<i>226</i>	<i>226</i>	
<i>Aug 14 62</i>			<i>Report returned cheque T 2815</i>					<i>7500</i>
<i>Aug 31 62</i>			<i>Returned by bank of the name bank</i>					
			<i>Returned to a bank via July 31 1966</i>					
			<i>Returned by Treasury</i>					

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

*Summit Company - Calgary*

LEASE NO. *6256H*  
LEASE LEDGER

DATE ISSUED	PERIOD OF LEASE	DESCRIPTION	RENTAL	FILE NUMBER	RENTAL		DEBIT	CREDIT	BALANCE
					FROM	TO			
<i>July 30, 1964</i>	<i>11-11</i>	<i>Summit</i>		<i>6256H</i>					
		<i>11</i>							
		<i>11</i>							
		<i>30-11-64</i>	<i>115,200.00</i>						
DATE OF ENTRY	RENTAL					JOURNAL OR C B FOLIO			
<i>July 31 64</i>	<i>11-11</i>	<i>11-11</i>				<i>6256</i>			
<i>July 30 65</i>						<i>6256</i>	<i>350</i>	<i>350</i>	<i>2500</i>

*Details:*  
*Capital 7500*  
*Chg. 7515*  
*Exp. by Sec. of Govt. 1000*  
*Balance 1000*  
*11-5-11-64*  
*Bonds returned by Treasury*  
*memo 21 Nov 1968*

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO. *Old Mill & Co. 10*

*David Campbell - Calgary*

LEASE LEDGER

DATE ISSUED	PERIOD OF LEASE	DESCRIPTION	RENTAL	FILE NUMBER	RENTAL		DEBIT	CREDIT	BALANCE
					FROM	TO			
<i>Oct 13/65</i>		<i>See notes page 192</i>							
		<i>63</i>	<i>90</i>	<i>63-20</i>					
		<i>91</i>	<i>91</i>						
		<i>92</i>	<i>92</i>						
		<i>93</i>	<i>93</i>						
		<i>94</i>	<i>94</i>						
		<i>95</i>	<i>95</i>						
			<i>100,000 2000</i>						
DATE OF ENTRY		DETAILS	JOURNAL OR C/B FOLIO		DEBIT		CREDIT		BALANCE
<i>See</i>		<i>Capital 200</i>	<i>200</i>						
<i>CR 11/65</i>		<i>2000</i>	<i>2000</i>						
<i>Oct 13 65</i>		<i>Renewed &amp; extended to 30th 1966</i>							
		<i>Reservation improved and cancelled</i>							
		<i>Deposit returned Cheques 74 558 on 30 Nov 1966</i>							

September 30, 1966.

*10/14/66  
Old Mof  
Shale*

J. S. Richards,  
Director of Mines.

Mr. W. Winston Mair,  
Deputy Minister.

Sun Oil Company -

Oil Shale Reservations.

Sun Oil was the holder of 9 oil shale reservations (exploration permits) which required the expenditure of \$61,500 on exploration and/or experimental and research work.

The company posted Canada Bonds with a face value of \$60,000 and \$4,500 in cash as a guarantee that these expenditures would be made. The company has submitted Statutory Declarations and other evidence of expenditures on:

- (a) exploration \$ 18,088
- (b) analyses and research \$ 96,247.

These figures include an 8% overhead charge.

The regulations governing the administration of oil shale reservations require the approval of the Minister in respect of experimental and research costs. The information submitted substantiates that at least \$53,781 has been spent on research and experimental work related to the Manitoba reservation and it is recommended that this amount be approved.

If this recommendation is approved, it is requested that the Minister, or you, sign the duplicate of this memo and return it to this office. This will provide us with the authorization necessary to return the company deposits.

*[Signature]*  
JSR/or

*[Signature]*  
J. S. Richards.

c c to Mr M J Gobert,  
Assistant Deputy Minister

DEPARTMENT OF MINES  
AND NATURAL RESOURCES

OCT 3 - 1966

ASSISTANT DEPUTY MINISTER  
OFFICE

# COPY

*Oil shale*

August 3, 1966.

Mr. R. D. Jones,  
Sun Oil Company,  
Production Department,  
Petro-Chemical Building,  
805 - 8th Avenue, W.,  
Calgary, Alta.

Dear Mr. Jones:

This will acknowledge receipt of your letter of July 27th, advising that Sun Oil Company will not request renewal of Oil Shale Permits 1 to 8, inclusive, which terminated July 30, 1966.

A more formal surrender is not required.

It is noted that the information, relative to expenditures, requested earlier, will be forwarded in the very near future.

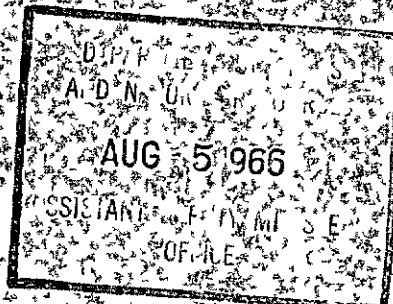
Yours very truly,

*J. S. Richards*  
J. S. Richards,  
Director of Mines.

JSR/or

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

Mr. T. Morgan,  
Chief Mining Recorder.





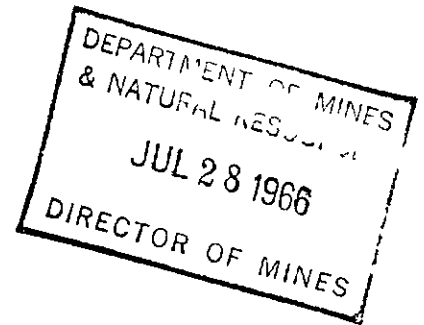


GEORGE E. DUNLAP  
Manager Canadian Production Division  
LLOYD E. MILLER  
Assistant Division Manager

PRODUCTION DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 805 8th Avenue W Drawer 38 Calgary Alberta Canada

July 27, 1966

Province of Manitoba,  
Department of Mines and Natural Resources,  
Mines Branch,  
901 Norquay Building,  
401 York Avenue,  
WINNIPEG 1, Manitoba.



Attention Mr J S Richards

Dear Sirs

Re Manitoba Oil Shale Permits 1-8 incl.,  
dated July 30, 1964

Our records indicate that the above-noted Permits will complete their present term on July 30, 1966. We have therefore reviewed our Oil Shale acreage commitments in detail and have decided not to request the renewal of these Permits. We do not propose to convert any of the Permit areas to lease. We trust you will advise in the event a more formal surrender form is required.

Information requested in your letter dated June 30, 1966 is being obtained and will be forwarded to you in the very near future.

Yours very truly,

SUN OIL COMPANY

R. D. Jones

RDJ sm

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

*oil shale*

# COPY

June 30, 1966.

Mr. R. D. Jones,  
Production Department,  
Sun Oil Company,  
Petro-Chemical Building,  
805 - 8 Av., W.,  
Drawer 38,  
Calgary,  
Alberta.

Dear Mr. Jones:

This will acknowledge your letter of June 22nd, and the attached "Report of Research on Saskatchewan and Manitoba Oil Shales", together with a Statement of Expenditures verified by Geib, Valestuk Loeppky & Co.

This statement supplies no breakdown of the items which comprise the total of \$60,951.90. It would be appreciated if you would supply the individual expenditures incurred in respect to the following:

- a) analysis of oil obtained by retorting shales
- b) analysis of gas obtained by retorting shales
- c) analysis of spent shale for fixed carbon heating value
- d) development of assaying techniques
- e) development of batch retorts for producing large samples of oil
- f) development of retorting process for production of synthetic fuels from oil shale
- g) purchase of equipment.

Yours very truly,

*J. S. Richards*  
J. S. Richards,  
Director of Mines.

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

DEPARTMENT  
OF MINES AND TECHNICAL SURVEYING

JUL - 5 1966

ASSISTANT DEPUTY MINISTER  
OFFICE

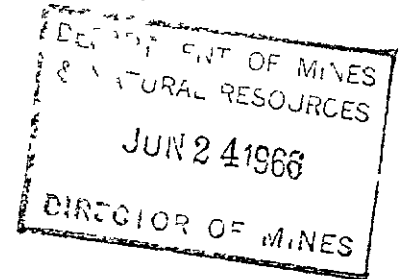
JSR:db



GEORGE E. DUNLAP  
 Manager Canadian Production Division  
 LLOYD E. MILLER  
 Assistant Division Manager

PRODUCTION DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 800 8th Avenue W Drawer 38 Calgary Alberta Canada

June 22, 1966



Department of Mines and Natural Resources,  
 Mines Branch,  
 904 Norquay Building,  
 401 York Avenue,  
 WINNIPEG 1, Manitoba.

Attention Mr. J. S. Richards

Dear Sirs

Re Manitoba Oil Shale Permits 1-8 incl.  
 dated July 30, 1964 and  
 Manitoba Oil Shale Permit 10 dated  
October 23, 1964

Further to your letter dated March 9, 1966, we enclose an up-to-date report on our research activities relative to both Manitoba and Saskatchewan Oil Shales as prepared by our Research Laboratory at Richardson, Texas, U.S.A. This work was commenced last year and is still being actively pursued. Expenses relating to this and other work for the period up to June 1, 1965 have been previously forwarded by virtue of the statement included in our letter dated January 5, 1966.

We now enclose a Statement of Expenditure verified by the firm of Geib, Valestuk & Co, Chartered Accountants, in support of expenditures incurred by Sun Oil Company on the above-noted Reservations for the period June 1, 1965 to February 28, 1966. In preparing this statement we have followed the same procedure as that followed in the preparation of the previous statement in that the total amount of expenses allocated to our Manitoba holdings represents only that proportion (44.29%) of actual total expenditures that our Manitoba Oil Shale acreage bears to our total Canadian Oil Shale holdings.

Pursuant to Section 192(c), we have deposited Government of Canada 4½% Bond Nos T29C 50749/50 Inc. and D 00433/34 Inc. Bearer due September 1, 1983 in the amount of \$60,000.00.

In view of the expenditures incurred to date amounting to \$48,497.21 (period ending June 1, 1965), and \$65,838.05 (period June 1, 1965 to February 28, 1966), for a total expenditure of \$114,335.26, we respectfully request a

Att Mr. J S Richards

- 2 -

June 22, 1966

refund of our cash deposits pursuant to Section 192 I(2) of the Regulations. Since Section 192 I(3) requires that at least 30% of the cash deposit shall be retained until after the Reservation holder has submitted the record required to be submitted under Section 192 M, we suggest that the refund at this time should include Bonds equal in value to \$40,000.00.

We trust you will find our report of interest and our expenditure statement in good order. If so, we request that the Bonds to be refunded should be forwarded to

Royal Bank of Canada,  
740 - 8th Avenue S W ,  
Calgary, Alberta.

Yours very truly,

SUN OIL COMPANY



R D. Jones

RDJ sm  
Encls.

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

COPY

March 9, 1966.

Mr. R. D. Jones,  
Production Department,  
Sun Oil Company,  
Petro-Chemical Building,  
805 - 8 Avenue, West,  
Drawer 38,  
Calgary,  
Alberta.

Dear Mr. Jones:

Many thanks for your letter of February 14th, relative to Oil Shale Reservations Nos. 1 to 8 and 10. We also regret any misunderstanding that has arisen in regard to your work commitments in respect to these reservations.

I do not have any further information to offer except the comment that our understanding was based on a Memorandum to File, written shortly after the discussions referred to in our correspondence.

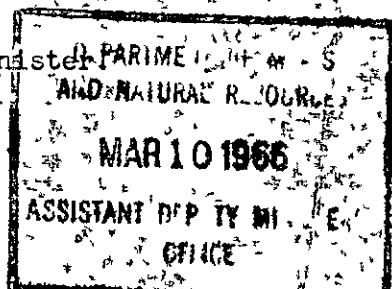
However, as you state, in view of the fact that your program is active, continuous, and systematic, the matter appears to be academic.

Yours very truly,

J. S. Richards,  
Director of Mines.

JSR:db

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



*O. J. ...*



FEB 13 1966  
D RE C U OF M I N E

GEORGE DUNAP  
Manager Canadian Production Division  
ROY E MILLER  
Assistant Division Manager

PRODUCTS DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 805 8th Avenue W Drawer 38 Calgary Alberta Canada

February 14, 1966

Department of Mines and Natural Resources  
Mines Branch  
901 Norcuay Building  
401 York Avenue  
Winnipeg 1, Manitoba

ATTENTION Mr. J.S. Richards

Dear Sir

Re Manitoba Oil Shale Reserves  
Nos. 1-8 inclusive and No. 10

We acknowledge your letter dated January 26th, the contents of which have been discussed at length with our Mr. E.E. Gilbert. In reply, we respectfully submit the following comments to the understandings expressed in your letter -

1. "The deposits would be retained until the end of the second year"

It is Mr. Gilbert's understanding that deposits would be retained until the end of the second year subject to the right to request their return upon providing satisfactory evidence that work was performed. This understanding was confirmed by the fact that we recently forwarded evidence of expenditures for your approval. However, regardless of the understanding reached, we are agreeable to leave the deposits on file with your department and postpone our request for reimbursement until the end of the second year.

2. "If Sun performed no work during the second year of the Reservations, the Crown would retain the entire work deposit."

We could not determine any basis for this understanding. We agree the deposits would be forfeited if no work was performed "by" the end of the second year. (Including both first and second years).

D I P  
A. D N U  
FEB 18 1966  
S I C A N

.....2

February 14, 1966

However, this point is probably academic in that Sun is currently spending during the second year very substantial amounts by way of research utilizing previous information acquired in the reservation areas. It has been our intention to submit these further expenditures for your approval at the end of the second year anniversary date.

We naturally regret any misunderstandings that may have arisen in this regard and we would appreciate any further information you have which would assist us in clarifying these various matters. Our concern in resolving these misunderstandings is perhaps magnified by our company's exploration program, which we feel has been active, continuous, and systematic and involved very substantial expenditures.

Yours very truly,

SUN OIL COMPANY



R.D. Jones

RDJ/cel

cc to Mr. E.E. Gilbert

p. c. to: Mr. M. J. Gobert,  
Assistant Deputy Minister. (2).

COPY

January 26, 1966.

Mr. R. D. Jones,  
 Production Department,  
 Sun Oil Company,  
 Petro-Chemical Building,  
 805 - 8 Av., W.,  
 Drawer 38,  
 Calgary,  
 Alberta.

Dear Mr. Jones:

This will acknowledge receipt of your letter of January 5, together with the Statement of Expenditures, verified by Geib, Valestuk & Co., Chartered Accountants.

It is noted that you intend to apply for a refund of cash deposits, in accordance with Section 192 I (2) of the Regulations. Our understanding of the discussion, which we held with Mr. E.E. Gilbert, was that the deposit would be retained until the end of the second year of the term of the reservations. Also that, in the event that during the second year of the permits Sun Oil did no work in respect to the permit areas, the Crown would retain the entire work deposit posted. In other words, that work done during the first year would not be credited for a refund of part of the deposit at the end of the second year.

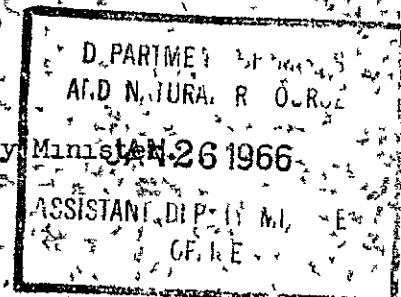
Yours very truly,

J. S. Richards,  
 Director of Mines.

JSH:db

c. c. to: Mr. Stuart Anderson,  
 Deputy Minister.

Mr. M. J. Gobert, Assistant Deputy Minister





INTERNAL - DEPARTMENTAL MEMORANDUM



DATE January 24, 1966.

FROM J. S. Richards,  
Director of Mines.

TO Mr. M. J. Gobert,  
Assistant Deputy Minister.

PROVINCE  
OF  
MANITOBA

SUBJECT Sun Oil Company -

Oil Shale Reservations.

Attached, hereto, copy of a letter from Mr. R. D. Jones, together with a copy of the "Statement of Expenditures Incurred", referred to therein.

The expenditures as such appear reasonable, including the method of allocating research expenses, namely, "that portion which our Manitoba ..... acreage bears to our total Canadian ..... holdings .....".

You will note, in the last paragraph, that it is the company's intention to apply for a refund under Section 192I (2). This suggestion, as you are aware, is not in accord with our understanding of the points of agreement reached in discussions with Mr. E. E. Gilbert.

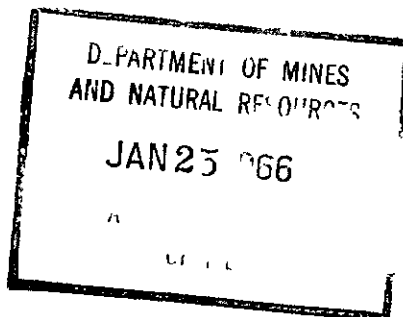
In my memo to file, dated August 25, 1965, (under 3.), I stated that Mr. Gilbert agreed that, if no work was done during the second year, "it would be equitable for the Crown to retain the entire work deposit posted by Sun Oil.". I believe you agree with this statement.

Kindly advise if I shall write to Sun Oil, advising them accordingly.

JSR:db

Encs.

Handwritten signature of J. S. Richards in cursive script.  
J. S. Richards.





GEORGE E. DUNLAP  
 Manager Canadian Production Division  
 LLOYD E. MILLER  
 Assistant Division Manager

PRODUCTION DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 805 8th Avenue W • Drawer 38 Calgary Alberta Canada

January 5, 1966.

Department of Mines and Natural Resources,  
 Mines Branch,  
 904 Norquay Building,  
 401 York Ave.,  
 Winnipeg 1, Manitoba.

DEPARTMENT OF  
 MINES & NATURAL RESOURCES  
 JUN 5 - 1966  
 DIRECTOR'S OFFICE

ATTENTION Mr. J.S. Richards.

Dear Sir

RE Manitoba Oil Shale Permits 1-8 Inclusive,  
 dated July 30, 1964.  
 Manitoba Oil Shale Permit #10, dated October  
 23, 1964.

In accordance with Section 192 I of the Oil Shale Reservation Regulations, we enclose a Statement of Expenditures verified by the firm, Geib, Valestuk & Co., Chartered Accountants, relating to expenses incurred by Sun Oil Company on the above noted Reservations for the period ending June 1, 1965. Detailed progress reports pursuant to Section 192 I (1) have been forwarded previously.

As a word of explanation, we wish to point out that total expenditures involved in research amounted to much more than reported in this Statement. The amount reported here is that portion which our Manitoba Oil Shale acreage bears to our total Canadian Oil Shale holdings and to which our research program was related. We trust you will find this method of allocating expenditures satisfactory.

In the event the enclosed expenditures, in the amount of \$48,497.21, meets with your approval it will be our intention to apply for a refund of cash deposits under Section 192 I (2).

Kindly advise if further information is required.

p. c. to: Mr. M. J. Gobert,  
 Assistant Deputy Minister;  
 with Statement of Expenditures Incurred.

Yours very truly,  
 SUN OIL COMPANY,

*[Signature]*  
 R. D. Jones.

RDJ/cbm,  
 Enclosures

DEPARTMENT OF  
 MINES & NATURAL RESOURCES  
 JAN 25 1966  
 ASSISTANT DEPUTY MINISTER  
 OFFICE

DECLARATION

TO - DEPARTMENT OF MINES AND NATURAL RESOURCES  
PROVINCE OF MANITOBA  
MINES BRANCH

IN THE MATTER OF Crown Reservation of Oil Shale Rights  
#1 to #8 inclusive and Reservation of Oil Shale Rights #10.

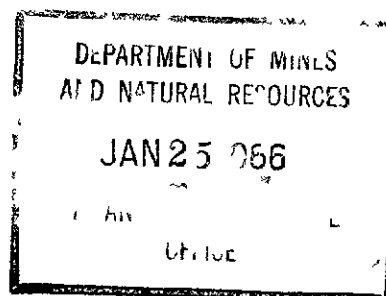
TO WIT, I, Otto Joseph Geib, of the City of Calgary, in the  
Province of Alberta, a partner in the firm of Geib, Valestuk & Co.,  
Chartered Accountants, do solemnly declare:

1. THAT Expenditures incurred by Sun Oil Company in connection  
with Reservations of Oil Shale Rights #1 to #8 inclusive and  
#10, for the period ending June 1, 1965 are as shown on  
Exhibit "A" attached hereto.
2. AND 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 25 day of November  
A.D. 1965.

Otto J. Geib  
Otto Joseph Geib

[Signature]  
A Notary Public in and for the  
Province of Alberta



Statement of Expenditures Incurred  
by Sun Oil Company  
On Manitoba Reservation of Oil Shale Rights  
Numbers 1 to 8 Inclusive and #10  
To June 1, 1965

Field Party Expenses (Party No. 12)	\$ 1,983.00
Incurred to gather oil shale samples along outcrop on Manitoba escarpment for analysis and to establish regional trends of oil shale occurrences.	
Second Core Hole Program	11,228.35
To establish regional trends of oil shale values along edge of outcrop after failure of field parties.	
Outside Consultant Report	3,462.00
To obtain preliminary evaluation of the economic potential of Manitoba oil shales and advise as to recommended exploration program.	
Sun Oil Company Research Expenses on Oil Shale Technology	28,156.48
Incurred by Sun Oil Company's research laboratory in the United States.	
Audit Fees	<u>75.00</u>
	\$ 44,904.83
Sun Oil Company administrative overhead of 8% added to above expenditures.	<u>3,592.38</u>
	\$ <u>48,497.21</u>

Note

~~This is the Exhibit "A" referred to in the declaration of Mr. Otto Joseph Geib dated \_\_\_\_\_ A.D. 1965~~

~~This is a true and correct copy of the  
Affidavit of Richard J. Geib  
of Edmonton taken~~

~~before me this 24 day of  
September A.D. 1965~~

~~[Signature]  
Notary Public  
Province of Alberta~~



DEPARTMENT OF MINES AND NATURAL RESOURCES  
MINES BRANCH

RECORDING DIVISION  
904 NORQUAY BUILDING  
401 YORK AVENUE WINNIPEG 1

November 13, 1964

Sun Oil Company  
c/o Montreal Trust Company  
Notre Dame at Albert Street  
Winnipeg, Manitoba

Gentlemen:

Attached Reservation of Oil Shale Rights No. 10 issued in the name of Sun Oil Company, Calgary dated October 23, 1964.

Also enclosed Official Receipt No. G 11106 in the amount of \$250.00 covering application fee and G 11107 in the amount of \$4,500.00 covering cash deposit on Oil Shale Reservation No. 10. These Receipts are issued in the name of Montreal Trust Company.

Yours truly,

A handwritten signature in dark ink, appearing to read 'T. Morgan', with a horizontal line extending to the right.

T. Morgan  
Chief Mining Recorder

TM/ar  
Encs.(3)

cc: Dr. J. F. Davies  
Chief Geologist

Reservation of Oil Shale Rights No. 1

In consideration of and subject to the provisos,  
conditions and restrictions, hereinafter contained, permission is  
hereby granted to

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba

its successors, and assigns, to carry on geological and geophysical  
examinations or both, including investigations relating to subsurface  
geology on the following lands, namely

<u>Township</u>	<u>Range</u>
21	15
21 and 22	16
23 and 24	17
23 and 24	18
23 and 24	19
24	20
24, 25, 26, 27 and 28	21
25, 27, 28, 29 and 30	22

all West of the Principal Meridian,  
containing #197,030 12 acres, more or less See attached list.

This reservation is subject in all respects to  
"The Lands Act" and Part Y of Manitoba Regulation 29/50 covering the  
disposal of boring claims, and any amendments thereto

Dated at Winnipeg this

Director of Mines

Page 2

Reservation 0.1

Township 21, Range 21, N.P.M.

S.W.<sup>1</sup>/<sub>4</sub> Sec. 7, N<sup>1</sup>/<sub>2</sub> and N.E.<sup>1</sup>/<sub>4</sub> Sec. 18, E<sup>1</sup>/<sub>2</sub> Sec. 26, E<sup>1</sup>/<sub>2</sub> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 31.  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 20, 22, 24, 28 to 30 incl., 32, 34 and 36.

Township 25, Range 21, N.P.M.

S<sup>1</sup>/<sub>2</sub> Sec. 6, N.W.<sup>1</sup>/<sub>4</sub> Sec. 18.  
All Sections 2, 4, 10 to 12 incl., 14, 16, 20, 22, 24, 28 to 30 incl., 32 and 34.

Township 26, Range 21, W.P.M.

N.E.<sup>1</sup>/<sub>4</sub> Sec. 13, S.W.<sup>1</sup>/<sub>4</sub> Sec. 15, E<sup>1</sup>/<sub>2</sub> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 21, N.E.<sup>1</sup>/<sub>4</sub> Sec. 26, N.W.<sup>1</sup>/<sub>4</sub> Sec. 27, S.W.<sup>1</sup>/<sub>4</sub> Sec. 33, E<sup>1</sup>/<sub>2</sub> and N.E.<sup>1</sup>/<sub>4</sub> Sec. 35.  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22, 24, 28 to 30 incl., 32, 34 and 36.

Township 27, Range 21, W.P.M.

N.W.<sup>1</sup>/<sub>4</sub> Sec. 9, N<sup>1</sup>/<sub>2</sub> Sec. 10, N<sup>1</sup>/<sub>2</sub> Sec. 11, E<sup>1</sup>/<sub>2</sub> Sec. 12, E<sup>1</sup>/<sub>2</sub> Sec. 15, E<sup>1</sup>/<sub>2</sub> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 25, N.E.<sup>1</sup>/<sub>4</sub> Sec. 26, N<sup>1</sup>/<sub>2</sub> Sec. 27, N.W.<sup>1</sup>/<sub>4</sub> Sec. 33, E<sup>1</sup>/<sub>2</sub> Sec. 35.  
All Sections 14, 16, 18, 20, 22 to 24 incl., 28 to 30 incl., 32, 34 and 36.

Township 28, Range 21, W.P.M.

N<sup>1</sup>/<sub>2</sub> Sec. 17, E<sup>1</sup>/<sub>2</sub> Sec. 21, W<sup>1</sup>/<sub>2</sub> and S.W.<sup>1</sup>/<sub>4</sub> Sec. 33.  
All Sections 4, 8, 9, 16, 18 to 20 incl., 28 to 32 incl.

Township 26, Range 22, W.P.M.

W<sup>1</sup>/<sub>2</sub> and N.E. Sec. 10, N.E.<sup>1</sup>/<sub>4</sub> Sec. 26.  
All Sections 2, 11, 12, 14, 22, 24, 34 and 36.

Township 27, Range 22, N.P.M.

N<sup>1</sup>/<sub>2</sub> Sec. 10, W<sup>1</sup>/<sub>2</sub> Sec. 11, E<sup>1</sup>/<sub>2</sub> Sec. 12, N.E.<sup>1</sup>/<sub>4</sub> Sec. 26.  
All Sections 14, 22, 24, 25, 34 and 36.

Township 28, Range 22, W.P.M.

N<sup>1</sup>/<sub>2</sub> Sec. 26.  
All Sections 1, 2, 4, 6 to 8 incl., 10 to 12 incl., 14 to 20 incl., 22 to 24 incl., Sec. 27 to 34 and 36.

Township 29, Range 22, W.P.M.

E<sup>1</sup>/<sub>2</sub> Sec. 9, W<sup>1</sup>/<sub>2</sub> and N.E.<sup>1</sup>/<sub>4</sub> Sec. 13, S.W.<sup>1</sup>/<sub>4</sub> Sec. 15, W.W.<sup>1</sup>/<sub>4</sub> Sec. 21, S<sup>1</sup>/<sub>2</sub> Sec. 25, N.E.<sup>1</sup>/<sub>4</sub> Sec. 26, W<sup>1</sup>/<sub>2</sub> Sec. 27, E<sup>1</sup>/<sub>2</sub> Sec. 33.  
All Sections 1 to 7 incl., 10 to 12 incl., 14, 16 to 20 incl., 22, 24, 28 to 32 incl., 34 and 36.

Township 30, Range 22, W.P.M.

All Sections 2, 11 to 14 incl., 23 to 25 incl., 35 and 36.

Preservation Co. 1

Township 21, Range 15, T.P.M.

S.E.<sup>1</sup>/<sub>4</sub> Sec. 7, N<sup>1</sup>/<sub>4</sub> and S.W.<sup>1</sup>/<sub>4</sub> Sec. 9, S.E.<sup>1</sup>/<sub>4</sub> Sec. 17, S.E.<sup>1</sup>/<sub>4</sub> Sec. 19,  
N.W.<sup>1</sup>/<sub>4</sub> Sec. 21, S.W.<sup>1</sup>/<sub>4</sub> Sec. 33.  
All sections 4 to 6 incl., 16, 18, 20, and 28 to 32 incl.

Township 21, Range 16, T.P.M.

N.E.<sup>1</sup>/<sub>4</sub> Sec. 11, N.W.<sup>1</sup>/<sub>4</sub> Sec. 13, E<sup>1</sup> and S.W.<sup>1</sup>/<sub>4</sub> Sec. 14,  
N.E.<sup>1</sup>/<sub>4</sub> Sec. 26, N.W.<sup>1</sup>/<sub>4</sub> Sec. 28, E<sup>1</sup>/<sub>4</sub> Sec. 31.  
All sections 1, 12, 22 to 25 incl., 27 and 32 to 36 incl.

Township 22, Range 16, T.P.M.

N<sup>1</sup>/<sub>4</sub> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 3, E<sup>1</sup>/<sub>4</sub> Sec. 9, E<sup>1</sup>/<sub>4</sub> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 13,  
E<sup>1</sup>/<sub>4</sub> Sec. 19, E<sup>1</sup>/<sub>4</sub> Sec. 25, N.W.<sup>1</sup>/<sub>4</sub> Sec. 26,  
All sections 1, 2, 4 to 7 incl., 10 to 12 incl., 14 to  
18 incl., 20 to 24 incl., and 27 to 36 incl.

Township 23, Range 17, W.F.V.

S.E.<sup>1</sup>/<sub>4</sub>, N.W.<sup>1</sup>/<sub>4</sub> and W<sup>1</sup>/<sub>4</sub> of N.E.<sup>1</sup>/<sub>4</sub> Sec. 1, S<sup>1</sup>/<sub>4</sub> Sec. 3, S<sup>1</sup>/<sub>4</sub> Sec. 9,  
S.W.<sup>1</sup>/<sub>4</sub> Sec. 21, N.W.<sup>1</sup>/<sub>4</sub> Sec. 26, N.E.<sup>1</sup>/<sub>4</sub> Sec. 33.  
All sections 2, 4, 6, 7, 10 to 14 incl., 16 to 20 incl.,  
22, 24, 23 to 32 incl., 34 and 36.

Township 24, Range 17, T.P.M.

E<sup>1</sup> and N.E.<sup>1</sup>/<sub>4</sub> Sec. 4, E<sup>1</sup>/<sub>4</sub> Sec. 8.  
All sections 5 to 7 incl., and 16 to 18 incl.

Township 23, Range 18, T.P.M.

N.E.<sup>1</sup>/<sub>4</sub> Sec. 1, E<sup>1</sup> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 12, E<sup>1</sup>/<sub>4</sub> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 13,  
N.W.<sup>1</sup>/<sub>4</sub> Sec. 26, N.W.<sup>1</sup>/<sub>4</sub> Sec. 27.  
All sections 2 to 24 incl., 28, 32, 34 and 36.

Township 24, Range 17, W.P.M.

E<sup>1</sup>/<sub>4</sub> Sec. 4, W<sup>1</sup>/<sub>4</sub> Sec. 6.  
All sections 7, 10 to 12 incl., 14, 16 and 18.

Township 23, Range 19, T.P.M.

All sections 31, 32, 34 and 36.

Township 24, Range 19, T.P.M.

S<sup>1</sup>/<sub>4</sub> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 2, N.W.<sup>1</sup>/<sub>4</sub> Sec. 9, E<sup>1</sup>/<sub>4</sub> and S.W.<sup>1</sup>/<sub>4</sub> Sec. 14,  
E<sup>1</sup> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 18.  
All sections 4, 6, 10, 11 and 16.

Township 24, Range 20, T.P.M.

S<sup>1</sup>/<sub>4</sub> Sec. 13, W<sup>1</sup>/<sub>4</sub> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 18, N<sup>1</sup>/<sub>4</sub> Sec. 21, N.E.<sup>1</sup>/<sub>4</sub> Sec. 25,  
E<sup>1</sup>/<sub>4</sub> Sec. 26, E<sup>1</sup>/<sub>4</sub> Sec. 27, E<sup>1</sup>/<sub>4</sub> Sec. 33, E<sup>1</sup> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 34,  
W<sup>1</sup>/<sub>4</sub> and N.W.<sup>1</sup>/<sub>4</sub> Sec. 36.  
All sections 2, 4, 6, 10 to 12 incl., 14, 16, 20, 27, 24,  
28 to 30 incl., and 32.



Reservation of Oil Shale Rights No. 1

In consideration of and subject to the provisos, conditions and restrictions hereinafter contained, permission is hereby granted to

Sur Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely

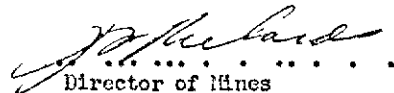
<u>Township</u>	<u>Range</u>
21	15
21 and 22	16
23 and 24	17
23 and 24	18
23 and 24	19
24	20
21, 25, 26, 27 and 28	21
26, 27, 28, 29 and 30	22

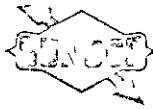
all West of the Principal Meridian, containing 197,030.12 acres, more or less. See Attached List.

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

30th day of July, 1964.

  
Director of Mines



JUN 29 1965  
 DIRECTOR MINES

GEORGE E. DUNLAP  
 Manager Canadian Production Division  
 LLOYD E. MILLER  
 Assistant Division Manager

SUN OIL COMPANY PETRO-CHEMICAL BUILDING 805 8th Avenue W. Drawer 38 Calgary Alberta Canada

June 25, 1965

*See all sheets file*

Mr J S Richards,  
 Department of Mines and Natural Resources,  
 901 Norquay Building - 401 York Avenue,  
 WINNIPEG 1, Manitoba

Dear Sir

I am enclosing herewith three copies showing all of the analyses we have received to date for our Manitoba core holes. These are analyses for core holes No 13, No 16C, No 17, No 19A, No 20 and No 21 and you will note that some sheets which are enclosed herewith show more than one well. These same sheets also show our outcrop samples with those having a prefix "L" having been taken by our geologist whose name was Linckens. Some of the samples enclosed herewith were prepared and analyzed by the Chemical and Geological Laboratory here in Calgary. These are for hole No 13, No 20 and No 21 and this analysis is dated May 25th. We consider this to be a fairly correct analysis, however, you will note that we have also enclosed analyses for the same holes from the same people dated April 13th. It was this first set of analyses that made us feel that there may be an error and as a result we took one of our Saskatchewan cores where half of the core had already been analyzed by the Chemical and Geological Lab and sent the balance of the core to Colorado for comparative analysis. As a result we came to the conclusion that the Chemical and Geological analysis was too low and they have rechecked their procedure and recalibrated their process and have given us the May 25th analysis.

*also see file*

The core from core hole No 18 has been shipped to Golden, Colorado but we do not anticipate having the results for at least another two weeks. The core recovery on hole No 16A was very poor and it therefore has not been analyzed.

Very truly yours,  
  
 E E Gilbert

EEG/gm  
 Encl

p. c. to: Mr. M. J. Gobert,  
 Assistant Deputy Minister.  
 Dr. J. F. Davies,  
 Chief Geologist.

June 25, 1965

Mr J R Richards

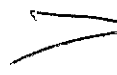
I am enclosing herewith two zerox copies of items which I feel may be of some interest to you. One of these mentions the opening of the bridge at Fort McMurray, the other describes the surrender of the Montreal Trust holdings in the oil shale area of Saskatchewan. These Montreal Trust lands, in my opinion, are lands which were taken on behalf of Imperial Oil. They lie to the north of Sun's Pasquia Hills area as well as to the west of Sun's Pasquia Hills and a third block lies to the south of Sun's Saskatchewan oil shale permits and to the west of Sun's Manitoba oil shale reservations.



E E Gilbert

EEG/gm  
Encl

p. c. to: Mr. M. J. Gobert,  
Assistant Deputy Minister; -- with two enclosures.

 Dr. J. F. Davies,  
Chief Geologist; -- with two enclosures.

August 5, 1964.

Shell Canada Limited,  
P. O. Box 186,  
Edmonton, Alberta.

ATT: Mr. D.W. Walker

Re: Oil Shale Reservations -  
Manitoba.

Dear Sir:

Enclosed are copies of Reservations #1 to #8, Townships  
21 to 44, comprising some 1,476,532 acres, and a copy of the  
Regulations 42/64 under which the reservations were acquired.

Yours very truly,

F. S. Gamey,  
Reservoir Geologist.

FSG/lk

July 28, 1964.

*Handwritten: Houghton, J. S. Richards*

J. S. Richards,  
Director of Mines.

**COPY** Mr. Stuart Anderson,  
Deputy Minister.

Sun Oil Company -

Oil Shale Reservations.

Attached, hereto, the original and a copy of Sun Oil's application for eight reservations of oil shale rights. These are the same areas which were discussed with the company sometime ago.

As you are aware, Section 192A of the Regulations provides that the granting of all such reservations are "Subject to the approval of the minister, .....".

If satisfactory, would you kindly have the approval indicated on the original application, and return it to this office.

Sun letter, outlining the proposed program, is also attached.

*Handwritten signature of J. S. Richards*  
J. S. Richards.

JSR:db

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

*Handwritten signature*  
Mr. T. Morgan,  
Chief Mining Recorder.

*Handwritten signature*  
Dr. J. F. Davies,  
Chief Geologist.

"Approved by  
Hon. George Hutton  
Acting Minister of Mines and  
Natural Resources"

# Montreal Trust Company

EXECUTORS & TRUSTEES • NOTRE DAME AT ALBERT STREET, WINNIPEG MAN • TELEPHONE WHItEhAIt 3-0481

July 27th, 1964.

Attention - Mr. Richards

Department of Mines and Natural Resources,  
Mines Branch,  
WINNIPEG,  
M a n i t o b a

Dear Sirs

On behalf of Sun Oil Company, Calgary, we now make application for exploration permits covering the following blocks of land set out in the attached list.

Attached you will also find a letter from Sun Oil Company describing the scope of the exploration and examination to be carried out and the estimated cost thereof. This is required under your regulations and we trust you will find it in order.

Application fees and deposits to be paid are estimated as follows --

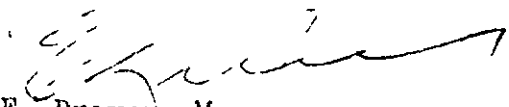
	<u>Application Fee</u>	<u>Deposit</u>
Reservation #1	\$250.00	\$7,500.00
#2	250.00	7,500.00
#3	250.00	7,500.00
#4	250.00	7,500.00
#5	250.00	7,500.00
#6	250.00	7,500.00
#7	250.00	7,500.00
#8	250.00	4,500.00
	<hr/>	<hr/>
	\$2,000.00	\$7,000.00
		2,000.00
		<hr/>
Total .....		\$9,000.00

- 2 -

You already have our cheque for \$69,500.00 which was forwarded with our letter of June 1st, 1964. Thus, there would appear to be a refund due us for the credit of Sun Oil Company of \$10,500.00. We presume you will remit this to us at your convenience.

Yours truly,

MONTREAL TRUST COMPANY



V. E. Driver, Manager,  
Mortgage Department

VED/lr

Encl.

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

Mr. T. Morgan,  
Chief Mining Recorder;

Dr. J. F. Davies,  
Chief Geologist.

# SUN OIL COMPANY

CANADIAN PRODUCTION DIVISION

805 8TH AVE W  
PO DRAWER 38

**CALGARY, ALBERTA**  
CANADA

17 July 1964

G E DUNLAP  
MANAGER

L E MILLER  
ASSISTANT MANAGER

M E AUSTIN  
SUPT OPERATING DEPT

Chief Mining Recorder,  
Department of Mines and Natural Resources,  
Mines Branch,  
WINNIPEG, Manitoba.

Dear Sir

Pursuant to Manitoba Regulation 42/64, you require data setting out the extent of the examination to be made and the estimated cost thereof

It is our present plan to perform surface field geology along the exposed outcrops of the Niobrara formation within the Province of Manitoba and upon our various oil shale reservations. In the course of our surface geological investigations, we will take samples of the outcropping formations and these samples will be analysed for oil content and other associated mineral content. These samples will be analysed in one of several laboratories, either Colorado School of Mines at Golden, Colorado or our own Research Laboratory at Richardson, Texas, or in our newly built laboratory in Calgary, or perhaps at some as yet undetermined laboratory

From the analyses we anticipate determining

- 1 Oil content in gallons per ton
- 2 The specific gravity of the oil
- 3 The amount of total water in gallons per ton

In addition, we will further analyse the oil shale to determine its other chemical properties.

Following our initial analyses of the samples taken in the field, we will determine whether any area appears to contain oil shales approximating the oil content which we believe would be required in order to economically proceed towards potential plant construction. We will then proceed with more detailed geological field examination and with further sample recovery and analyses. This will cover more closely



located outcrops within the same apparently desirable area and this work will undoubtedly include trenching of the outcrop face so that the surface samples may be obtained below the weathered surface

If these more detailed samples support the earlier studies and show that an area of apparently economic oil shales has been located, we will then quite possibly wish to do sub-surface examinations through core hole drilling to further delineate the extent of the apparently economic oil shales. We anticipate that the cost of a surface geological field party, consisting of two men, will be approximately \$4,000 per month. In addition, our present arrangement with the Colorado School of Mines is that we will pay \$1.00 per sample for sample preparation and \$4.00 per sample for the Fischer Analysis. These prices are in U.S. dollars. In addition, we will have some costs attributable to our further analyses in our Richardson and Calgary laboratories. We do not know yet what these costs will be, however, one test which will be made on selected samples is X-Ray analysis and I understand this costs approximately \$30.00 per sample. It is impossible at this point to determine how many samples will be analysed and what our costs will be for this analyses work. In actuality, it really depends upon what quality of oil shale we find in our initial field geological work.

The problems associated with our oil shale exploration are entirely new and we just cannot say for sure what our full program will eventually entail. At present we have a geologist by the name of William Linckens, who is a consultant, and his assistant William Goodman, working along the Niobrara outcrops in the Province of Manitoba. These men are working under the supervision of our Chief Geologist, Mr. H. Westmore, who is a Professional Engineer for the Province of Manitoba.

It is impossible for me at this time to estimate what our total exploration expenditures on these permits will be. We do realize of course that we have placed deposits and at present I anticipate that our expenditures may approximate those deposits. This is such a new problem as compared to the conventional oil business that we just cannot firmly say what our costs will be.

I trust that this report will be sufficient for the formal application for these oil shale permits which have been applied for by the Montreal Trust Company for the Sun Oil Company.

Yours very truly



E E Gilbert

EEGss

p. c. to: Mr. Stuart Anderson, Deputy Minister.  
Mr. M. J. Gobert, Assistant Deputy Minister.  
Orig. to: Mr. T. Morgan, Chief Mining Recorder.  
p. c. to: Dr. J. F. Davies, Chief Geologist.

# SUN OIL COMPANY

CANADIAN PRODUCTION DIVISION

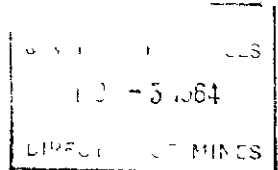
G E DUNLAP  
MANAGER

805 8TH AVE W  
P O DRAWER 38  
CALGARY, ALBERTA  
CANADA

4 November 1964

L E MILLER  
ASS ST NT M NAGER  
M E AUSTIN  
SUPT OPERATING DE T

Department of Mines and Natural Resources,  
Mines Branch Director's Office,  
901 Norquay Building - 401 York Avenue,  
WINNIPEG 1, Manitoba



Attention Mr J S Richards

Dear Sir

The Royal Bank of Canada, Main Branch Calgary Alberta is forwarding Dominion of Canada Government Bonds to the value of \$57 000 for deposit with your department with regard to our oil shale reservations numbered 1 to 8 inclusive. In addition the same bank is forwarding similar bonds to the value of \$3, 000 for deposit with your department to replace a cash drilling deposit which has previously been placed with your department.

When the bonds have been received, will you please return our cash deposits to my attention.

Thanking you, I remain,

Yours very truly

E E Gilbert

EEGss

November 13, 1964.

Chief Accounting Recorder

Departmental Accountant

Attention Mr. F. V. Stewart

Sun Oil Company

I would advise you that Oil Shale Reservations were issued to the above Company on July 30, 1964, and cash in the amount of \$57,000.00 deposited as a performance bond.

On November 12, 1964, The Royal Bank of Canada forwarded \$60,000.00 Government of Canada Bonds 4% due September 1, 1963, T 29 C00749/50 inc., D 00433/54 inc., with March 1965 date. I telephoned James Richardson today, and they quoted the selling price of these bonds at 93.00, so the cash value of these bonds today would be \$55,800.00

Interest payable March 31, 1965 will be \$1,350.00, being the value of the deposit to \$57,150.00. The deposit is not callable after this date.

Please advise Treasury not to clip the coupons without our approval.

T. Morgan.

TEJ/ed

November 18, 1964

141 C. Perry  
111. 113  
Company, Inc.

Dear Mr. Perry:

Your letter of November 1, addressed to the  
Director of the Bureau has been forwarded to this office for  
attention.

The Bureau of Land Management has received  
information from the Bureau of Reclamation, Denver, Colorado  
regarding the proposed construction of a dam on the  
Colorado River, which will result in the construction of  
a reservoir on the Colorado River. The Bureau of Land Management  
is currently reviewing the proposed construction of the dam  
and the proposed construction of the reservoir.

As the proposed construction of the dam and  
reservoir will result in the construction of a reservoir  
on the Colorado River, which will result in the construction  
of a reservoir on the Colorado River, the Bureau of Land  
Management is currently reviewing the proposed construction  
of the dam and the proposed construction of the reservoir.

Very truly,  
Yours truly,

Chief Clerk, Recorder

Sincerely,

cc: Bureau of Land Management



GEORGE E. DUNLAP  
Manager Canadian Production  
LLOYD F. MILLER  
Assistant Division Manager

PRODUCTION DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 805 8th Avenue W. Drawer 38 Calgary Alberta Canada

March 10, 1965

Department of Mines & Natural Resources  
Mines Branch  
Recording Division  
904 Norquay Building  
401 York Avenue  
Winnipeg 1, Manitoba

Attention Mr. T. Morgan

Dear Sir

On November 9, 1964, the Royal Bank of Canada forwarded \$60,000 Canada Conversion 4 1/2% Bearer Bonds to your department to replace our cash deposits held by you as follows

Oil Shale Reservations Nos. 1 to 8	\$57,000
Drilling License No. 2019	3,000

To date we have been refunded the \$57,000 cash deposit on the Oil Shale Reservations but have not received the \$3,000 being held as a Drilling deposit.

Would you kindly look into this matter and refund the \$3,000 as soon as possible.

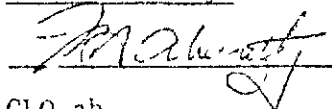
As the interest coupons on the \$60,000 bonds became payable March 1, 1965, we would appreciate it if you would clip these coupons and forward them to the following bank for deposit to our regular account.

The Royal Bank of Canada  
740 - 8th Avenue S.W.  
CALGARY, Alberta

Please double register the transmission of these coupons and kindly charge us for any costs that you may have incurred in this connection.

Please use this letter as your standing authority to clip all subsequent coupons as they fall due and forward them to the address mentioned above.

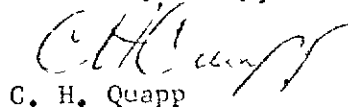
Authorized by

  
C. H. Quapp

CI Q ah



Yours very truly,

  
C. H. Quapp

COPY

August 27, 1966.

W. J. Court,  
Assistant Deputy Minister.

1000,  
OIL 1105.

Sun Oil Company -

Oil Shale Reservations.

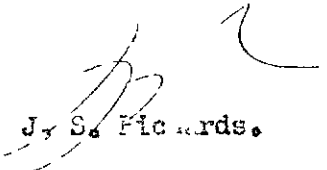
Attached, hereto, copy of a letter from  
Mr. F. D. Jones, together with a copy of the "Statement of  
Expenses Incurred", referred to herein.

The expenditures as such are reasonable,  
including the method of allocating research expenses, namely,  
'that portion which our Manitoba ..... acreage bears to our  
total Canadian ..... holdings .....

You will note, in the last paragraph, that  
it is the company's intention to apply for a refund under  
Section 1921 (2). This suggestion, as you are aware, is not in  
accord with our understanding of the points of agreement reached  
in discussions with Mr. E. L. Gilbert.

In my memo to file, dated August 25, 1966,  
(under 3.), I stated that Mr. Gilbert agreed that, if no work  
was done during the second year "it would be equitable for the  
Crown to retain the entire work deposit posted by Sun Oil." I  
believe you agree with this statement.

Kindly advise if I shall write to Sun Oil,  
advising them accordingly.

  
J. S. Richards.

JSP ab

Encs.

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

GEORGE E. DUNLAP  
Manager Canadian Production Division  
LLOYD E. MILLER  
Assistant Division Manager

PROJECT ON DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 805 8th Avenue W • Drawer 38 Calgary Alberta Canada

January 5, 1966.

Department of Mines and Natural Resources,  
Mines Branch,  
904 Norquay Building,  
401 York Ave.,  
Winnipeg 1, Manitoba.

DEPARTMENT OF  
& NATURAL RESOURCES  
JAN 5 - 1966  
DIRECTOR

ATTENTION Mr J.S Richards.

Dear Sir

RE Manitoba Oil Shale Permits 1-8 Inclusive,  
dated July 30, 1964.  
Manitoba Oil Shale Permit #10, dated October  
23, 1964

In accordance with Section 192 I of the Oil Shale  
Reservation Regulations, we enclose a Statement of Expenditures verified by  
the firm, Geib, Valestak & Co., Chartered Accountants, relating to expenses  
incurred by Sun Oil Company on the above noted Reservations for the period  
ending June 1, 1965. Detailed progress reports pursuant to Section 192 I (1)  
have been forwarded previously.

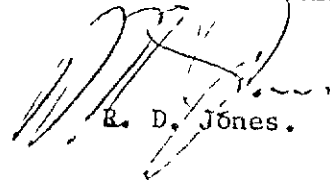
As a word of explanation, we wish to point out that  
total expenditures involved in research amounted to much more than reported in  
this Statement. The amount reported here is that portion which our Manitoba  
Oil Shale acreage bears to our total Canadian Oil Shale holdings and to which  
our research program was related. We trust you will find this method of  
allocating expenditures satisfactory.

In the event the enclosed expenditures, in the  
amount of \$48,497 21, meets with your approval it will be our intention to  
apply for a refund of cash deposits under Section 192 I (2).

Kindly advise if further information is required.

P. c. to: Mr. H. J. Gobert,  
Assistant Deputy Minister;  
with Statement of Expenditures Incurred.  
Mr. T. Morgan, Chief Mining Recorder.

Yours very truly,  
SUN OIL COMPANY,

  
R. D. Jones.

RDJ/cbm,  
Enclosures

D E C L A R A T I O N  
TO - DEPARTMENT OF MINES AND NATURAL RESOURCES  
PROVINCE OF MANITOBA  
MINES BRANCH


IN THE MATTER OF Crown Reservation of Oil Shale Rights  
# 1 to # 8 inclusive and Reservation of Oil Shale Rights # 10

TO WIT, I, Otto Joseph Geib, of the City of Calgary, in the  
Province of Alberta, a partner in the firm of Geib, Valestuk Loeppky & Co ,  
Chartered Accountants, do solemnly declare

- 1        THAT Expenditures incurred by Sun Oil Company in connection  
         with Reservations of Oil Shale Rights #1 to #8 inclusive and  
         #10, for the period from June 1, 1965 to February 28, 1966  
         are as shown on Exhibit "A" attached hereto.
  
- 2        AND 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 15<sup>th</sup> day of June  
A D 1965.

Otto Joseph Geib

  
A Notary Public in and for the  
Province of Alberta



Statement of Expenditures Incurred  
by Sun Oil Company  
On Manitoba Reservation of Oil Shale Rights  
Numbers 1 to 8 Inclusive and #10  
From June 1, 1965 to February 28, 1966

Sun Oil Company Research Expenses on Oil Shale Technology Incurred by Sun Oil Company's research laboratory in the United States	\$ 60,951 90
Audit Fees	<u>10 00</u>
	\$ 60,961 90
Sun Oil Company administrative overhead of 8% added to above expenditures	<u>4,876 15</u> \$ 65,838 05

*Olto Joseph*  
- 1 -  
15 5  
June 66  
*[Signature]*  
8 14 1966

DECLARATION

TO - DEPARTMENT OF MINES AND NATURAL RESOURCES  
PROVINCE OF MANITOBA  
MINES BRANCH

IN THE MATTER OF Crown Reservation of Oil Shale Rights  
#1 to #3 inclusive and Reservation of Oil Shale Rights #10.

TO WIT, I, Otto Joseph Geib, of the City of Calgary, in the  
Province of Alberta, a partner in the firm of Geib, Valestuk & Co.,  
Chartered Accountants, do solemnly declare

1. THAT Expenditures incurred by Sun Oil Company in connection  
with Reservations of Oil Shale Rights #1 to #3 inclusive and  
#10, for the period ending June 1, 1965 are as shown on  
Exhibit "A" attached hereto.

2. AND 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 day of November  
A.D. 1965.

Otto Joseph Geib  
Otto Joseph Geib

[Signature]  
A Notary Public in and for the  
Province of Alberta

Statement of Expenditures Incurred  
 by Sun Oil Company  
 On Manitoba Reservation of Oil Shale Rights  
 Numbers 1 to 8 Inclusive and #10  
To June 1, 1965

Field Party Expenses (Party No. 12) Incurred to gather oil shale samples along outcrop on Manitoba escarpment for analysis and to establish regional trends of oil shale occurrences.	\$ 1,983.00
Second Core Hole Program To establish regional trends of oil shale values along edge of outcrop after failure of field parties.	11,228.35
Outside Consultant Report To obtain preliminary evaluation of the economic potential of Manitoba oil shales and advise as to recommended exploration program.	3,462.00
Sun Oil Company Research Expenses on Oil Shale Technology Incurred by Sun Oil Company's research laboratory in the United States.	28,156.48
Audit Fees	<u>75.00</u>
Sun Oil Company administrative overhead of 8% added to above expenditures.	\$ 44,904.83 <u>3,592.38</u>
	\$ <u>48,497.21</u>

Note

This is the Exhibit "A" referred to in the declaration  
 of Mr. Otto Joseph Geib dated \_\_\_\_\_ A.D. 1965

This is a true and correct copy of the  
 original as shown to me  
 of \_\_\_\_\_ taken  
 before me this \_\_\_\_\_ day of  
December 1965  
 \_\_\_\_\_  
 Notary Public for the State of  
 Illinois

DECLARATION

TO - DEPARTMENT OF MINES AND NATURAL RESOURCES  
PROVINCE OF MANITOBA  
MINES BRANCH

IN THE MATTER OF Crown Reservation of Oil Shale Rights  
#1 to #8 inclusive and Reservation of Oil Shale Rights #10.

TO WIT, I, Otto Joseph Geib, of the City of Calgary, in the  
Province of Alberta, a partner in the firm of Geib, Valestuk & Co.,  
Chartered Accountants, do solemnly declare:

1. THAT Expenditures incurred by Sun Oil Company in connection  
with Reservations of Oil Shale Rights #1 to #8 inclusive and  
#10, for the period ending June 1, 1965 are as shown on  
Exhibit "A" attached hereto.

2. AND 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 17<sup>th</sup> day of November  
A D 1965.

Otto Joseph Geib  
Otto Joseph Geib

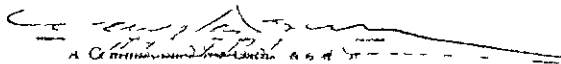
[Signature]  
A Notary Public in and for the  
Province of Alberta

Statement of Expenditures Incurred  
by Sun Oil Company  
On Manitoba Reservation of Oil Shale Rights  
Numbers 1 to 8 Inclusive and #10  
To June 1, 1965

Field Party Expenses (Party No. 12)	\$ 1,983.00
Incurred to gather oil shale samples along outcrop on Manitoba escarpment for analysis and to establish regional trends of oil shale occurrences.	
Second Core Hole Program	11,228.35
To establish regional trends of oil shale values along edge of outcrop after failure of field parties.	
Outside Consultant Report	3,462.00
To obtain preliminary evaluation of the economic potential of Manitoba oil shales and advise as to recommended exploration program.	
Sun Oil Company Research Expenses on Oil Shale Technology	23,156.48
Incurred by Sun Oil Company's research laboratory in the United States.	
Audit Fees	<u>75.00</u>
	\$ 44,904.83
Sun Oil Company administrative overhead of 8% added to above expenditures.	<u>3,592.38</u>
	<u>\$ 48,497.21</u>

Note

This is the Exhibit "A" referred to in the declaration of Mr. Otto Joseph Geib dated \_\_\_\_\_ A.D. 1965

*This is Exhibit "A" referred to in the*  
*declaration of Mr. Otto Joseph Geib*  
*of \_\_\_\_\_ taken*  
*before me this \_\_\_\_\_ day of*  
*December 1, 1965*  
  
 A Notary Public in and for the State of  
 Illinois  
 My Comm. Expires \_\_\_\_\_

SUN OIL CO.  
DRAWN  
CAL.

Reservation of Oil Shale Rights No. 2

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely

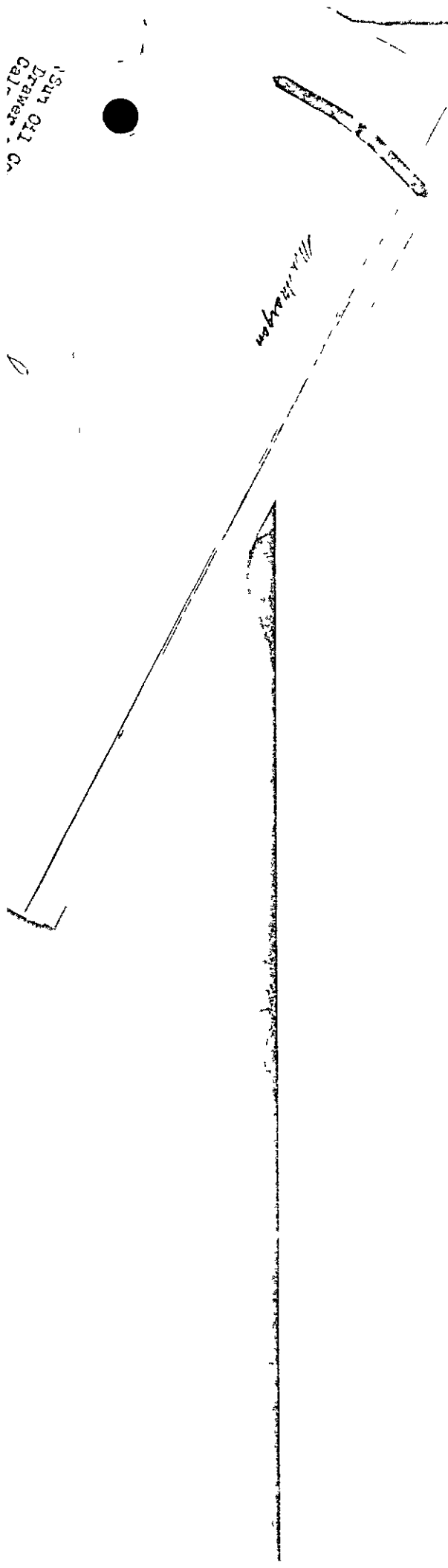
<u>Township</u>	<u>Range</u>
30, 31, 32 and 33	22
30, 31, 32 and 33	23
30 and 31	24

all West of the Principal Meridian and containing an area of 194,432.00 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  
30th day of July, 1964.

*J. P. Richards*  
Director of Mines



Reservation No. 2

Township 30, Range 22, W.P.M.

N.E.  $\frac{1}{4}$  Sec 15, N.E.  $\frac{1}{4}$  Sec 21, S Sec. 33.  
All Sections 4 to 7 incl., 9, 10, 16 to 20 incl., 22,  
27 to 32 incl., and 34.

Township 31, Range 22, W.P.M.

N.E.  $\frac{1}{4}$  Sec. 26.  
All Sections 1 to 7 incl., 9 to 25 incl., and 27 to 36 incl.

Township 32, Range 22, W.P.M.

All Sections 4 to 7 incl., 9, 16 to 21 incl., and 28  
to 33 incl.

Township 33, Range 22, W.P.M.

All Sections 4 to 7 incl., 9, 16 to 21 incl., and 28  
to 33 incl.

Township 30, Range 23, W.P.M.

All Sections 1 to 36 incl.

Township 31, Range 23, W.P.M.

All Sections 1 to 36 incl.

Township 32, Range 23, W.P.M.

N.E.  $\frac{1}{4}$  Sec. 26.  
All Sections 1 to 25 incl., and 27 to 36 incl.

Township 33, Range 23, W.P.M.

N.E.  $\frac{1}{4}$  Sec 26,  
All Sections 1 to 25 incl., and 27 to 36 incl.

Township 30, Range 24, W.P.M.

All Sections 1 to 36 incl.

Township 31, Range 24, W.P.M.

All Sections 1 to 36 incl.

Sun Oil Company  
Calgary 38

Reservation of Oil Shale Rights No. 3

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
34, 35 and 36	23
32, 33, 34, 35 and 36	24
34, 35 and 36	25
36	26

all West of the Principal Meridian, and containing an area of 192,795.70 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 examinations shall be restricted to surface geology.

Dated at Winnipeg this  
30th day of July, 1964.

*J. Richards*  
.....  
Director of Mines

Winnipeg



Reservation No. 3

Township 24, Range 23, T.P.M.

N.E.  $\frac{1}{4}$  Sec. 26.  
All Sections 1 to 7, 9 to 25 incl., and 27 to 36 incl.

Township 25, Range 23, T.P.M.

All Sections 4 to 7 incl., 9, 16 to 21 incl., and 23 to 33 incl.

Township 26, Range 23, T.P.M.

All Sections 4 to 9 incl., and 16 to 18 incl.

Township 32, Range 24, W.P.M.

All Sections 1 to 36 incl.

Township 33, Range 24, W.P.M.

All Sections 1 to 36 incl.

Township 34, Range 24, W.P.M.

All Sections 1 to 36 incl.

Township 35, Range 24, T.P.M.

All Sections 1 to 36 incl.

Township 26, Range 24, W.P.M.

All Sections 1 to 7 incl., and 9 to 18 incl.

Township 34, Range 25, W.P.M.

All Sections 1 to 36 incl.

Township 35, Range 25, W.P.M.

All Sections 1 to 4 incl., 6, 10 to 16 incl., 18, 20, 22 to 30 incl., 32, and 34 to 36 incl.

Township 36, Range 25, T.P.M.

All Sections 2, 4, 6, 10 to 12 incl., 14, 16 and 18.

Township 36, Range 26, W.P.M.

N.E.  $\frac{1}{4}$  Sec. 15.  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16 and 18.

Sun Oil Company  
Calgary, Alberta

Reservation of Oil Shale Rights No. 4

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
32 and 33	25
33, 34 and 35	26
33, 34 and 35	27
33 and 34	28
34	29

all West of the Principal Meridian, and containing an area of 199,247.15 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 case described in section 2 of the said regulation is made, the examination shall be restricted to surface geology

Dated at Winnipeg this  
30th day of July, 1964.

*J. J. Richards*  
.....  
Director of Mines

Section No. 1.

Township 33, Range 25, W.P.M.

All Sections 1 to 36 incl.

Township 33, Range 25, W.P.M.

All Sections 1 to 36 incl.

Township 33, Range 26, W.P.M.

All Sections 1 to 36 incl.

Township 34, Range 26, W.P.M.

All Sections 1 to 36 incl.

Township 35, Range 26, W.P.M.

W<sup>1</sup>/<sub>2</sub> and N.E.<sup>1</sup>/<sub>4</sub> Sec. 5,  
All Sections 1 to 4 incl., 6, 10 to 12 incl., 14, 16, 18,  
20, 22, 24, 28 to 30 incl., 32, 34 and 36.

Township 33, Range 27, W.P.M.

All Sections 1 to 36 incl.

Township 34, Range 27, W.P.M.

S<sup>1</sup>/<sub>4</sub> Sec. 21, N.E.<sup>1</sup>/<sub>4</sub> Sec. 26, E<sup>1</sup>/<sub>4</sub> Sec. 27, S.E.<sup>1</sup>/<sub>4</sub> Sec. 35,  
All Sections 1 to 7 incl., 9 to 14 incl., 16, 18, 20, 22,  
23, 24, 25, 28 to 30 incl., 32, 34 and 36.

Township 35, Range 27, W.P.M.

All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.

Township 33, Range 28, W.P.M.

E<sup>1</sup>/<sub>4</sub> Sec. 25, N.E.<sup>1</sup>/<sub>4</sub> Sec. 26, N<sup>1</sup>/<sub>4</sub> Sec. 27,  
All Sections 1 to 6 incl., 9 to 18 incl., 20, 22 to 24 incl.,  
28 to 30 incl., 32 and 34 to 36 incl.

Township 34, Range 28, W.P.M.

N.E.<sup>1</sup>/<sub>4</sub> Sec. 26,  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.

Township 34, Range 29, W.P.M.

N.E.<sup>1</sup>/<sub>4</sub> Sec. 26,  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.

SUN OIL COMPANY  
CALGARY  
ALBERTA



Reservation of Oil Shale Rights No. 5

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors, and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
39 and 40	26
38 and 39	27
35, 37, 38 and 39	28
35, 36, 37 and 38	29

all west of the Principal Meridian, and containing an area of 197,377.15 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 govern-

ing the disposal of boring claims, and any amendments thereto. Until the cash deposit required under subsection 2 of section 1926 of the said regulation is made, the examination will be restricted to surface geology.

Dated at Winnipeg this

30th day of July, 1964

*[Signature]*  
.....  
Director of Mines

*Winnipeg*

*6*

Township 39, Range 26, W.P.M.

N.E.  $\frac{1}{4}$  Sec. 26,  
All Sections 1 to 25 incl, and 27 to 36 incl.

Township 40, Range 26, W.P.M.

All Sections 1, 2, 11 to 14 incl., 23 to 25 incl. and 36.

Township 38, Range 27, W.P.M.

N.E.  $\frac{1}{4}$  Sec. 26.  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 32 incl., 34 and 36.

Township 39, Range 27, W.P.M.

All Sections 1 to 36 incl.

Township 35, Range 28, W.P.M.

All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.

Township 37, Range 28, W.P.M.

N.E.  $\frac{1}{4}$  Sec. 26,  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.

Township 38, Range 28, W.P.M.

E<sup>1</sup> and N.W.  $\frac{1}{4}$  Sec. 1,  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16 to 30 incl.

Township 39, Range 28, W.P.M.

All Sections 1 to 36 incl.

Township 35, Range 29, W.P.M.

All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.

Township 36, Range 29, W.P.M.

E<sup>1</sup>, N.W.  $\frac{1}{4}$  and N<sup>1</sup> of S.W.  $\frac{1}{4}$  Sec. 4, N.E.  $\frac{1}{4}$  Sec. 26,  
All Sections 2, 6, 10 to 12 incl., 14, 16, 18, 20, 22, 24,  
28 to 30 incl., 32, 34 and 36.

Township 37, Range 29, W.P.M.

S.W.  $\frac{1}{4}$  Sec. 8, N.E.  $\frac{1}{4}$  Sec. 26,  
All Sections 1 to 7 incl., 9 to 25 incl., 27 to 36 incl.

Township 38, Range 29, W.P.M.

All Sections 1 to 36 incl.

Sun Oil Company,  
Drawer 38,  
Calgary.

11/1/54

Reservation of Oil Shale Rights No. 6

In consideration of and subject to the provided, conditions and restrictions, hereinafter contained, permission is hereby granted to:

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
41 and 42	25
40, 41, 42, 43 and 44	26
40 and 44	27
40	28

all West of the principal meridian, and containing an area of 196,000 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 1926 of the said regulation is made, the examination shall be restricted to surface geology.

Dated at Winnipeg this  
30th day of July, 1964.

*J. J. [Signature]*  
.....  
Director, of Mines

tion to, 6

Area 11, Range 25, N.P.M.

All Sections 4 to 7 incl., 9, 16 to 21 incl., and 23 to 33 incl.

Township 42, Range 25, N.P.M.

E<sup>1</sup> Sec. 8,

All Sections 4 to 7 incl., 9, 16 to 21 incl., and 23 to 33 incl.

Township 40, Range 26, N.P.M.

All Sections 3 to 10 incl., 15 to 22 incl., 27 to 35 incl.

Township 41, Range 26, N.P.M.

All Sections 1 to 36 incl.

Township 42, Range 26, N.P.M.

N.E.<sup>1</sup> Sec. 26,

All Sections 1 to 25 incl., and 27 to 36 incl.

Township 43, Range 26, N.P.M.

N.E.<sup>1</sup> Sec. 26,

All Sections 1 to 25 incl., and 27 to 36 incl.

Township 44, Range 26, N.P.M.

All Sections 1 to 7 incl., and 9 to 36 incl.

Township 40, Range 27, N.P.M.

All Sections 1 to 36 incl.

Township 41, Range 27, N.P.M.

N.E.<sup>1</sup> Sec. 26,

All Sections 1 to 25 incl., and 27 to 36 incl.

Area 10, Range 27, N.P.M.

All Sections 1 to 36 incl.

Reservation of Oil State Lands No. 7

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

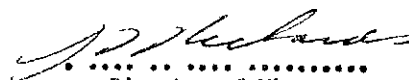
its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
42 and 43	27
42, 43 and 44	28
42, 43 and 44	29

all West of the Principal Meridian, and containing an area of 183,682.60 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 mining claims, and any amendments thereto. Until the cash deposit required under section 2 of section 1926 of the said regulation is made, the examination shall be restricted to surface geology.

Dated at Winnipeg this  
30th day of July, 1964.

  
.....  
Director of Mines



Section 7

Township 12, Range 27, T. 12. N. R. 27. W.

All sections 1 to 36 incl.

Township 13, Range 27, T. 13. N. R. 27. W.

All Sections 1 to 36 incl.

Township 13, Range 2, T. 13. N. R. 2. W.

All sections 1 to 36 incl.

Township 13, Range 27, T. 13. N. R. 27. W.

All sections 1 to 36 incl.

Township 14, Range 27, T. 14. N. R. 27. W.

1 and 2 sec. 27.

All sections 1 to 25 incl., and 27 to 36 incl.

Township 13, Range 27, T. 13. N. R. 27. W.

All sections 1 to 36 incl.

Township 13, Range 27, T. 13. N. R. 27. W.

All sections 1 to 36 incl.

Township 14, Range 27, T. 14. N. R. 27. W.

1 and 2 sec. 27.

All sections 1 to 25 incl., and 27 to 36 incl.

14.4.42  
28.38.38  
17.10.17

*Handwritten note:*  
17.10.17

Reservation of Oil State Rights No. 8

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to:

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
41	27
41	28
39, 40, 41	29

all west of the Principal Meridian, and containing an area of 115,200 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  
30th day of July, 1964.

*J. J. Richards*  
.....  
Director of Mines

Section 10, 8

Township 11, Range 27, T.P.M.

All Sections Nos. 1 to 36.

Township 11, Range 28, W.P.M.

All Sections Nos. 1 to 36.

Township 29, Range 29, T.P.M.

All Sections Nos. 1 to 36.

Township 10, Range 29, T.P.M.

All Sections Nos. 1 to 36.

Township 11, Range 29, W.P.M.

All Sections Nos. 1 to 36.

RESERVATION OF OIL CLAIM RIGHTS, No. 10

In consideration of and subject to the provisos, conditions and restrictions hereinafter contained, permission is hereby granted to: Sun Oil Company, Calgary,

c/o Montreal Trust Company,  
Notre Dame at Albert Street,  
Winnipeg, Manitoba.

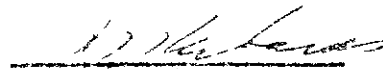
its successors and assigns, to carry on geological and geo-physical examinations or both, including investigations relating to subsurface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
23	20
23	21
23, 24, 25, 26	22
23, 24, 25, 26	23
24, 25, 26	24
25	25

all West of the Principal Meridian, containing 109,268.82 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 1920 of the said regulation is made, the examination shall be restricted to surface geology.

Dated at Winnipeg this  
23rd day of October, 1964.

  
Director of Mines

Range 20 N.P.

Pt. 1<sup>st</sup> Sec. 7, Pt. 1<sup>st</sup> Sec. 8, Pt. 1<sup>st</sup> Sec. 15, Pt. Sec. 16 Pt. Sec. 17, All Secs. 18, 19, 20, 21, 22, Pt. Sec. 23, 1<sup>st</sup> Sec. 25, Pt. 1<sup>st</sup> Sec. 26, 1<sup>st</sup> Sec. 28, All Secs. 27, 28, 29, 30, 31, 32, 33, 34, 35 and 36.

Township 23, Range 21 N.P.M.

1<sup>st</sup> Sec. 1, All Secs. 12, 13, 24, N.E. 1/4 Sec. 25, N.E. 1/4 Sec. 26, All Secs. 27, 28, 29, 30, 32, 34 and 36.

Township 23, Range 22 N.P.

N.E. 1/4 Sec. 20, All Secs. 21, 29, 30, 32, 34 and 36.

Township 24, Range 22 N.P.

1<sup>st</sup> W. Sec. 1, 1/2 of S. 1/4 Sec. 1, W. 1/2 and S.E. 1/4 Sec. 2, All Sec. 4, 1<sup>st</sup> and S. 1/4 Sec. 6, S. 1/4 Sec. 9, All Secs. 10 and 11, 1<sup>st</sup> and S. 1/4 Sec. 12, 1<sup>st</sup> Sec. 13, All Sec. 14, 1<sup>st</sup> and S. 1/4 Sec. 16, All Sec. 18, 1<sup>st</sup> and S. 1/4 Sec. 20, S. 1/4 Sec. 21, All Secs. 22, 24, W. 1/2 Sec. 25, 1<sup>st</sup> Sec. 26, S.E. 1/4 Sec. 27 and S. 1/4 Sec. 27, All Secs. 28, 29, 30, 1<sup>st</sup> and S.W. Sec. 32, 1<sup>st</sup> Sec. 33, All Sec. 34, S. 1/4 Sec. 35 and All Sec. 36.

Township 25, Range 22 N.P.

All Sec. 2, 1<sup>st</sup> and S.E. 1/4 Sec. 4, All Secs. 6, 10, 11, W. 1/2 Sec. 12, All Secs. 14, 16, 1<sup>st</sup> Sec. 17, All Secs. 20, 22, 24, S.E. 1/4 Sec. 25, All Secs. 28, 29, 30, 32, 34 and S. 1/4 Sec. 36.

Township 26, Range 22 N.P.

All Secs. 4, 6, 16, 18, 20, 27, 29, 1<sup>st</sup> Sec. 30, and All Sec. 32.

Township 27, Range 23 N.P.M.

All Secs. 25 and 36.

Township 24, Range 23 N.P.

All Sec. 2, 1/2 Sec. 4, 1/4 and N.E. 1/4 Sec. 6, All Secs. 11, 11, 12, 14, 16, 17, 20, 21, 24, S. 1/4 Sec. 25, All Secs. 28, 29, 30, L. 1/4 D. 1 of Sec. 31, All Secs. 32, 34 and 36.

Township 25, Range 23 N.P.

All Secs. 2, 4, 6, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 29, 30, 32, 34 and 36.

Township 27, Range 23 N.P.

All Secs. 2, 4, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 29, 30, 32, 34 and 36.

Township 24, Range 24 N.P.

All Secs. 11, 22, 1<sup>st</sup> and S. 1/4 Sec. 24, 1<sup>st</sup> Sec. 26, All Secs. 34 and 36.

Township 25, Range 24 N.P.

All Secs. 2, 4, 6, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 29, 30, 32, 34 and 36.

10

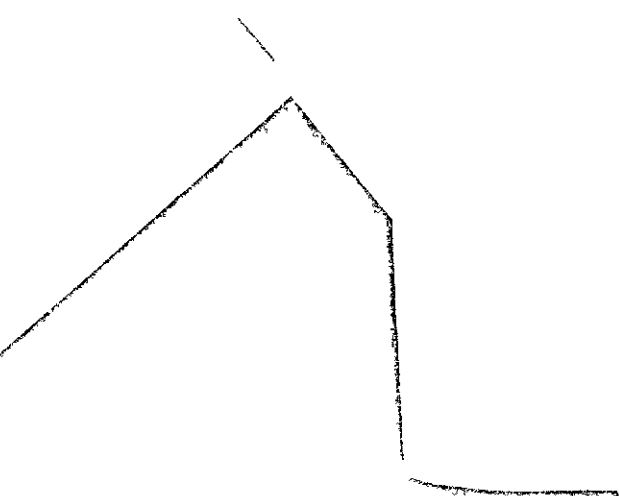
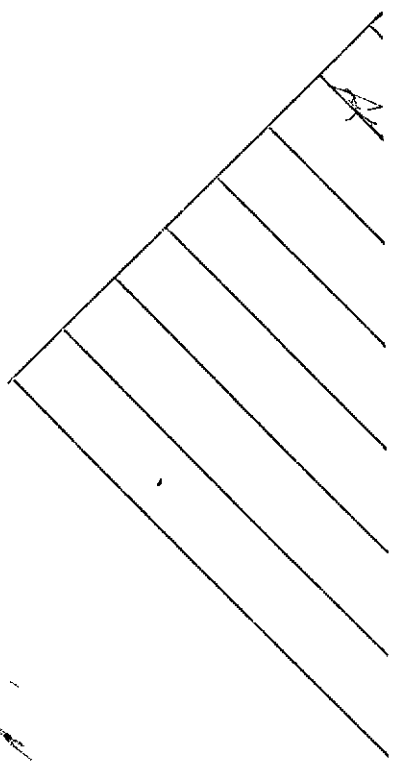
Section 25, Range 24, T. 1, R. 1.

All Secs. 2, 11, 17, 14, 24, 25, 26, All Secs. 35 and 36.

Section 25, Range 25, T. 1, R. 1.

Sec. 1, All Secs. 2, 11, 12, 14, 24, and 36.

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FINAL ROAD LINK TO MCMURRAY TO BE OPENED JULY 1

The last gap in ground connection to the McMurray tar sands development area will be closed July 1 when the highway bridge across the Athabasca River will be opened officially and turned over to the province of Alberta. W. Harold Rea, board chairman of Great Canadian Oil Sands Limited, will deliver the bridge to Hon. Gordon Taylor, Alberta minister of highways. GCOS put up more than half the money on the huge quarter-mile span which cost \$3.3 million. It links Fort McMurray with a new road to the oil sands.

A parade through Fort McMurray will precede the noon-time ceremony. Afterwards the public will be invited to cross the "bridge to tomorrow's energy" and tour the GCOS extraction and processing plant site 20 miles north. Just a year ago Alberta premier Ernest C. Manning set a plaque marking the start of construction on the \$210 million project, scheduled for completion September 1967.

As a memento of the occasion, GCOS will present to the provincial government a scale model of the bridge. The first car to cross will burst through a ribbon six feet high. Past and present will be represented in a modest tableau at the start of the ceremony.

Completion of the bridge is a significant stage in the scheduled progression of work on the large integrated project. The highway will be used for transportation of equipment and supplies for the later stages of construction, including the northern part of the pipeline from the plant site to Edmonton.

GCOS is currently winding up the details of distribution of its new partially convertible debenture issue sold for \$12.5 million to 125,000 Alberta residents. It is the only company with a provincial permit for commercial production from the tar sands. On completion the facilities will produce 45,000 b/d of synthetic crude, plus byproduct coke and sulphur. Most of the oil will be sold to parent Sun Oil Company Limited for its Sarnia refinery and to this company's parent Sun Oil Company for its Toledo refinery.

OIL-SALE PERMITS ISSUED

PERMITS SURRENDERED

- PS.28 Montreal Trust Company - 94,800 acres. Effective June 4, 1965.
- PS.29 - Montreal Trust Company - 99,200 acres. Effective June 4, 1965.
- PS.30 - Montreal Trust Company - 99,401 acres. Effective June 4, 1965.
- PS.31 - Montreal Trust Company - 99,994 acres. Effective June 4, 1965.
- PS.32 - Montreal Trust Company - 97,760 acres. Effective June 4, 1965.
- PS.33 - Montreal Trust Company - 95,680 acres. Effective June 4, 1965.
- PS.34 - Montreal Trust Company - 96,320 acres. Effective June 4, 1965.
- PS.35 - Montreal Trust Company - 69,120 acres. Effective June 7, 1965.
- PS.36 - Montreal Trust Company - 74,880 acres. Effective June 7, 1965.
- PS.37 - Montreal Trust Company - 92,160 acres. Effective June 7, 1965.
- PS.38 - Montreal Trust Company - 86,400 acres. Effective June 7, 1965.
- PS.39 - Montreal Trust Company - 92,160 acres. Effective June 7, 1965.

1,097,875 acs

June 11 '65  
Jen



PROVINCE OF MANITOBA

**FILE BACK COVER No.**

FROM

*Oil Shale Reservations*

TO

*No 1, 2, 3, 4, 5, 6, 7, 8, 10*

SUBJECT --

*Sun Oil Co.*

*Oil Shale Reservations*

*General Concessions*

**FILE BACK COVER NO.**

FROM

*Oil / State Reservations*

TO

*No. 1, 2, 3, 4, 5, 6, 7, 8, 10*

SUBJECT --

*Sun Oil Co*

*Oil State Reservations*

*General Correspondence*

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO. [redacted]  
LEASE LEDGER  
Dec 1924-25

Account Book of [redacted]  
the mineral lease of [redacted]  
between the [redacted] and [redacted] 6/2/29

DATE OF ENTRY 19	PERIOD OF LEASE		DESCRIPTION	RENTAL	FILE NUMBER	DEBIT	CREDIT	BALANCE
	FROM	TO						
January 30 1925			Fixed [redacted] [redacted]		10157			
			21 22		21			
			23 24		23			
			25 26		25			
			27		27			
			28		28			
			29		29			
			30		30			
			31		31			
			1925		1925			
			1926		1926			
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			2024		2024			
			2025		2025			

DEPARTMENT OF MINES AND NATURAL RESOURCES  
 ACCOUNTS BRANCH

LEASE NO.

*Out Pledge No 2*  
 LEASE LEDGER

*Acme Coal Company, Calgary*

*Ac 1929 A B C*

DATE OF ENTRY	PERIOD OF LEASE	DESCRIPTION	RENTAL	DEBIT	CREDIT	BALANCE	FILE NUMBER
July 31, 1946		Balance forward					6 29257
	7-31-53	30-31-53					
	8-31-53	31-31-53					
		1947-4-30 06 AM					
July 31, 1946		Report on Disposal of Assets		200	7500	7300	
Aug 31, 1946		Disposal of Assets			7500	0	
Sept 30, 1946		Disposal of Assets			7500	7500	
		Disposal of Assets			7500	0	
		Disposal of Assets			7500	7500	
		Disposal of Assets			7500	0	

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO  
*C. J. Shale No. 3*  
LEASE LEDGER

*Asst. Mgr. Company*

*DIC 192 1100*

DATE OF ENTRY	PERIOD OF LEASE		DESCRIPTION	RENTAL		DEBIT	CREDIT	BALANCE
	FROM	TO						
July 30, 1964			<p><i>Shannon</i></p> <p><i>31. 20' 36</i></p> <p><i>32 to 36</i></p> <p><i>31 00' 36</i></p> <p><i>36</i></p>					
					192, 795 76			
July 31, 1964			<i>Exp. 21 Dec</i>			7500		7500
Dec 14, 1964			<i>Approved by Dept</i>					
			<i>placed by 50</i>					
			<i>removed and returned to</i>					
			<i>Bonds returned by Treasury</i>					



DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO  
*Dist. No. 5-*  
LEASE LEDGER

*Acme Coal Company - Calgary*

P

DATE OF ENTRY 19	PERIOD OF LEASE		DESCRIPTION	RENTAL	DEBIT	CREDIT	BALANCE
	FROM	TO					
<i>July 26</i>			<i>RE 1st</i>				
<i>1964</i>			<i>RE 2d</i>				
			<i>RE 3d</i>				
			<i>RE 4th</i>				
			<i>RE 5th</i>	<i>197 307 15</i>			
			<i>RE 6th</i>				
			<i>RE 7th</i>				
			<i>RE 8th</i>				
			<i>RE 9th</i>				
			<i>RE 10th</i>				
			<i>RE 11th</i>				
			<i>RE 12th</i>				
			<i>RE 13th</i>				
			<i>RE 14th</i>				
			<i>RE 15th</i>				
			<i>RE 16th</i>				
			<i>RE 17th</i>				
			<i>RE 18th</i>				
			<i>RE 19th</i>				
			<i>RE 20th</i>				
			<i>RE 21st</i>				
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62961

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DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO. *62962*  
LEASE LEDGER

*Sum Ltd Company - Calgary*

R

DATE ISSUED	PERIOD OF LEASE	DESCRIPTION	RENTAL	RENTAL	DEBIT	CREDIT	BALANCE	FILE NUMBER
July 30 1962		<i>Sum Ltd</i>						<i>62962</i>
		<i>41 x 42</i>	<i>20</i>					
		<i>42 x 42</i>	<i>21</i>					
		<i>42 x 42</i>	<i>22</i>					
		<i>42 x 42</i>	<i>23</i>					
		<i>42 x 42</i>	<i>24</i>					
		<i>42 x 42</i>	<i>25</i>					
		<i>42 x 42</i>	<i>26</i>					
		<i>42 x 42</i>	<i>27</i>					
		<i>42 x 42</i>	<i>28</i>					
		<i>42 x 42</i>	<i>29</i>					
		<i>42 x 42</i>	<i>30</i>					
		<i>42 x 42</i>	<i>31</i>					
		<i>42 x 42</i>	<i>32</i>					
		<i>42 x 42</i>	<i>33</i>					
		<i>42 x 42</i>	<i>34</i>					
		<i>42 x 42</i>	<i>35</i>					
		<i>42 x 42</i>	<i>36</i>					
		<i>42 x 42</i>	<i>37</i>					
		<i>42 x 42</i>	<i>38</i>					
		<i>42 x 42</i>	<i>39</i>					
		<i>42 x 42</i>	<i>40</i>					
		<i>42 x 42</i>	<i>41</i>					
		<i>42 x 42</i>	<i>42</i>					
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		<i>42 x 42</i>	<i>47</i>					
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		<i>42 x 42</i>	<i>49</i>					
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DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO  
*62963*  
LEASE LEDGER

*Amor Del Company, Chicago, Ill.*



DATE OF ENTRY	PERIOD OF LEASE		DESCRIPTION	RENTAL	FILE NUMBER	DEBIT	CREDIT	BALANCE
	FROM	TO						
July 31 1962			<i>See Receipts Range 27</i>		<i>62963</i>			
Aug 1 1962			<i>27</i>					
Aug 31 1962			<i>28</i>					
Sept 30 1962			<i>29</i>	<i>103,621.66</i>				
July 31 62			<i>Capital</i>			<i>230</i>	<i>230</i>	<i>75000</i>
Aug 1 62			<i>Report prepared Chicago T 2815</i>					
Aug 31 62			<i>Placed by Dept of the Interior</i>					
			<i>Returned to Am. Del. Co. by memo 2/20/1966</i>					
			<i>Resubmission</i>					
			<i>Bonds returned by Treasury</i>					

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

LEASE NO. *W. 2000 No. 1*  
LEASE LEDGER

*Amundson Company - Calgary*

R

DATE OF ENTRY	PERIOD OF LEASE		DESCRIPTION	RENTAL	RENTAL	FILE NUMBER	JOURNAL OR C B FOLIO		DEBIT	CREDIT	BALANCE
	DATE ISSUED	FROM					TO	V			
<i>July 20 1965</i>	<i>July 20 1965</i>		<i>Range</i>	<i>27</i>		<i>62962</i>			<i>3750</i>		
<i>July 20 1965</i>			<i>Range</i>	<i>27</i>							
<i>July 20 1965</i>			<i>Range</i>	<i>27</i>							
<i>July 20 1965</i>			<i>Range</i>	<i>29</i>							
				<i>115,000 0000</i>							

*Amundson Co. Calgary*

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ACCOUNTS BRANCH

*Tom's Old Company - Calgary*

*Dist No 10*  
LEASE NO

LEASE LEDGER

DATE ISSUED	PERIOD OF LEASE	DESCRIPTION	RENTAL	FILE NUMBER	RENTAL		DEBIT	CREDIT	BALANCE
					FROM	TO			
<i>Dec 31 64</i>		<i>Tom's Old Company</i>		<i>63-20</i>					
<i>Jan 1 65</i>		<i>195-1368</i>							
<i>Feb 1 65</i>		<i>23-195-1368</i>							
<i>Mar 1 65</i>		<i>23-195-1368</i>							
<i>Apr 1 65</i>		<i>23-195-1368</i>							
<i>May 1 65</i>		<i>23-195-1368</i>							
<i>Jun 1 65</i>		<i>23-195-1368</i>							
<i>Jul 1 65</i>		<i>23-195-1368</i>							
<i>Aug 1 65</i>		<i>23-195-1368</i>							
<i>Sep 1 65</i>		<i>23-195-1368</i>							
<i>Oct 1 65</i>		<i>23-195-1368</i>							
<i>Nov 1 65</i>		<i>23-195-1368</i>							
<i>Dec 1 65</i>		<i>23-195-1368</i>							
<i>Jan 1 66</i>		<i>23-195-1368</i>							
<i>Feb 1 66</i>		<i>23-195-1368</i>							
<i>Mar 1 66</i>		<i>23-195-1368</i>							
<i>Apr 1 66</i>		<i>23-195-1368</i>							
<i>May 1 66</i>		<i>23-195-1368</i>							
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<i>Sep 1 66</i>		<i>23-195-1368</i>							
<i>Oct 1 66</i>		<i>23-195-1368</i>							
<i>Nov 1 66</i>		<i>23-195-1368</i>							
<i>Dec 1 66</i>		<i>23-195-1368</i>							

*See 192 A (2)*

*T4 558 on 30 Nov 1966*

*Consolidated*

*Preservation equipment*

*Deposit returned*

*Checkbook*

*230 Oct 1966*

September 30, 1966.

J. S. Richards,  
Director of Mines.

Mr. W. Winston Mair,  
Deputy Minister.

Sun Oil Company -

Oil Shale Reservations.

Sun Oil was the holder of 9 oil shale reservations (exploration permits) which required the expenditure of \$61,500 on exploration and/or experimental and research work.

The company posted Canada Bonds with a face value of \$60,000 and \$4,500 in cash as a guarantee that these expenditures would be made. The company has submitted Statutory Declarations and other evidence of expenditures on:

(a) exploration \$ 18,088

(b) analyses and research \$ 96,247

These figures include an 8% overhead charge.

The regulations governing the administration of oil shale reservations require the approval of the Minister in respect of experimental and research costs. The information submitted substantiates that at least \$53,781 has been spent on research and experimental work related to the Manitoba reservation and it is recommended that this amount be approved.

If this recommendation is approved, it is requested that the Minister, or you, sign the duplicate of this memo and return it to this office. This will provide us with the authorization necessary to return the company deposits.

JSR/or

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

J. S. Richards.

DEPARTMENT OF MINES  
AND NATURAL RESOURCES

OCT 3 - 1966

SISTANI P. M. I. E.  
OF. E.

# COPY

August 3, 1966.

Mr. R. D. Jones,  
Sun Oil Company,  
Production Department,  
Petro-Chemical Building,  
805 - 8th Avenue, W.,  
Calgary, Alta.

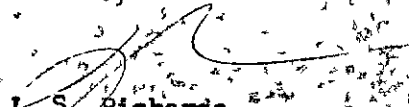
Dear Mr. Jones:

This will acknowledge receipt of your letter of July 27th, advising that Sun Oil Company will not request renewal of Oil Shale Permits 1 to 8, inclusive, which terminated July 30, 1966.

A more formal surrender is not required.

It is noted that the information, relative to expenditures, requested earlier, will be forwarded in the very near future.

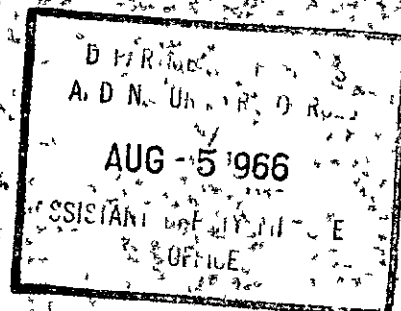
Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR/or

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

Mr. T. Morgan,  
Chief Mining Recorder.



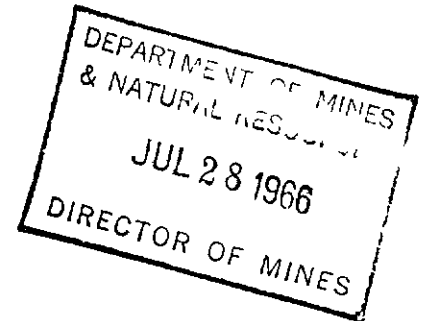


GEORGE E. DUNLAP  
Manager Canadian Production Division  
LLOYD E. MILLER  
Assistant Division Manager

PRODUCTION DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 805 8th Avenue W • Drawer 38 Calgary Alberta Canada

July 27, 1966

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



Attention Mr. J. S. Richards

Dear Sirs

Re Manitoba Oil Shale Permits 1-8 incl ,  
dated July 30, 1964

Our records indicate that the above-noted Permits will complete their present term on July 30, 1966. We have therefore reviewed our Oil Shale acreage commitments in detail and have decided not to request the renewal of these Permits. We do not propose to convert any of the Permit areas to lease. We trust you will advise in the event a more formal surrender form is required.

Information requested in your letter dated June 30, 1966 is being obtained and will be forwarded to you in the very near future.

Yours very truly,

SUN OIL COMPANY

R. D. Jones

RDJ sm

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

# COPY

June 30, 1966.

Mr. R. D. Jones,  
Production Department,  
Sun Oil Company,  
Petro-Chemical Building,  
805 - 8 Av., W.,  
Drawer 38,  
Calgary,  
Alberta.

Dear Mr. Jones:

This will acknowledge your letter of June 22nd, and the attached "Report of Research on Saskatchewan and Manitoba Oil Shales"; together with a Statement of Expenditures verified by Geib, Valestuk Loepky & Co.

This statement supplies no breakdown of the items which comprise the total of \$60,951.90. It would be appreciated if you would supply the individual expenditures incurred in respect to the following:

- a) analysis of oil obtained by retorting shales
- b) analysis of gas obtained by retorting shales
- c) analysis of spent shale for fixed carbon heating value
- d) development of assaying techniques
- e) development of batch retorts for producing large samples of oil
- f) development of retorting process for production of synthetic fuels from oil shale
- g) purchase of equipment.

Yours very truly,

J. S. Richards,  
Director of Mines.

DEPARTMENT OF  
INDUSTRIAL DEVELOPMENT  
AND TRADE  
JUL - 5 1966  
ASSISTANT DEPUTY MINISTER  
OFFICE  
ISR:db

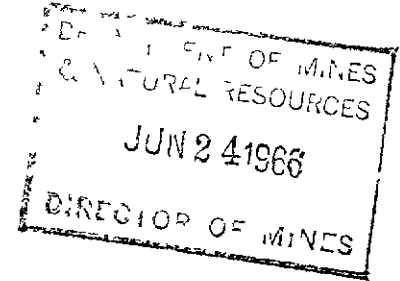
c. c. to: Mr. M. J. Gobert, Assistant Deputy Minister.



GEORGE E. DUNLAP  
Manager Canadian Production Division  
LLOYD E. MILLER  
Assistant Division Manager

PRODUCTION DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 805 8th Avenue W • Drawer 38 Calgary Alberta Canada

June 22, 1966



Department of Mines and Natural Resources,  
Mines Branch,  
904 Norquay Building,  
401 York Avenue,  
WINNIPEG 1, Manitoba.

Attention Mr. J. S. Richards

Dear Sirs

Re Manitoba Oil Shale Permits 1-8 incl.  
dated July 30, 1964 and  
Manitoba Oil Shale Permit 10 dated  
October 23, 1964

Further to your letter dated March 9, 1966, we enclose an up-to-date report on our research activities relative to both Manitoba and Saskatchewan Oil Shales as prepared by our Research Laboratory at Richardson, Texas, U.S.A. This work was commenced last year and is still being actively pursued. Expenses relating to this and other work for the period up to June 1, 1965 have been previously forwarded by virtue of the statement included in our letter dated January 5, 1966.

We now enclose a Statement of Expenditure verified by the firm of Geib, Valestuk & Co, Chartered Accountants, in support of expenditures incurred by Sun Oil Company on the above-noted Reservations for the period June 1, 1965 to February 28, 1966. In preparing this statement we have followed the same procedure as that followed in the preparation of the previous statement in that the total amount of expenses allocated to our Manitoba holdings represents only that proportion (44.29%) of actual total expenditures that our Manitoba Oil Shale acreage bears to our total Canadian Oil Shale holdings.

Pursuant to Section 192(c), we have deposited Government of Canada 4½% Bond Nos. T29C 50749/50 Inc. and D 00433/34 Inc. Bearer due September 1, 1983 in the amount of \$60,000.00

In view of the expenditures incurred to date amounting to \$48,497.21 (period ending June 1, 1965), and \$65,838.05 (period June 1, 1965 to February 28, 1966), for a total expenditure of \$114,335.26, we respectfully request a



Att Mr. J S Richards

- 2 -

June 22, 1966

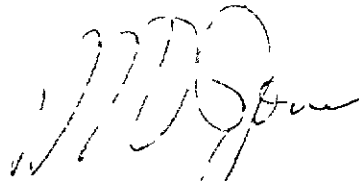
refund of our cash deposits pursuant to Section 192 I(2) of the Regulations. Since Section 192 I(3) requires that at least 30% of the cash deposit shall be retained until after the Reservation holder has submitted the record required to be submitted under Section 192 M, we suggest that the refund at this time should include Bonds equal in value to \$40,000.00.

We trust you will find our report of interest and our expenditure statement in good order. If so, we request that the Bonds to be refunded should be forwarded to

Royal Bank of Canada,  
740 - 8th Avenue S W ,  
Calgary, Alberta.

Yours very truly,

SUN OIL COMPANY



R. D. Jones

RDJ sm  
Encls.

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

COPY

March 9, 1966.

Mr. R. D. Jones,  
Production Department,  
Sun Oil Company,  
Petro-Chemical Building,  
805 - 8 Avenue, West,  
Drawer 38,  
Calgary,  
Alberta.


Dear Mr. Jones:

Many thanks for your letter of February 14th, relative to Oil Shale Reservations Nos. 1 to 8 and 10. We also regret any misunderstanding that has arisen in regard to your work commitments in respect to these reservations.

I do not have any further information to offer except the comment that our understanding was based on a Memorandum to File, written shortly after the discussions referred to in our correspondence.

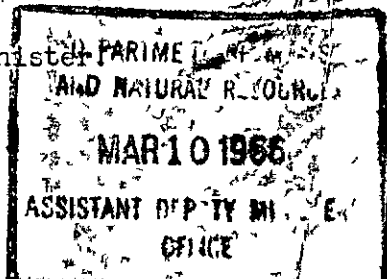
However, as you state, in view of the fact that your program is active, continuous, and systematic, the matter appears to be academic.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR:db

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



Oil shale



FEB 15 1966  
D REC U OF MINE

GEORGE E. DUNLAP  
Minister Canadian Production  
ROYD E. MILLER  
Assistant Production Manager

PRODUCT OIL DEPARTMENT SUN OIL COMPANY Petro Chemical Building 805 8th Avenue W. Drawer 38 Calgary Alberta Canada

February 14, 1966

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

ATTENTION Mr. J.S. Richards

Dear Sir

Re Manitoba Oil Shale Reserves  
Nos. 1-8 inclusive and No. 10

We acknowledge your letter dated January 26th, the contents of which have been discussed at length with our Mr. E.E. Gilbert. In reply, we respectfully submit the following comments to the understandings expressed in your letter -

1. "The deposits would be retained until the end of the second year".

It is Mr. Gilbert's understanding that deposits would be retained until the end of the second year subject to the right to request their return upon providing satisfactory evidence that work was performed. This understanding was confirmed by the fact that we recently forwarded evidence of expenditures for your approval. However, regardless of the understanding reached, we are agreeable to leave the deposits on file with your department and postpone our request for reimbursement until the end of the second year

2. "If Sun performed no work during the second year of the Reservations, the Crown would retain the entire work deposit "

We could not determine any basis for this understanding. We agree the deposits would be forfeited if no work was performed "by" the end of the second year. (Including both first and second years).

DIAM  
A. D. N. U. W.  
FEB 18 1966  
SUN OIL COMPANY

.....2

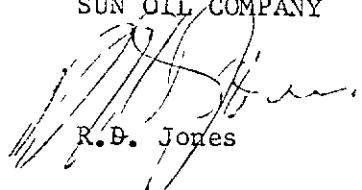
February 14, 1966

However, this point is probably academic in that Sun is currently spending during the second year very substantial amounts by way of research utilizing previous information acquired in the reservation areas. It has been our intention to submit these further expenditures for your approval at the end of the second year anniversary date.

We naturally regret any misunderstandings that may have arisen in this regard and we would appreciate any further information you have which would assist us in clarifying these various matters. Our concern in resolving these misunderstandings is perhaps magnified by our company's exploration program, which we feel has been active, continuous, and systematic and involved very substantial expenditures.

Yours very truly,

SUN OIL COMPANY



R.D. Jones

RDJ/cei

cc to Mr. E E Gilbert

p. c. to: Mr. M. J. Gobert,  
Assistant Deputy Minister. (2 ).

COPY

January 26, 1966.

Mr. R. D. Jones,  
 Production Department,  
 Sun Oil Company,  
 Petro-Chemical Building,  
 805 - 8 Av., W.,  
 Drawer 38,  
 Calgary,  
 Alberta.

Dear Mr. Jones:

This will acknowledge receipt of your letter of January 5, together with the Statement of Expenditures, verified by Geib, Valstuk & Co., Chartered Accountants.

It is noted that you intend to apply for a refund of cash deposits, in accordance with Section 192 I (2) of the Regulations. Our understanding of the discussion, which we held with Mr. E.E. Gilbert, was that the deposit would be retained until the end of the second year of the term of the reservations. Also that, in the event that during the second year of the permits Sun Oil did no work in respect to the permit areas, the Crown would retain the entire work deposit posted. In other words, that work done during the first year would not be credited for a refund of part of the deposit at the end of the second year.

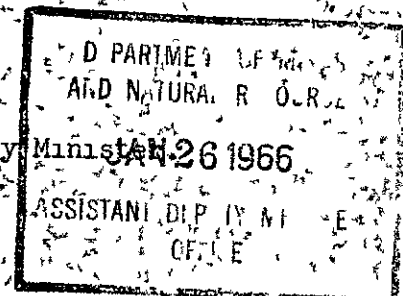
Yours very truly,

J. C. Richards,  
 Director of Mines.

JSR:db

c. c. to: Mr. Stuart Anderson,  
 Deputy Minister.

Mr. M. J. Gobert, Assistant Deputy Minister



IN - DEPARTMENTAL MEMORANDUM

FROM J. S. Richards,  
Director of Mines.



PROVINCE  
OF  
MANITOBA

DATE January 24, 1966.

TO Mr. M. J. Gobert,  
Assistant Deputy Minister.

SUBJECT Sun Oil Company -

Oil Shale Reservations.

Attached, hereto, copy of a letter from Mr. R. D. Jones, together with a copy of the "Statement of Expenditures Incurred", referred to therein.

The expenditures as such appear reasonable, including the method of allocating research expenses, namely, "that portion which our Manitoba ..... acreage bears to our total Canadian ..... holdings .....".

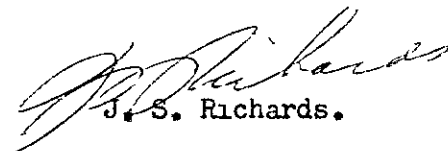
You will note, in the last paragraph, that it is the company's intention to apply for a refund under Section 192I (2). This suggestion, as you are aware, is not in accord with our understanding of the points of agreement reached in discussions with Mr. E. E. Gilbert.

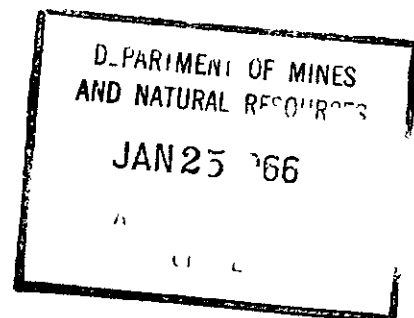
In my memo to file, dated August 25, 1965, (under 3.), I stated that Mr. Gilbert agreed that, if no work was done during the second year, "it would be equitable for the Crown to retain the entire work deposit posted by Sun Oil.". I believe you agree with this statement.

Kindly advise if I shall write to Sun Oil, advising them accordingly.

JSR.db

Encs.

  
J. S. Richards.





GEORGE E. DUNLAP  
 Manager Canadian Production Division  
 LLOYD E. MILLER  
 Assistant Division Manager

PRODUCTION DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 805 8th Avenue W • Drawer 38 Calgary Alberta Canada

January 5, 1966.

Department of Mines and Natural Resources,  
 Mines Branch,  
 904 Norquay Building,  
 401 York Ave.,  
 Winnipeg 1, Manitoba.

DEPARTMENT OF  
 MINES & NATURAL RESOURCES  
 JAN 5 - 1966  
 DIRECTOR

ATTENTION Mr. J.S. Richards.

Dear Sir

RE Manitoba Oil Shale Permits 1-8 Inclusive,  
 dated July 30, 1964.  
 Manitoba Oil Shale Permit #10, dated October  
 23, 1964.

In accordance with Section 192 I of the Oil Shale Reservation Regulations, we enclose a Statement of Expenditures verified by the firm, Geib, Valestuk & Co., Chartered Accountants, relating to expenses incurred by Sun Oil Company on the above noted Reservations for the period ending June 1, 1965. Detailed progress reports pursuant to Section 192 I (1) have been forwarded previously.

As a word of explanation, we wish to point out that total expenditures involved in research amounted to much more than reported in this Statement. The amount reported here is that portion which our Manitoba Oil Shale acreage bears to our total Canadian Oil Shale holdings and to which our research program was related. We trust you will find this method of allocating expenditures satisfactory.

In the event the enclosed expenditures, in the amount of \$48,497.21, meets with your approval it will be our intention to apply for a refund of cash deposits under Section 192 I (2).

Kindly advise if further information is required.

p. c. to: Mr. M. J. Gobert,  
 Assistant Deputy Minister;  
 with Statement of Expenditures Incurred.

Yours very truly,  
 SUN OIL COMPANY,

*[Signature]*  
 R. D. Jones.

RDJ/cbm,  
 Enclosures.

DEPARTMENT OF  
 MINES AND NATURAL RESOURCES  
 JAN 25 1966  
 ASSISTANT DEPUTY MINISTER  
 OFFICE

DECLARATION

TO - DEPARTMENT OF MINES AND NATURAL RESOURCES  
PROVINCE OF MANITOBA  
MINES BRANCH

IN THE MATTER OF Crown Reservation of Oil Shale Rights  
#1 to #8 inclusive and Reservation of Oil Shale Rights #10.

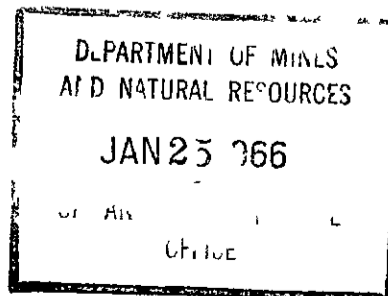
TO WIT, I, Otto Joseph Geib, of the City of Calgary, in the  
Province of Alberta, a partner in the firm of Geib, Valestuk & Co.,  
Chartered Accountants, do solemnly declare:

1. THAT Expenditures incurred by Sun Oil Company in connection  
with Reservations of Oil Shale Rights #1 to #8 inclusive and  
#10, for the period ending June 1, 1965 are as shown on  
Exhibit "A" attached hereto.
2. AND 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 22<sup>nd</sup> day of December  
A.D. 1965.

Otto Joseph Geib  
Otto Joseph Geib

[Signature]  
A Notary Public in and for the  
Province of Alberta





Statement of Expenditures Incurred  
by Sun Oil Company  
On Manitoba Reservation of Oil Shale Rights  
Numbers 1 to 8 Inclusive and #10  
To June 1, 1965

Field Party Expenses (Party No. 12)	\$ 1,983.00
Incurred to gather oil shale samples along outcrop on Manitoba escarpment for analysis and to establish regional trends of oil shale occurrences.	
Second Core Hole Program	11,228.35
To establish regional trends of oil shale values along edge of outcrop after failure of field-parties.	
Outside Consultant Report	3,462.00
To obtain preliminary evaluation of the economic potential of Manitoba oil shales and advise as to recommended exploration program.	
Sun Oil Company Research Expenses on Oil Shale Technology	28,156.48
Incurred by Sun Oil Company's research laboratory in the United States.	
Audit Fees	<u>75.00</u>
	\$ 44,904.83
Sun Oil Company administrative overhead of 8% added to above expenditures.	<u>3,592.38</u>
	<u>\$ 48,497.21</u>

Note

~~This is the Exhibit "A" referred to in the declaration of Mr. Otto-Joseph Geib dated \_\_\_\_\_ A.D. 1965~~

*This is Exhibit "A" referred to in the  
Affidavit of Donald R. [unclear]  
of C. G. Geib taken*

*before me this 27th day of  
November A.D. 1965*

*[Signature]*  
Notary Public  
State of Alberta



DEPARTMENT OF MINES AND NATURAL RESOURCES  
MINES BRANCH

RECORDING DIVISION  
904 NORQUAY BUILDING  
401 YORK AVENUE WINNIPEG 1

November 13, 1964

Sun Oil Company  
c/o Montreal Trust Company  
Notre Dame at Albert Street  
Winnipeg, Manitoba

Gentlemen:

Attached Reservation of Oil Shale Rights No. 10 issued in the name of Sun Oil Company, Calgary dated October 23, 1964.

Also enclosed Official Receipt No. G 11106 in the amount of \$250.00 covering application fee and G 11107 in the amount of \$4,500.00 covering cash deposit on Oil Shale Reservation No. 10. These Receipts are issued in the name of Montreal Trust Company.

Yours truly,

A handwritten signature in cursive script, appearing to read 'T. Morgan', with a horizontal line underneath.

T. Morgan  
Chief Mining Recorder

TM/ar  
Encs.(3)

cc: Dr. J. F. Davies  
Chief Geologist

Reservation of Oil Shale Rights No. 1

In consideration of and subject to the provisos, conditions and restriction, hereinafter contained, permission is hereby granted to

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba

its successors, and assigns, to carry on geological and geophysical examinations or both, including investigations relating to subsurface geology on the following lands, namely

<u>Lot or Strip</u>	<u>Range</u>
21	15
21 and 22	16
23 and 24	17
23 and 24	18
23 and 24	19
24	20
24, 25, 26, 27 and 28	21
26, 27, 28, 29 and 30	22

all West of the Principal Meridian,  
containing #197,630.12 acres, more or less See attached list.

This reservation is subject in all respects to "The Lands Act" and Part X of Manitoba Regulation 29/50 covering the disposal of boring claims, and any amendments thereto

Dated at Winnipeg this

Director of Mines

Reservation 6.1

Township 24, Range 21, W.P.M.

S.W.  $\frac{1}{4}$  Sec. 7, E  $\frac{1}{2}$  and N.E.  $\frac{1}{4}$  Sec. 18, N  $\frac{1}{2}$  Sec. 26, E  $\frac{1}{2}$  and N.W.  $\frac{1}{4}$  Sec. 31.  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 20, 22, 24, 28 to 30 incl., 32, 34 and 36.

Township 25, Range 21, W.P.M.

S  $\frac{1}{4}$  Sec. 6, N.W.  $\frac{1}{4}$  Sec. 18.  
All Sections 2, 4, 10 to 12 incl., 14, 16, 20, 22, 24, 28 to 30 incl., 32 and 34.

Township 26, Range 21, W.P.M.

N.E.  $\frac{1}{4}$  Sec. 13, S.W.  $\frac{1}{4}$  Sec. 15, E  $\frac{1}{2}$  and N.W.  $\frac{1}{4}$  Sec. 21,  
N.E.  $\frac{1}{4}$  Sec. 20, N.W.  $\frac{1}{4}$  Sec. 27, S.W.  $\frac{1}{4}$  Sec. 33, W  $\frac{1}{2}$  and N.E.  $\frac{1}{4}$  Sec. 35.  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22, 24, 28 to 30 incl., 32, 34 and 36.

Township 27, Range 21, W.P.M.

N.W.  $\frac{1}{4}$  Sec. 9, N  $\frac{1}{2}$  Sec. 10, N  $\frac{1}{2}$  Sec. 11, N  $\frac{1}{2}$  Sec. 12, E  $\frac{1}{2}$  Sec. 15,  
E  $\frac{1}{2}$  and N.W.  $\frac{1}{4}$  Sec. 25, N.E.  $\frac{1}{4}$  Sec. 26, N  $\frac{1}{2}$  Sec. 27,  
N.W.  $\frac{1}{4}$  Sec. 33, N  $\frac{1}{2}$  Sec. 35.  
All Sections 14, 16, 18, 20, 22 to 24 incl., 28 to 30 incl., 32, 34 and 36.

Township 28, Range 21, W.P.M.

N  $\frac{1}{2}$  Sec. 17, E  $\frac{1}{2}$  Sec. 21, W  $\frac{1}{2}$  and S.W.  $\frac{1}{4}$  Sec. 33.  
All Sections 4, 6, 9, 16, 18 to 20 incl., 28 to 32 incl.

Township 26, Range 22, W.P.M.

W  $\frac{1}{2}$  and N.F. Sec. 10, N.E.  $\frac{1}{4}$  Sec. 26.  
All Sections 2, 11, 12, 14, 22, 24, 34 and 36.

Township 27, Range 22, W.P.M.

N  $\frac{1}{2}$  Sec. 10, N  $\frac{1}{2}$  Sec. 11, N  $\frac{1}{2}$  Sec. 12, N.E.  $\frac{1}{4}$  Sec. 26.  
All Sections 14, 22, 24, 25, 34 and 36.

Township 28, Range 22, W.P.M.

N  $\frac{1}{2}$  Sec. 26.  
All Sections 1, 2, 4, 6 to 8 incl., 10 to 12 incl., 14 to 20 incl., 22 to 24 incl., Sec. 27 to 34 and 36.

Township 29, Range 22, W.P.M.

E  $\frac{1}{2}$  Sec. 9, W  $\frac{1}{2}$  and N.E.  $\frac{1}{4}$  Sec. 13, S.W.  $\frac{1}{4}$  Sec. 15, N.W.  $\frac{1}{4}$  Sec. 21,  
S  $\frac{1}{4}$  Sec. 25, N.E.  $\frac{1}{4}$  Sec. 26, W  $\frac{1}{2}$  Sec. 27, E  $\frac{1}{2}$  Sec. 33.  
All Sections 1 to 7 incl., 10 to 12 incl., 14, 16 to 20 incl., 22, 24, 28 to 32 incl., 34 and 36.

Township 30, Range 22, W.P.M.

All Sections 2, 11 to 14 incl., 23 to 25 incl., 35 and 36.

Prescription No. 1

Township 21, Range 15, T.P.M.

S.E. $\frac{1}{4}$  Sec. 7,  $\frac{1}{2}$  and S.W. $\frac{1}{4}$  Sec. 9, S.E. $\frac{1}{2}$  Sec. 17, S.E. $\frac{1}{4}$  Sec. 19,  
E. $\frac{1}{2}$  Sec. 21, S.W. $\frac{1}{4}$  Sec. 33.  
All sections 4 to 6 incl., 16, 18, 20, and 28 to 32 incl.

Township 21, Range 16, T.P.M.

N.E. $\frac{1}{4}$  Sec. 14, N.W. $\frac{1}{2}$  Sec. 13, E $\frac{1}{2}$  and S.W. $\frac{1}{4}$  Sec. 14,  
N.E. $\frac{1}{4}$  Sec. 27, N.W. $\frac{1}{4}$  Sec. 28, N.E. $\frac{1}{4}$  Sec. 31.  
All sections 1, 12, 22 to 25 incl., 27 and 32 to 36 incl.

Township 22, Range 16, T.P.M.

E $\frac{1}{2}$  and N.W. $\frac{1}{4}$  Sec. 3, N.E. $\frac{1}{4}$  Sec. 9, E $\frac{1}{2}$  and N.W. $\frac{1}{4}$  Sec. 13,  
E $\frac{1}{2}$  Sec. 19, N $\frac{1}{2}$  Sec. 25, N.E. $\frac{1}{4}$  Sec. 26,  
All Sections 1, 2, 4 to 7 incl., 10 to 12 incl., 14 to  
18 incl., 20 to 24 incl., and 27 to 36 incl.

Township 23, Range 17, W.P.M.

S.E. $\frac{1}{4}$ , N.W. $\frac{1}{4}$  and W $\frac{1}{2}$  of N.E. $\frac{1}{4}$  Sec. 1, E $\frac{1}{2}$  Sec. 3, S $\frac{1}{2}$  Sec. 9,  
S.W. $\frac{1}{4}$  Sec. 21, N.E. $\frac{1}{4}$  Sec. 26, N.E. $\frac{1}{4}$  Sec. 33.  
All Sections 2, 4, 6, 7, 10 to 14 incl., 16 to 20 incl.,  
22, 24, 28 to 32 incl., 34 and 36.

Township 24, Range 17, W.P.M.

E $\frac{1}{2}$  and N.E. $\frac{1}{4}$  Sec. 4, E $\frac{1}{2}$  Sec. 8.  
All Sections 5 to 7 incl., and 16 to 18 incl.

Township 23, Range 18, W.P.M.

N.E. $\frac{1}{4}$  Sec. 1, E $\frac{1}{2}$  and N.W. $\frac{1}{4}$  Sec. 12, E $\frac{1}{2}$  and N.W. $\frac{1}{4}$  Sec. 13,  
N.W. $\frac{1}{4}$  Sec. 26, N.W. $\frac{1}{4}$  Sec. 27.  
All Sections 22 to 24 incl., 28, 32, 34 and 36.

Township 24, Range 18, W.P.M.

E $\frac{1}{2}$  Sec. 4, W $\frac{1}{2}$  Sec. 6.  
All Sections 7, 10 to 12 incl., 14, 16 and 18.

Township 22, Range 19, W.P.M.

All Sections 31, 32, 34 and 36.

Township 24, Range 19, W.P.M.

S $\frac{1}{2}$  and N.W. $\frac{1}{4}$  Sec. 2, N.W. $\frac{1}{4}$  Sec. 9, E $\frac{1}{2}$  and S.W. $\frac{1}{4}$  Sec. 14,  
E $\frac{1}{2}$  and N.W. $\frac{1}{4}$  Sec. 18.  
All Sections 4, 6, 10, 11 and 16.

Township 24, Range 20, W.P.M.

S.W. $\frac{1}{4}$  Sec. 13, E $\frac{1}{2}$  and N.E. $\frac{1}{4}$  Sec. 18, N $\frac{1}{2}$  Sec. 21, N.E. $\frac{1}{4}$  Sec. 25,  
N.E. $\frac{1}{4}$  Sec. 26, E $\frac{1}{2}$  Sec. 27, E $\frac{1}{2}$  Sec. 33, E $\frac{1}{2}$  and N.W. $\frac{1}{4}$  Sec. 34,  
W $\frac{1}{2}$  and N.E. $\frac{1}{4}$  Sec. 36.  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 20, 27, 24,  
28 to 30 incl., and 32.

Reservation of Oil Shale Rights No. 1

In consideration of and subject to the provisos, conditions and restrictions hereinafter contained, permission is hereby granted to:

Sur Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology, on the following lands, namely

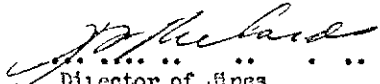
<u>To Township</u>	<u>Range</u>
21	15
21 and 22	16
23 and 24	17
23 and 24	18
23 and 24	19
24	20
24, 25, 26, 27 and 28	21
26, 27, 28, 29 and 30	22

all West of the Principal Meridian, containing 197,030.12 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 mining 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

30th day of July, 1964.

  
Director of Mines



REC'D  
 JUN 29 1965  
 DIRECTOR OF MINES

GEORGE E. DUNLAP  
 Manager Canadian Production Division  
 LLOYD E. MILLER  
 Assistant Division Manager

PRODUCTION DEPARTMENT SUN OIL COMPANY Petro Chemical Building 805 8th Avenue W. Drawer 38 Calgary Alberta Canada

June 25, 1965

*See all date file*

Mr J S Richards,  
 Department of Mines and Natural Resources,  
 901 Norquay Building - 401 York Avenue,  
 WANNIPEG 1, Manitoba

Dear Sir

*also file*

I am enclosing herewith three copies showing all of the analyses we have received to date for our Manitoba core holes. These are analyses for core holes No 13, No 16C, No 17, No 19A, No 20 and No 21 and you will note that some sheets which are enclosed herewith show more than one well. These same sheets also show our outcrop samples with those having a prefix "L" having been taken by our geologist whose name was Linckers. Some of the samples enclosed herewith were prepared and analyzed by the Chemical and Geological Laboratory here in Calgary. These are for hole No 13, No 20 and No 21 and this analysis is dated May 25th. We consider this to be a fairly correct analysis, however, you will note that we have also enclosed analyses for the same holes from the same people dated April 13th. It was this first set of analyses that made us feel that there may be an error and as a result we took one of our Saskatchewan cores where half of the core had already been analyzed by the Chemical and Geological Lab and sent the balance of the core to Colorado for comparative analysis. As a result we came to the conclusion that the Chemical and Geological analysis was too low and they have rechecked their procedure and recalibrated their process and have given us the May 25th analysis.

The core from core hole No 18 has been shipped to Golden, Colorado but we do not anticipate having the results for at least another two weeks. The core recovery on hole No 16A was very poor and it therefore has not been analyzed

Very truly yours,  
  
 E E Gilbert

EEG/gm  
 Encl

p. c. to: Mr. M. J. Gobert,  
 Assistant Deputy Minister.  
 Dr. J. F. Davies,  
 Chief Geologist.

June 25, 1965

Mr J R Richards

I am enclosing herewith two zerox copies of items which I feel may be of some interest to you. One of these mentions the opening of the bridge at Fort McMurray, the other describes the surrender of the Montreal Trust holdings in the oil shale area of Saskatchewan. These Montreal Trust lands, in my opinion, are lands which were taken on behalf of Imperial Oil. They lie to the north of Sun's Pasquia Hills area as well as to the west of Sun's Pasquia Hills and a third block lies to the south of Sun's Saskatchewan oil shale permits and to the west of Sun's Manitoba oil shale reservations.



E E Gilbert

EEG/gm  
Encl

**p. c. to: Mr. M. J. Gobert,**  
**Assistant Deputy Minister; -- with two enclosures.**

**Dr. J. F. Davies,**  
**Chief Geologist; -- with two enclosures.**



August 5, 1964.

Shell Canada Limited,  
P. O. Box 186,  
Edmonton, Alberta.

ATT: Mr. D.W. Walker

Re: Oil Shale Reservations -  
Manitoba.

Dear Sir:

Enclosed are copies of Reservations #1 to #8, Townships  
21 to 44, comprising some 1,476,532 acres, and a copy of the  
Regulations 42/64 under which the reservations were acquired.

Yours very truly,

F. S. Gamey,  
Reservoir Geologist.

FSG/lk

July 28, 1964.

J. S. Richards,  
Director of Mines.

COPY

Mr. Stuart Anderson,  
Deputy Minister.

Sun Oil Company -

Oil Shale Reservations.

Attached, hereto, the original and a copy of Sun Oil's application for eight reservations of oil shale rights. These are the same areas which were discussed with the company sometime ago.

As you are aware, Section 192A of the Regulations provides that the granting of all such reservations are "Subject to the approval of the minister, .....


If satisfactory, would you kindly have the approval indicated on the original application, and return it to this office.


Sun letter, outlining the proposed program, is also attached.

  
J. S. Richards.

JSR:db

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

 Mr. T. Morgan,  
Chief Mining Recorder.

 Dr. J. F. Davies,  
Chief Geologist.

"Approved by  
Hon. George Hutton  
Acting Minister of Mines and  
Natural Resources"

# Montreal Trust Company

EXECUTORS & TRUSTEES NOTRE DAME AT ALBERT STREET, WINNIPEG MAN • TELEPHONE WHItEhAlL 3-0451

July 27th, 1964.

Attention - Mr. Richards

Department of Mines and Natural Resources,  
Mines Branch,  
WINNIPEG,  
M a n i t o b a

Dear Sirs

On behalf of Sun Oil Company, Calgary, we now make application for exploration permits covering the following blocks of land set out in the attached list.

Attached you will also find a letter from Sun Oil Company describing the scope of the exploration and examination to be carried out and the estimated cost thereof. This is required under your regulations and we trust you will find it in order.

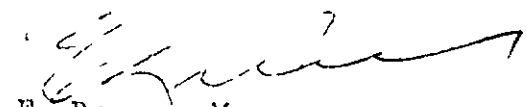
Application fees and deposits to be paid are estimated as follows.--

	<u>Statement of Fees</u>	
	<u>Application Fee</u>	<u>Deposit</u>
Reservation #1	\$250.00	\$7,500.00
#2	250.00	7,500.00
#3	250.00	7,500.00
#4	250.00	7,500.00
#5	250.00	7,500.00
#6	250.00	7,500.00
#7	250.00	7,500.00
#8	250.00	4,500.00
	<hr/>	<hr/>
	\$2,000.00	\$7,000.00
		2,000.00
		<hr/>
Total .....		\$59,000.00
		<hr/>

You already have our cheque for \$69,500.00 which was forwarded with our letter of June 1st, 1964. Thus, there would appear to be a refund due us for the credit of Sun Oil Company of \$10,500.00. We presume you will remit this to us at your convenience.

Yours truly,

MONTREAL TRUST COMPANY



V. E. Driver, Manager,  
Mortgage Department

VED/lr

Encl.

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

Mr. T. Morgan,  
Chief Mining Recorder;

~~Dr. J. F. Davies,~~  
Chief Geologist.

# SUN OIL COMPANY

CANADIAN PRODUCTION DIVISION

805 8TH AVE W  
PO DRAWER 38

**CALGARY, ALBERTA**

CANADA

17 July 1964

G E DUNLAP  
MANAGER

L E MILLER  
ASSISTANT MANAGER

M E AUSTIN  
SUPT OPERATING DEPT

Chief Mining Recorder,  
Department of Mines and Natural Resources,  
Mines Branch,  
WINNIPEG, Manitoba.

Dear Sir

Pursuant to Manitoba Regulation 42/64, you require data setting out the extent of the examination to be made and the estimated cost thereof

It is our present plan to perform surface field geology along the exposed outcrops of the Niobrara formation within the Province of Manitoba and upon our various oil shale reservations. In the course of our surface geological investigations, we will take samples of the outcropping formations and these samples will be analysed for oil content and other associated mineral content. These samples will be analysed in one of several laboratories, either Colorado School of Mines at Golden, Colorado, or our own Research Laboratory at Richardson, Texas, or in our newly built laboratory in Calgary, or perhaps at some as yet undetermined laboratory.

From the analyses we anticipate determining

- 1 Oil content in gallons per ton
- 2 The specific gravity of the oil
- 3 The amount of total water in gallons per ton

In addition, we will further analyse the oil shale to determine its other chemical properties

Following our initial analyses of the samples taken in the field, we will determine whether any area appears to contain oil shales approximating the oil content which we believe would be required in order to economically proceed towards potential plant construction. We will then proceed with more detailed geological field examination and with further sample recovery and analyses. This will cover more closely

located outcrops within the same apparently desirable area and this work will undoubtedly include trenching of the outcrop face so that the surface samples may be obtained below the weathered surface

If these more detailed samples support the earlier studies and show that an area of apparently economic oil shales has been located, we will then quite possibly wish to do sub-surface examinations through core hole drilling to further delineate the extent of the apparently economic oil shales. We anticipate that the cost of a surface geological field party, consisting of two men, will be approximately \$4,000 per month. In addition, our present arrangement with the Colorado School of Mines is that we will pay \$1.00 per sample for sample preparation and \$4.00 per sample for the Fischer Analysis. These prices are in U.S. dollars. In addition, we will have some costs attributable to our further analyses in our Richardson and Calgary laboratories. We do not know yet what these costs will be, however, one test which will be made on selected samples is X-Ray analysis and I understand this costs approximately \$30.00 per sample. It is impossible at this point to determine how many samples will be analysed and what our costs will be for this analyses work. In actuality, it really depends upon what quality of oil shale we find in our initial field geological work.

The problems associated with our oil shale exploration are entirely new and we just cannot say for sure what our full program will eventually entail. At present we have a geologist by the name of William Linckens, who is a consultant, and his assistant William Goodman, working along the Niobrara outcrops in the Province of Manitoba. These men are working under the supervision of our Chief Geologist, Mr. H. Westmore, who is a Professional Engineer for the Province of Manitoba.

It is impossible for me at this time to estimate what our total exploration expenditures on these permits will be. We do realize of course that we have placed deposits and at present I anticipate that our expenditures may approximate those deposits. This is such a new problem as compared to the conventional oil business that we just cannot firmly say what our costs will be.

I trust that this report will be sufficient for the formal application for these oil shale permits which have been applied for by the Montreal Trust Company for the Sun Oil Company.

Yours very truly



E. E. Gilbert

EEGss

p. c. to. Mr. Stuart Anderson, Deputy Minister.  
Mr. M. J. Gobert, Assistant Deputy Minister.  
Orig. to: Mr. T. Morgan, Chief Mining Recorder.  
p. c. to. Dr. J. F. Davies, Chief Geologist.

# SUN OIL COMPANY

CANADIAN PRODUCTION DIVISION

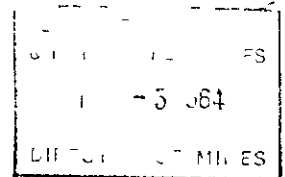
G E DUNLAP  
MANAGER

805 8TH AVE W  
P O DRAWER 38  
CALGARY, ALBERTA  
CANADA

4 November 1964

L E MILLER  
ASSISTANT MANAGER  
M E AUSTIN  
BUYER OF CRUDE OIL

Department of Mines and Natural Resources,  
Mines Branch Director's Office,  
901 Norquay Building - 401 York Avenue,  
WINNIPEG 1, Manitoba



Attention Mr J S Richards

Dear Sir

The Royal Bank of Canada, Main Branch Calgary Alberta is forwarding Dominion of Canada Government Bonds to the value of \$57 000 for deposit with your department with regard to our oil shale reservations numbered 1 to 8 inclusive. In addition the same bank is forwarding similar bonds to the value of \$3, 000 for deposit with your department to replace a cash drilling deposit which has previously been placed with your department.

When the bonds have been received, will you please return our cash deposits to my attention.

Thanking you, I remain,

Yours very truly

E E Gilbert

EEGss

November 13, 1964.

Chief Planning Recorder

Departmental Accountant

Attention: Mr. F. V. Stewart

Sun Oil Company

I would advise you that Oil Shale Reservations were issued to the above Company on July 30, 1964, and cash in the amount of \$57,000.00 deposited as a performance bond.

On November 12, 1964, The Royal Bank of Canada forwarded \$60,000.00 Government of Canada Bonds 4 1/2% due September 1, 1963, T 29 C 0749/50 inc., D 00433/54 inc., with March 1965 sca. I telephoned James Richardson today, and they quoted the selling price of these bonds at 93.00, so the cash value of these bonds today would be \$55,800.00

Interest payable March 31, 1965 will be \$1,300.00, being the value of the deposit to \$57,100.00. The deposit is not callable after this date.

Please advise Treasury not to clip the coupons without our approval.

*Handwritten notes:*  
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T/ed

T. Morgan.



November 18, 1964

Mr. J. Edgar Hoover  
Director  
Federal Bureau of Investigation  
Washington, D.C.

Dear Mr. Hoover:

Your letter of November 11, addressed to the  
Director of the FBI and dated to this office for  
attention.

The Bureau has been advised by the  
Department of Justice that the FBI should  
be advised of the results of the FBI's  
investigation of the activities of the  
Organization of American Friends of  
Soviet Russia (OAFSR) and the  
National Student Reliance Fund (NSRF).  
The OAFSR is a non-profit organization  
which was organized in 1945 and has  
approximately 17,000 members in the  
United States.

The NSRF is a non-profit organization  
which was organized in 1945 and has  
approximately 17,000 members in the  
United States.

Yours truly,

W. J. Brennan  
Chief Clerk, Recorder

WJ  
C.C.C. [unclear]



GEORGE E. DUNLAP  
Manager Canadian Production Division  
LLOYD F. MILLER  
Assistant Division Manager

PRODUCTION DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 805 8th Avenue W • Drawer 38 Calgary Alberta Canada

March 10, 1965

Department of Mines & Natural Resources  
Mines Branch  
Recording Division  
904 Norquay Building  
401 York Avenue  
Winnipeg 1, Manitoba

Attention Mr. T. Morgan

Dear Sir

On November 9, 1964, the Royal Bank of Canada forwarded \$60,000 Canada Conversion 4 ½% Bearer Bonds to your department to replace our cash deposits held by you as follows

Oil Shale Reservations Nos. 1 to 8	\$57,000
Drilling License No. 2019	3,000

To date we have been refunded the \$57,000 cash deposit on the Oil Shale Reservations but have not received the \$3,000 being held as a Drilling deposit.

Would you kindly look into this matter and refund the \$3,000 as soon as possible.

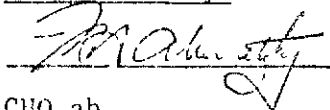
As the interest coupons on the \$60,000 bonds became payable March 1, 1965, we would appreciate it if you would clip these coupons and forward them to the following bank for deposit to our regular account.

The Royal Bank of Canada  
740 - 8th Avenue S.W.  
CALGARY, Alberta

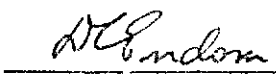
Please double register the transmission of these coupons and kindly charge us for any costs that you may have incurred in this connection.

Please use this letter as your standing authority to clip all subsequent coupons as they fall due and forward them to the address mentioned above.

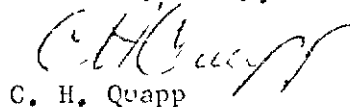
Authorized by



CHQ ah



Yours very truly,

  
C. H. Quapp

COPY

21, 1935.  
W. J. Smith,  
Assistant Secretary.

Sun Oil Company -

Oil Shale Reservations.

attached, hereto, copy of a letter from Mr. F. D. Jones, together with a copy of the "Statement of Expenses Incurred", referred to herein.

The expenses are such as are reasonable, including the method of allocating expenses, namely, "that portion of the total Canadian ..... average to our total Canadian ..... holdings ....."

You will note, in the last paragraph, that it is the company's intention to apply for a refund under Section 1721 (2). This suggestion, as you are aware, is in accord with our understanding of the points of agreement reached in discussions with Mr. W. L. Gilbert.

In my memo to file, dated August 25, 1935, (under 3.), I stated that Mr. Gilbert agreed that, if no work was done during the second year, "it would be equitable for the Crown to retain the entire 10% deposit posted by Sun Oil." I believe you agree with this statement.

Kindly advise if I shall write to Sun Oil, advising them accordingly.

J. S. Richards.

JSR:ab

Encs.

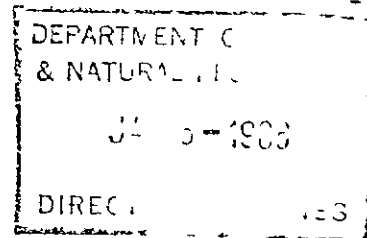
c. c. to Mr. T. Morgan,  
Chief Mining Recorder.

GEORGE E DUNLAP  
Manager Canadian Production Division  
LLOYD E MILLER  
Assistant Division Manager

PRODUCTION DEPARTMENT **SUN OIL COMPANY** Petro Chemical Building 805 8th Avenue W Drawer 38 Calgary Alberta Canada

January 5, 1966.

Department of Mines and Natural Resources,  
Mines Branch,  
904 Norquay Building,  
401 York Ave.,  
Winnipeg 1, Manitoba.



ATTENTION Mr J.S Richards.

Dear Sir

RE Manitoba Oil Shale Permits 1-8 Inclusive,  
dated July 30, 1964.  
Manitoba Oil Shale Permit #10, dated October  
23, 1964

In accordance with Section 192 I of the Oil Shale Reservation Regulations, we enclose a Statement of Expenditures verified by the firm, Gelb, Valestak & Co, Chartered Accountants, relating to expenses incurred by Sun Oil Company on the above noted Reservations for the period ending June 1, 1965. Detailed progress reports pursuant to Section 192 I (1) have been forwarded previously.

As a word of explanation, we wish to point out that total expenditures involved in research amounted to much more than reported in this Statement. The amount reported here is that portion which our Manitoba Oil Shale acreage bears to our total Canadian Oil Shale holdings and to which our research program was related. We trust you will find this method of allocating expenditures satisfactory.

In the event the enclosed expenditures, in the amount of \$48,497 21, meets with your approval it will be our intention to apply for a refund of cash deposits under Section 192 I (2).

Kindly advise if further information is required.

P. c. to: Mr. M. J. Cobert,  
Assistant Deputy Minister;  
with Statement of Expenditures Incurred.  
→ Mr. T. Morgan, Chief Mining Recorder.

Yours very truly,  
SUN OIL COMPANY,

  
R. D. Jones.

RDJ/cbm,  
Enclosures

D E C L A R A T I O N  
TO - DEPARTMENT OF MINES AND NATURAL RESOURCES  
PROVINCE OF MANITOBA  
MINES BRANCH


IN THE MATTER OF Crown Reservation of Oil Shale Rights  
# 1 to # 8 inclusive and Reservation of Oil Shale Rights # 10

TO WIT, I, Otto Joseph Geib, of the City of Calgary, in the  
Province of Alberta, a partner in the firm of Geib, Velestuk Loeppky & Co ,  
Chartered Accountants, do solemnly declare

1. THAT Expenditures incurred by Sun Oil Company in connection  
with Reservations of Oil Shale Rights #1 to #8 inclusive and  
#10, for the period from June 1, 1965 to February 28, 1966  
are as shown on Exhibit "A" attached hereto
  
- 2 AND 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 15<sup>th</sup> day of June  
A D 1965

Otto Joseph Geib

  
A Notary Public in and for the  
Province of Alberta

Statement of Expenditures Incurred  
by Sun Oil Company  
On Manitoba Reservation of Oil Shale Rights  
Numbers 1 to 8 Inclusive and #10  
From June 1, 1965 to February 28, 1966

Sun Oil Company Research Expenses on Oil Shale Technology Incurred by Sun Oil Company's research laboratory in the United States	\$ 60,951 90
Audit Fees	<u>10 00</u>
	\$ 60,961 90
Sun Oil Company administrative overhead of 8% added to above expenditures	<u>4,876 15</u> \$ 65,838 05

*116 June 1966*  
*15 1*  
*June 15 1966*  
*116 June 1966*

DECLARATION

TO - DEPARTMENT OF MINES AND NATURAL RESOURCES  
PROVINCE OF MANITOBA  
MINES BRANCH

IN THE MATTER OF Crown Reservation of Oil Shale Rights  
#1 to #8 inclusive and Reservation of Oil Shale Rights #10.

TO WIT, I, Otto Joseph Geib, of the City of Calgary, in the  
Province of Alberta, a partner in the firm of Geib, Valestuk & Co.,  
Chartered Accountants, do solemnly declare

1. THAT Expenditures incurred by Sun Oil Company in connection  
with Reservations of Oil Shale Rights #1 to #8 inclusive and  
#10, for the period ending June 1, 1965 are as shown on  
Exhibit "A" attached hereto

2. AND 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 11<sup>th</sup> day of November  
A.D. 1965

Otto Joseph Geib  
Otto Joseph Geib

[Signature]  
A Notary Public in and for the  
Province of Alberta

Statement of Expenditures Incurred  
 by Sun Oil Company  
 On Manitoba Reservation of Oil Shale Rights  
 Numbers 1 to 8 Inclusive and #10  
To June 1, 1965

Field Party Expenses (Party No. 12)	\$ 1,983.00
Incurred to gather oil shale samples along outcrop on Manitoba escarpment for analysis and to establish regional trends of oil shale occurrences.	
Second Core Hole Program	11,228.35
To establish regional trends of oil shale values along edge of outcrop after failure of field parties.	
Outside Consultant Report	3,462.00
To obtain preliminary evaluation of the economic potential of Manitoba oil shales and advise as to recommended exploration program.	
Sun Oil Company Research Expenses on Oil Shale Technology	28,156.48
Incurred by Sun Oil Company's research laboratory in the United States.	
Audit Fees	<u>75 00</u>
Sun Oil Company administrative overhead of 8% added to above expenditures.	\$ 44,904.83 <u>3,592.38</u> \$ <u>48,497 21</u>

Note

This is the Exhibit "A" referred to in the declaration of Mr. Otto Joseph Geib dated \_\_\_\_\_ A.D. 1965

*This is a true and correct copy of the original as taken from the original taken*  
*Attest: \_\_\_\_\_*  
*of \_\_\_\_\_ taken*  
*Before me this \_\_\_\_\_ day of*  
December 1965  
*\_\_\_\_\_*  
 A Commissioner of the State of Minnesota  
 No. 1 Notary Public



DECLARATION

TO - DEPARTMENT OF MINES AND NATURAL RESOURCES  
PROVINCE OF MANITOBA  
MINES BRANCH

IN THE MATTER OF Crown Reservation of Oil Shale Rights  
#1 to #8 inclusive and Reservation of Oil Shale Rights #10.

TO WIT, I, Otto Joseph Geib, of the City of Calgary, in the  
Province of Alberta, a partner in the firm of Geib, Valestuk & Co.,  
Chartered Accountants, do solemnly declare:

1. THAT Expenditures incurred by Sun Oil Company in connection  
with Reservations of Oil Shale Rights #1 to #8 inclusive and  
#10, for the period ending June 1, 1965 are as shown on  
Exhibit "A" attached hereto.

2. AND 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 17 day of September  
A.D 1965.

Otto Joseph Geib  
Otto Joseph Geib

[Signature]  
A Notary Public in and for the  
Province of Alberta

Statement of Expenditures Incurred  
 by Sun Oil Company  
 On Manitoba Reservation of Oil Shale Rights  
 Numbers 1 to 8 Inclusive and #10  
To June 1, 1965

Field Party Expenses (Party No 12)	\$ 1,983.00
Incurred to gather oil shale samples along outcrop on Manitoba escarpment for analysis and to establish regional trends of oil shale occurrences.	
Second Core Hole Program	11,228.35
To establish regional trends of oil shale values along edge of outcrop after failure of field parties.	
Outside Consultant Report	3,462.00
To obtain preliminary evaluation of the economic potential of Manitoba oil shales and advise as to recommended exploration program	
Sun Oil Company Research Expenses on Oil Shale Technology	28,156.48
Incurred by Sun Oil Company's research laboratory in the United States.	
Audit Fees	75.00
	\$ 44,904.83
Sun Oil Company administrative overhead of 8% added to above expenditures.	3,592.38
	<u>\$ 48,497.21</u>

Note

This is the Exhibit "A" referred to in the declaration of Mr Otto Joseph Geop dated \_\_\_\_\_ A.D. 1965

This is a true and correct copy of the

Account Book of \_\_\_\_\_

of \_\_\_\_\_ taken

Before me this \_\_\_\_\_ day of

December 1, 1965

*[Handwritten signature]*  
 Notary Public for Ontario in & of the  
 the 1<sup>st</sup> of December 1965

SUN OIL Co.  
DRAWN  
CALG.

Winnipeg

Reservation of Oil Shale Rights No. 2

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely

<u>Township</u>	<u>Range</u>
30, 31, 32 and 33	22
30, 31, 32 and 33	23
30 and 31	24

all West of the Principal Meridian and containing an area of 194,432.06 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 1920 of the said regulation is made, the examination shall be restricted to surface geology

Dated at Winnipeg this

30th day of July, 1964.

*J. P. Richards*  
Director of Mines

Reservation No. 2

Township 30, Range 22, W.P.M.

N. 1/2 Sec 15, 1/2 and 1/4 Sec. 21, & Sec. 33.  
All Sections 4 to 7 incl., 9, 10, 16 to 20 incl., 22,  
27 to 32 incl., and 34.

Township 31, Range 22, W.P.M.

N. 1/2 Sec. 26.  
All Sections 1 to 7 incl., 9 to 25 incl., and 27 to 36 incl.

Township 32, Range 22, W.P.M.

All Sections 4 to 7 incl., 9, 16 to 21 incl., and 28  
to 33 incl.

Township 33, Range 22, W.P.M.

All Sections 4 to 7 incl., 9, 16 to 21 incl., and 28  
to 33 incl.

Township 30, Range 23, W.P.M.

All Sections 1 to 36 incl.

Township 31, Range 23, W.P.M.

All Sections 1 to 36 incl.

Township 32, Range 23, W.P.M.

N. 1/2 Sec 26  
All Sections 1 to 25 incl., and 27 to 36 incl.

Township 33, Range 23, W.P.M.

N. 1/2 Sec. 26.  
All Sections 1 to 25 incl., and 27 to 36 incl.

Township 30, Range 24, W.P.M.

All Sections 1 to 36 incl.

Township 31, Range 24, W.P.M.

All Sections 1 to 36 incl.

Sun Oil Company  
Calgary, Alberta  
38

Reservation of Oil Shale Rights No. 3

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
34, 35 and 36	23
32, 33, 34, 35 and 36	24
34, 35 and 36	25
36	26

all West of the Principal Meridian, and containing an area of 192,795.70 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 1920 of the said regulation is made, the examination shall be restricted to surface geology.

Dated at Winnipeg this  
30th day of July, 1964.

*J. Richards*  
.....  
Director of Mines

Reservation No. 3

Township 24, Range 23, W.P.M.

N.E. 1/4 Sec. 26  
All Sections 1 to 7, 9 to 25 incl., and 27 to 36 incl.

Township 25, Range 23, W.P.M.

All Sections 4 to 7 incl., 9, 16 to 21 incl., and 28 to 33 incl.

Township 26, Range 23, W.P.M.

All Sections 4 to 9 incl., and 16 to 18 incl.

Township 27, Range 24, W.P.M.

All Sections 1 to 36 incl.

Township 28, Range 24, W.P.M.

All Sections 1 to 36 incl.

Township 29, Range 24, W.P.M.

All Sections 1 to 36 incl.

Township 30, Range 24, W.P.M.

All Sections 1 to 36 incl.

Township 31, Range 24, W.P.M.

All Sections 1 to 7 incl., and 9 to 13 incl.

Township 32, Range 25, W.P.M.

All Sections 1 to 36 incl.

Township 33, Range 25, W.P.M.

All Sections 1 to 4 incl., 6, 10 to 16 incl., 18, 20, 22 to 30 incl., 32, and 34 to 36 incl.

Township 34, Range 25, W.P.M.

All Sections 2, 4, 6, 10 to 12 incl., 14, 16 and 18.

Township 35, Range 26, W.P.M.

N.E. 1/4 Sec. 25.  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16 and 18.

Sun Oil Company  
Dept. 67  
Calgary, Alberta

Reservation of Oil Shale Plots No. 4

In consideration of and subject to the provisos,  
conditions and restrictions, hereinafter contained, permission is  
hereby granted to

Sun Oil Company, Calgary,

c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical  
examinations or both, including investigations relating to sub-  
surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
32 and 33	25
33, 34 and 35	26
33, 34 and 35	27
33 and 34	28
34	29

all West of the Principal Meridian, and containing an area of  
199,247.15 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 case deposited hereunder under section  
2 of Sect. 1920 of the said regulation is made, the examination  
shall be restricted to surface geology

Dated at Winnipeg this  
30th day of July, 1964.

*J. J. ...*  
.....  
Director of Mines

*Winnipeg*

Section No. 4

Township 32, Range 25, W.P.M.

All Sections 1 to 36 incl.

Township 33, Range 25, W.P.M.

All Sections 1 to 36 incl.

Township 33, Range 26, W.P.M.

All Sections 1 to 36 incl.

Township 34, Range 26, W.P.M.

All Sections 1 to 36 incl.

Township 35, Range 26, W.P.M.

W $\frac{1}{2}$  and N.E. $\frac{1}{4}$  Sec. 5,  
All Section 1 to 4 incl., 6, 10 to 12 incl., 14, 16, 18,  
20, 22, 24, 28 to 30 incl., 32, 34 and 36.

Township 33, Range 27, W.P.M.

All Sections 1 to 36 incl.

Township 34, Range 27, W.P.M.

S $\frac{1}{2}$  Sec. 21, N.E. $\frac{1}{4}$  Sec. 26, E $\frac{1}{2}$  Sec. 27, S.E. $\frac{1}{4}$  Sec. 35,  
All Sections 1 to 7 incl., 9 to 14 incl., 16, 18, 20, 22,  
24, 28, 29, 30 incl., 32, 34 and 36.

Township 35, Range 27, W.P.M.

All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.

Township 33, Range 28, W.P.M.

E $\frac{1}{2}$  Sec. 25, N.E. $\frac{1}{4}$  Sec. 26, W $\frac{1}{2}$  Sec. 27,  
All Sections 1 to 6 incl., 9 to 18 incl., 20, 22 to 24 incl.  
28 to 30 incl., 32 and 34 to 36 incl.

Township 34, Range 28, W.P.M.

N.E. $\frac{1}{4}$  Sec. 26,  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.

Township 34, Range 29, W.P.M.

N.E. $\frac{1}{4}$  Sec. 26,  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.



Sun Oil Company  
Calgary, Alberta

Reservation of Oil Shale Rights No. 5

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to:

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors, and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
39 and 40	26
38 and 39	27
35, 37, 38 and 39	28
35, 36, 37 and 38	29

all west of the Principal Meridian, and containing an area of 197,377.15 acres, more or less. See attached list.

This reservation is subject in all respects to

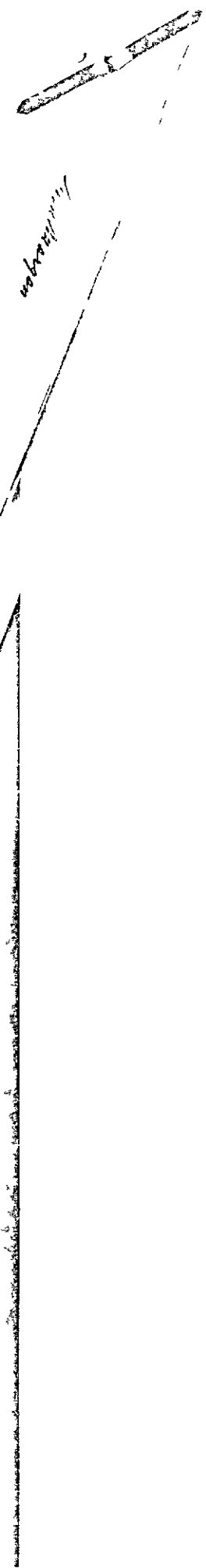
"The Mines Act" and Part X of Manitoba Regulation 29/50 govern-

ing the disposal of boring claims, and any amendments thereto. Until the cash deposit required under subsection 2 of section 1926 of the said regulation is made, no examination will be conducted to surface geology.

Dated at Winnipeg this

30th day of July, 1964.

*[Signature]*  
.....  
Director of Mines



5  
Township 39, Range 26, W.P.M.

N.E.  $\frac{1}{4}$  Sec. 26,  
All Sections 1 to 25 incl, and 27 to 36 incl.

Township 40, Range 26, W.P.M.

All Sections 1, 2, 11 to 14 incl., 23 to 25 incl. and 36.

Township 38, Range 27, W.P.M.

N.E.  $\frac{1}{4}$  Sec. 26.  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 32 incl., 34 and 36.

Township 39, Range 27, W.P.M.

All Sections 1 to 36 incl.

Township 35, Range 28, W.P.M.

All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl, 32, 34 and 36.

Township 37, Range 28, W.P.M.

N.E.  $\frac{1}{4}$  Sec. 26,  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.

Township 38, Range 28, W.P.M.

E<sup>1</sup> and N.W.  $\frac{1}{4}$  Sec. 1,  
All Sections 2, 4, 6, 10 to 12 incl., 14, 16 to 30 incl.

Township 39, Range 28, W.P.M.

All Sections 1 to 36 incl.

Township 35, Range 29, W.P.M.

All Sections 2, 4, 6, 10 to 12 incl., 14, 16, 18, 20, 22,  
24, 28 to 30 incl., 32, 34 and 36.

Township 36, Range 29, W.P.M.

E<sup>1</sup>, N.W.  $\frac{1}{4}$  and N<sup>1</sup> of S.W.  $\frac{1}{4}$  Sec. 4, N.E.  $\frac{1}{4}$  Sec. 26,  
All Sections 2, 6, 10 to 12 incl., 14, 16, 18, 20, 22, 24,  
28 to 30 incl., 32, 34 and 36.

Township 37, Range 29, W.P.M.

S.W.  $\frac{1}{4}$  Sec. 8, N.E.  $\frac{1}{4}$  Sec. 26,  
All Sections 1 to 7 incl., 9 to 25 incl., 27 to 36 incl.

Township 38, Range 29, W.P.M.

All Sections 1 to 36 incl.

Sun Oil Company,  
Calgary, Alberta.

W. H. H. H. H.

Reservation of Oil Shale Rights No. 6

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to:

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or test h, including investigations relating to sub-surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
41 and 42	25
40, 41, 42, 43 and 44	26
40 and 44	27
40	28

all West of the principal Meridian, and containing an area of 196,810 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 192 of the said regulation is made, the examination shall be restricted to surface geology.

Dated at Winnipeg this  
30th day of Jan., 1964.

*[Signature]*  
.....  
Director of Mines

Township 6

Township 41, Range 25, N.P.M.

All Sections 4 to 7 incl., 9, 16 to 21 incl., and 23 to 33 incl.

Township 42, Range 25, N.P.M.

E<sup>1</sup> Sec. 8,  
All Sections 4 to 7 incl., 9, 16 to 21 incl., and 23 to 33 incl.

Township 43, Range 26, N.P.M.

All Sections 3 to 10 incl., 15 to 22 incl., 27 to 35 incl.

Township 44, Range 26, N.P.M.

All Sections 1 to 36 incl.

Township 42, Range 26, N.P.M.

N.P. Sec. 26,  
All Sections 1 to 25 incl., and 27 to 36 incl.

Township 43, Range 26, N.P.M.

N.P. Sec. 26,  
All Sections 1 to 25 incl., and 27 to 36 incl.

Township 44, Range 26, N.P.M.

All Sections 1 to 7 incl., and 9 to 36 incl.

Township 40, Range 27, N.P.M.

All Sections 1 to 36 incl.

Township 44, Range 27, N.P.M.

N.P. Sec. 26,  
All Sections 1 to 25 incl., and 27 to 36 incl.

Township 40, Range 27, N.P.M.

All Sections 1 to 36 incl.

Reservation of Oil Shale Lands No. 7

In consideration of and subject to the provisions, conditions and restrictions, hereinafter contained, permission is hereby granted to

Sun Oil Company, Calgary,

c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely:

<u>Terms in</u>	<u>Range</u>
42 and 43	27
42, 43 and 44	28
42, 43 and 44	29

all West of the Principal meridian, and containing an area of 183,681.60 acres, more or less. See attached list.

This reservation is subject in all respects to


"The Miner Act" and Part X of Manitoba Regulation 29/50 governing

the disposal of mining 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

30th day of July, 1964.

  
.....  
Director of Mines

Section 1 to 7

Township 12, Range 27, T.12R.27E

All sections 1 to 36 incl.

Township 12, Range 27, T.12R.27E

All Sections 1 to 36 incl.

Township 12, Range 27, T.12R.27E

All sections 1 to 36 incl.

Township 12, Range 27, T.12R.27E

All sections 1 to 36 incl.

Township 11, Range 27, T.11R.27E

sec. 27.  
All sections 1 to 27 incl., and 29 to 36 incl.

Township 12, Range 27, T.12R.27E

All sections 1 to 36 incl.

Township 12, Range 27, T.12R.27E

All sections 1 to 36 incl.

Township 11, Range 27, T.11R.27E

sec. 6.  
All sections 1 to 27 incl., and 29 to 36 incl.

BY: [illegible]  
DATE: [illegible]  
BY: [illegible]

*unbr 1/11/11*

Reservation of Oil Shale Rights No. 8

In consideration of and subject to the provisos, conditions and restrictions, hereinafter contained, permission is hereby granted to:

Sun Oil Company, Calgary,  
c/o Montreal Trust Company,  
Notre Dame and Albert Street,  
Winnipeg, Manitoba.

its successors and assigns, to carry on geological and geophysical examinations or both, including investigations relating to sub-surface geology on the following lands, namely:

<u>Township</u>	<u>Range</u>
41	27
41	28
39, 40, 41	29

all West of the Principal Meridian, and containing an area of 115,200 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 mining claims, and any amendments thereto. Until the cash deposit required under subsection 2 of section 192C of the said regulation is made, the permit on shall be restricted to surface geology.

Dated at Winnipeg this  
30th day of July, 1964.

*[Signature]*  
.....  
Director of Mines

Reservation No. 8

Township 41, Range 27, T.P.M.

All Sections Nos. 1 to 36.

Township 41, Range 28, T.P.M.

All Sections Nos. 1 to 36.

Township 39, Range 29, T.P.M.

All Sections Nos. 1 to 36.

Township 40, Range 29, T.P.M.

All Sections Nos. 1 to 36.

Township 41, Range 29, T.P.M.

All Sections Nos. 1 to 36.



RESERVATION OF OIL AND GAS RIGHTS IN

In consideration of and subject to the provisions,  
conditions and restrictions hereinafter contained, permission  
is hereby granted to: Sun Oil Company, Calgary,

c/o Montreal Trust Company,  
Notre Dame at Albert Street,  
Winnipeg, Manitoba.

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:

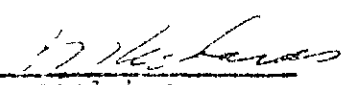
<u>Township</u>	<u>Range</u>
23	20
23	21
23, 24, 25, 26	22
23, 24, 25, 26	23
24, 25, 26	24
25	25

all West of the Principal Meridian, containing 109,268.82 acres,  
more or less. See Attached List.

This reservation is subject in all respects to "The  
Mineral 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  
1920 of the said regulation is made, the examination shall be  
restricted to surface geology.

Dated at Winnipeg this

23rd day of October, 1964.

  
J. W. Lewis  
Director of Mines

Range 20 N.P.

Pt. 1<sup>st</sup> Sec. 7, Pt. 1<sup>st</sup> Sec. 8, Pt. 1<sup>st</sup> Sec. 15, Pt. Sec. 16 Pt. Sec. 17, All Secs. 18, 19, 20, 21, 22, Pt. Sec. 23, 1<sup>st</sup> Sec. 25, Pt. 1<sup>st</sup> Sec. 2, 1<sup>st</sup> Sec. 23, All Secs. 27, 28, 29, 30, 31, 32, 33, 34, 35 and 36.

Township 23, Range 21 N.P.

N<sup>th</sup> Sec. 1, All Secs. 12, 13, 24, N.F.<sup>1</sup> Sec. 25, N.F.<sup>1</sup> Sec. 26, All Secs. 27, 29, 30, 32, 34 and 36.

Township 23, Range 22 N.P.

N<sup>th</sup> Sec. 2, All Secs. 28, 29, 30, 32, 34 and 36.

Township 24, Range 22 N.P.

N.W.<sup>1</sup> Sec. 1, N<sup>th</sup> of S.<sup>1</sup> Sec. 1, W<sup>1</sup> and S.W.<sup>1</sup> Sec. 2, All Sec. 4, 1<sup>st</sup> and S.W.<sup>1</sup> Sec. 6, S.W.<sup>1</sup> Sec. 9, All Secs. 10 and 11, 1<sup>st</sup> and S.W.<sup>1</sup> Sec. 12, S.W.<sup>1</sup> Sec. 13, All Secs. 14, 1<sup>st</sup> and S.W.<sup>1</sup> Sec. 16, All Secs. 18, 1<sup>st</sup> and S.W.<sup>1</sup> Sec. 20, S.W.<sup>1</sup> Sec. 21, All Secs. 22, 24, N.W.<sup>1</sup> Sec. 25, S.W.<sup>1</sup> Sec. 26, N.W.<sup>1</sup> Sec. 27 and S.W.<sup>1</sup> Sec. 27, All Secs. 28, 29, 30, 1<sup>st</sup> and S.W.<sup>1</sup> Sec. 32, 1<sup>st</sup> Sec. 33, All Sec. 34, S.W.<sup>1</sup> Sec. 35 and A.I. Sec. 36.

Township 25, Range 22 N.P.

All Sec. 2, 1<sup>st</sup> and S.W.<sup>1</sup> Sec. 4, All Secs. 6, 10, 11, W<sup>1</sup> Sec. 12, All Secs. 14, 16, S<sup>1</sup> Sec. 17, All Secs. 20, 22, 24, N.W.<sup>1</sup> Sec. 25, All Secs. 28, 29, 30, 32, 34 and S.W.<sup>1</sup> Sec. 36.

Township 26, Range 22 N.P.

All Secs. 4, 6, 16, 18, 20, 22, 29, N<sup>th</sup> Sec. 30, and All Sec. 32.

Township 20, Range 23 N.P.

All Secs. 25 and 36.

Township 24, Range 23 N.P.

All Sec. 2, S<sup>1</sup> Sec. 4, 1<sup>st</sup> and N.W.<sup>1</sup> Sec. 6, All Secs. 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, S.W.<sup>1</sup> Sec. 31, All Secs. 32, 34 and 36.

Township 25, Range 23 N.P.

All Secs. 2, 4, 6, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 29, 30, 32, 34 and 36.

Township 26, Range 23 N.P.

All Secs. 2, 4, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 29, 30, 32, 34 and 36.

Township 27, Range 24 N.P.

All Secs. 14, 20, 1<sup>st</sup> and S.W.<sup>1</sup> Sec. 24, 1<sup>st</sup> Sec. 26, All Secs. 34 and 36.

Township 25, Range 24 N.P.

All Secs. 2, 4, 6, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 29, 30, 32, 34 and 36.

Ch. 30

Section 26, Page 24, 1.

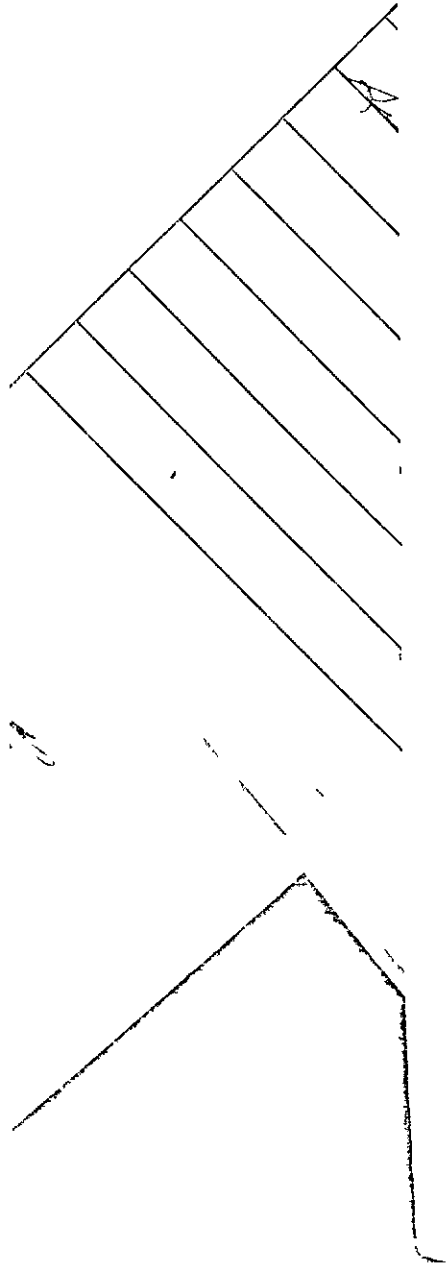
All Secs. 2, 11, 17, 18, 24, 25, 26, All Secs.  
35 and 36.

Section 25, Page 25, 1.

All Secs. 1, All Secs. 2, 11, 12, 14, 24 and 36.

to be  
to be  
to be

to be  
to be  
to be



FINAL ROAD LINK TO MCMURRAY TO BE OPENED JULY 1

The last gap in ground connection to the McMurray tar sands development area will be closed July 1 when the highway bridge across the Athabasca River will be opened officially and turned over to the province of Alberta. W. Harold Rea, board chairman of Great Canadian Oil Sands Limited, will deliver the bridge to Hon. Gordon Taylor, Alberta minister of highways. GCOS put up more than half the money on the huge quarter-mile span which cost \$3.3 million. It links Fort McMurray with a new road to the oil sands.

A parade through Fort McMurray will precede the noon-time ceremony. Afterwards the public will be invited to cross the "bridge to tomorrow's energy" and tour the GCOS extraction and processing plant site 20 miles north. Just a year ago Alberta premier Ernest C. Manning set a plaque marking the start of construction on the \$210 million project, scheduled for completion September 1967.

As a memento of the occasion, GCOS will present to the provincial government a scale model of the bridge. The first car to cross will burst through a ribbon six feet high. Past and present will be represented in a modest tableau at the start of the ceremony.

Completion of the bridge is a significant stage in the scheduled progression of work on the large integrated project. The highway will be used for transportation of equipment and supplies for the later stages of construction, including the northern part of the pipeline from the plant site to Edmonton.

GCOS is currently winding up the details of distribution of its new partially convertible debenture issue sold for \$12.5 million to 125,000 Alberta residents. It is the only company with a provincial permit for commercial production from the tar sands. On completion the facilities will produce 45,000 b/d of synthetic crude, plus byproduct coke and sulphur. Most of the oil will be sold to parent Sun Oil Company Limited for its Sarnia refinery and to this company's parent Sun Oil Company for its Toledo refinery.

OIL SHALE PERMITS ISSUED

PERMITS SURRENDERED

PS.28 Montreal Trust Company - 94,800 acres. Effective June 4, 1965.  
PS.29 - Montreal Trust Company - 99,200 acres. Effective June 4, 1965.  
PS.30 - Montreal Trust Company - 99,401 acres. Effective June 4, 1965.  
PS.31 - Montreal Trust Company - 99,994 acres. Effective June 4, 1965.  
PS.32 - Montreal Trust Company - 97,760 acres. Effective June 4, 1965.  
PS.33 - Montreal Trust Company - 95,680 acres. Effective June 4, 1965.  
PS 34 - Montreal Trust Company - 96,320 acres. Effective June 4, 1965.  
PS.35 - Montreal Trust Company - 69,120 acres. Effective June 7, 1965.  
PS.36 - Montreal Trust Company - 74,880 acres. Effective June 7, 1965.  
PS.37 - Montreal Trust Company - 92,160 acres. Effective June 7, 1965.  
PS.38 - Montreal Trust Company - 86,400 acres. Effective June 7, 1965.  
PS.39 - Montreal Trust Company - 92,160 acres. Effective June 7, 1965.

1,097,875 acs

June 11 '65

Jan

**FILE BACK COVER No.**

FROM

*Oil Shale Reservations*

TO

*No 1, 2, 3, 4, 5, 6, 7, 8, 10*

SUBJECT :-

*Sum Oil Co*

*Oil Shale Reservations*

*General Correspondence*