



May 5, 1995

Mr. George Czyzewski, P.Eng.  
Sr. Reservoir Engineer  
Tundra Oil and Gas Ltd.  
1111 - One Lombard Place  
Winnipeg MB R3B 0X4

WASKADA  
UNIT NO. 6

WATERFLOOD

APPLICATION

Dear George:

**Re: Waskada Unit No. 6  
Application to Convert Wells to Water Injection**

Your application to convert the 9-1-1-26 (WPM), 1-12-1-26 (WPM) and 3-12-1-26 (WPM) wells to water injection in Waskada Unit No. 6 has been approved. Attached is Waterflood Order No. 1 outlining conditions for operation of the waterflood in Waskada Unit No. 6. Waterflood Order No. 1 issued under The Oil and Gas Act replaces Board Order No. PM 44. Also attached are approved copies of the applications to convert the wells.

If you have any questions please don't hesitate to call the undersigned at 945-6574.

Yours truly,

John N. Fox, P.Eng.  
Chief Petroleum Engineer

cc. Waskada/Virden

**MINISTERIAL ORDER  
WATERFLOOD ORDER NO. 1**

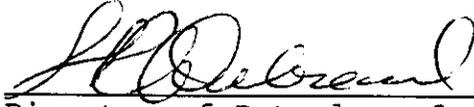
**Pertaining to Waterflood Operations  
in Waskada Unit No. 6**

- 1.0 The Unit Operator shall conduct waterflood operations by injecting water into the Lower Amaranth Formation underlying Waskada Unit No. 6 ("the Unit") through the wells listed in Schedule A. The Director may approve the conversion of additional wells in the Unit to water injection.
- 1.1 Every injection well shall be completed as approved under Section 47 of the Drilling and Production Regulation.
- 1.2 The maximum wellhead pressure at which water may be injected is 10 000 kPa.
- 1.3 The Director may, from time to time , establish a maximum or minimum rate at which water may be injected into a well.
- 1.4 The annulus of each injection well shall be pressure tested in accordance with Section 50 of the Drilling and Production Regulation.
- 2.0 The Unit Operator shall conduct an annual survey to determine the level and distribution of reservoir pressure in the Unit. A summary of the results of any pressure surveys conducted during the year are to be included in the annual waterflood progress report required under Section 73 of the Drilling and Production Regulation.
- 2.1 The frequency of pressure surveys may be reduced where the Director is satisfied that more frequent surveys will not assist the Unit Operator in monitoring the effectiveness of the waterflood.
- 2.2 The Unit Operator is responsible for monitoring the effectiveness of the waterflood and for collecting such reservoir data and other information as is necessary to evaluate and optimize waterflood performance.
- 2.3 The Unit Operator is to advise the Petroleum Branch of the suspension of water injection at any well, any indication of channelling or breakthrough of injected water to a producing well or out of zone and any other detrimental effects that may be attributable to the waterflood operations.

- 3.0 The Unit Operator shall file a report of production or injection for each well in the Unit in accordance with Section 120 of the Drilling and Production Regulation.
- 4.0 The Oil and Natural Gas Conservation Board Order No. PM 44 dated May 13, 1985 is rescinded.

MAY 5, 1995

Date



Director of Petroleum for  
Minister of Energy and Mines

**Schedule A**  
**Waskada Unit No. 6**  
**Water Injection Wells**

Waskada Unit No. 6 WIW 13-6-1-25 (WPM)  
Waskada Unit No. 6 WIW 5-7LAm-1-25 (WPM)  
Waskada Unit No. 6 WIW 13-7LAm-1-25 (WPM)  
Waskada Unit No. 6 WIW 15-7-1-25 (WPM)  
Waskada Unit No. 6 WIW 5-18-1-25 (WPM)  
Waskada Unit No. 6 WIW 7-1-1-26 (WPM)  
Waskada Unit No. 6 WIW 9-1-1-26 (WPM)  
Waskada Unit No. 6 WIW 15-1-1-26 (WPM)  
Waskada Unit No. 6 WIW 1-12-1-26 (WPM)  
Waskada Unit No. 6 Prov. WIW 3-12-1-26 (WPM)  
Waskada Unit No. 6 Prov. WIW 5-12-1-26 (WPM)  
Waskada Unit No. 6 WIW 7-12-1-26 (WPM)  
Waskada Unit No. 6 WIW 15-12-1-26 (WPM)



Date May 5, 1995

## Memorandum

To L.R. Dubreuil  
Director  
Petroleum Branch

From John N. Fox,  
Chief Petroleum Engineer  
Petroleum Branch

Subject Waskada Unit No. 6  
**Conversion of Additional Wells to Water Injection**

Notice of Tundra's application (attached) to convert the 9-1-1-26, 1-12-1-26 and 3-12-1-26 wells in Waskada Unit No. 6 to water injection was sent directly to offsetting royalty and working interest owners. No objections to or interventions in the application were received by the April 28, 1995 deadline.

Therefore it is recommended that the application be approved and Waterflood Order No. 1 be issued by the Director.

A handwritten signature in black ink, appearing to be 'J.N. Fox'.



April 5, 1995

## NOTICE UNDER THE OIL AND GAS ACT

### Waskada Unit No. 6 Application to Convert Additional Wells to Water Injection

Tundra Oil and Gas Ltd., the Unit Operator of Waskada Unit No. 6 ("the Unit") has made application under The Oil and Gas Act to convert the following wells in the Unit to water injection: 9-1-1-26 (WPM), 1-12-1-26 (WPM) and 3-12-1-26 (WPM).

If you have any questions or require any further information regarding the application, you may contact the Petroleum Branch at (204) 945-6574 or the company at:

Tundra Oil and Gas Ltd.  
1111 - One Lombard Place  
Winnipeg MB R3B 0X4  
(204) 934-5850

A copy of the application can be viewed at the offices of the Petroleum Branch in Winnipeg and Waskada.

If no valid objection or intervention is received in writing at the Petroleum Branch, Suite 360 - 1395 Ellice Avenue, Winnipeg, Manitoba, R3G 3P2 by April 28, 1995, the Director may approve the application.

L.R. Dubreuil  
Director of Petroleum



## Memorandum

DATE April 5, 1995

TO Bob Dubreuil  
Director  
Petroleum Branch

FROM John N. Fox  
Chief Petroleum Engineer  
Petroleum Branch

SUBJECT **Waskada Unit No. 6**  
**- Conversion of Additional Wells to Injection**

Tundra Oil and Gas Ltd., Unit Operator of Waskada Unit No. 6, has applied to convert three additional wells to injection 9-1-1-26, 1-12-1-26 and 3-12-1-26.

### Recommendations

It is recommended that notice of the application be sent directly to the working interest owners in:

SW/4 Section 6-1-25  
NW/4 Section 1-1-26  
S/2 Section 12-1-26

If there are no objections to the application, it is recommended that the application be approved by the Director (authority delegated under Section 72 of the regulation). Waterflood Order No. 1 approving waterflood operations in Waskada Unit No. 6 is attached. Waterflood Order No. 1 rescinds Board Order No. PM 44 (May 13, 1985).

### Discussion

Tundra plans to convert injection in Waskada Unit No. 6 from the current inverted 9-spot injection pattern to an inverted 5-spot injection pattern. The company plans to do this in two stages, converting the 9-1-1-26, 1-12-1-26 and 3-12-1-26 wells in 1995 and converting the 9-12-1-26 and 3-18-1-25 wells after the response from the initial conversions is reviewed. Figure 1 shows the current and proposed injection pattern.

Tundra believes pressure and production data indicates poor volumetric sweep efficiency in the Lower Amaranth. Pressure surveys (Fig. 2) indicate an average unit reservoir pressure of 6032 kPa, almost 3000 kPa below original reservoir pressure. As shown on Figure 2 the southern portion of the unit does not appear to be receiving adequate pressure support from the current injectors. Though the current VVR is 1.97 (1994), Tundra feels as much as 80% of the injected water is going out of zone into the underlying Mission Canyon zone.

Tundra believes increasing the ratio of injectors to producers will increase the volume of water injected into the Lower Amaranth and result in the recovery of bypassed reserves. Tundra has estimated conversion of the 9-1, 1-12 and 3-12 wells to injection will result in incremental recoverable reserves of 10,935 m<sup>3</sup>, increasing recovery from the Unit from 18.3% OOIP to 19.1% OOIP.

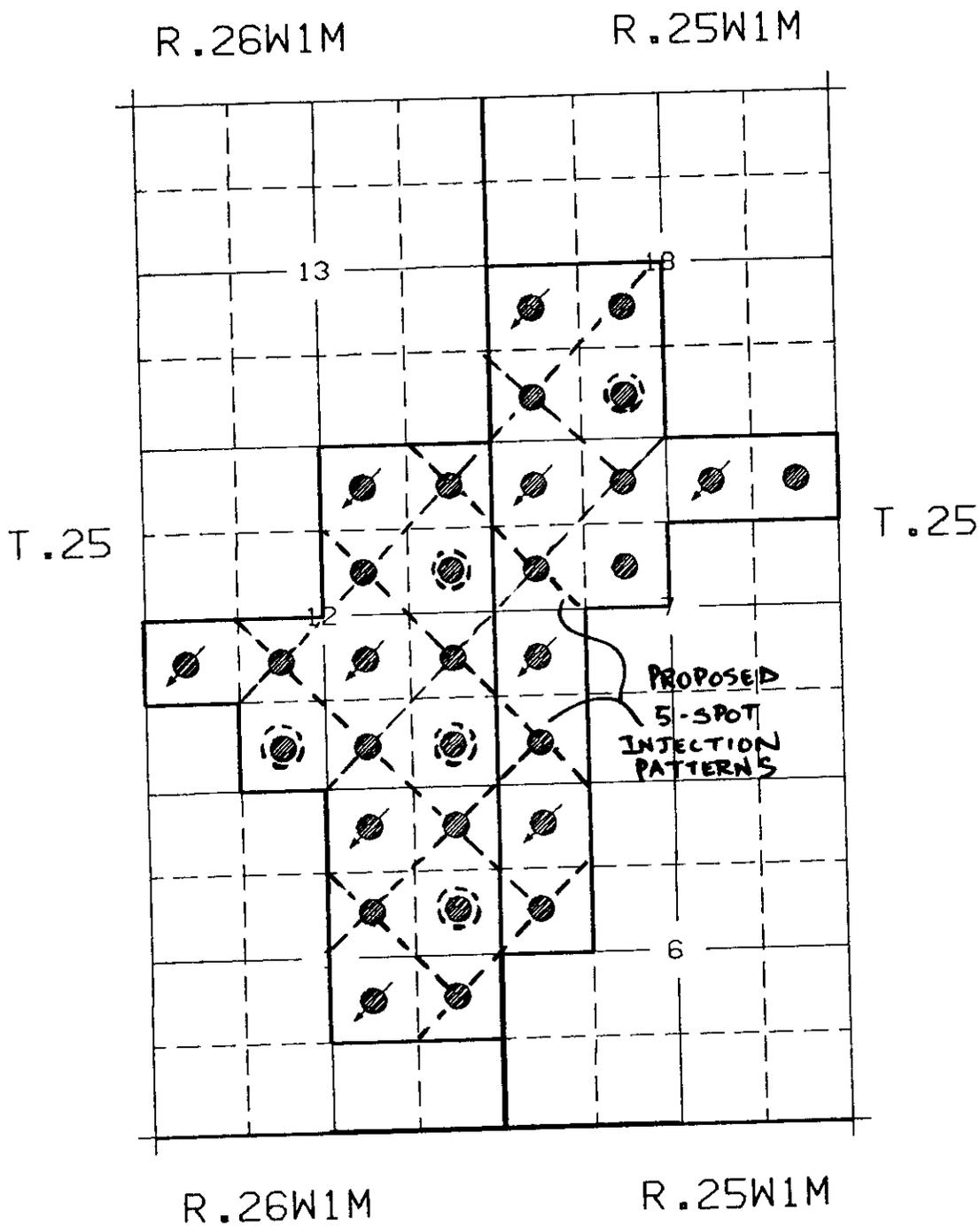
Tundra has provided the names of the royalty and working interest owners within 0.5 km of the proposed conversions. The owners in the SW/4 of Sec. 6-1-25, NW/4 of Sec. 1-1-26 and the S/2 of Sec. 12-1-26 lands will be notified directly of the application. A copy of the proposed notice of the application is attached.

If there are no objections to the application, it is recommended that the application be approved by issuing Waterflood Order No. 1 under The Oil and Gas Act. Waterflood Order No. 1 (attached) rescinds Board Order No. PM 44.

A handwritten signature in black ink, consisting of a stylized 'J' followed by a large, loopy 'F' and a horizontal line extending to the right.

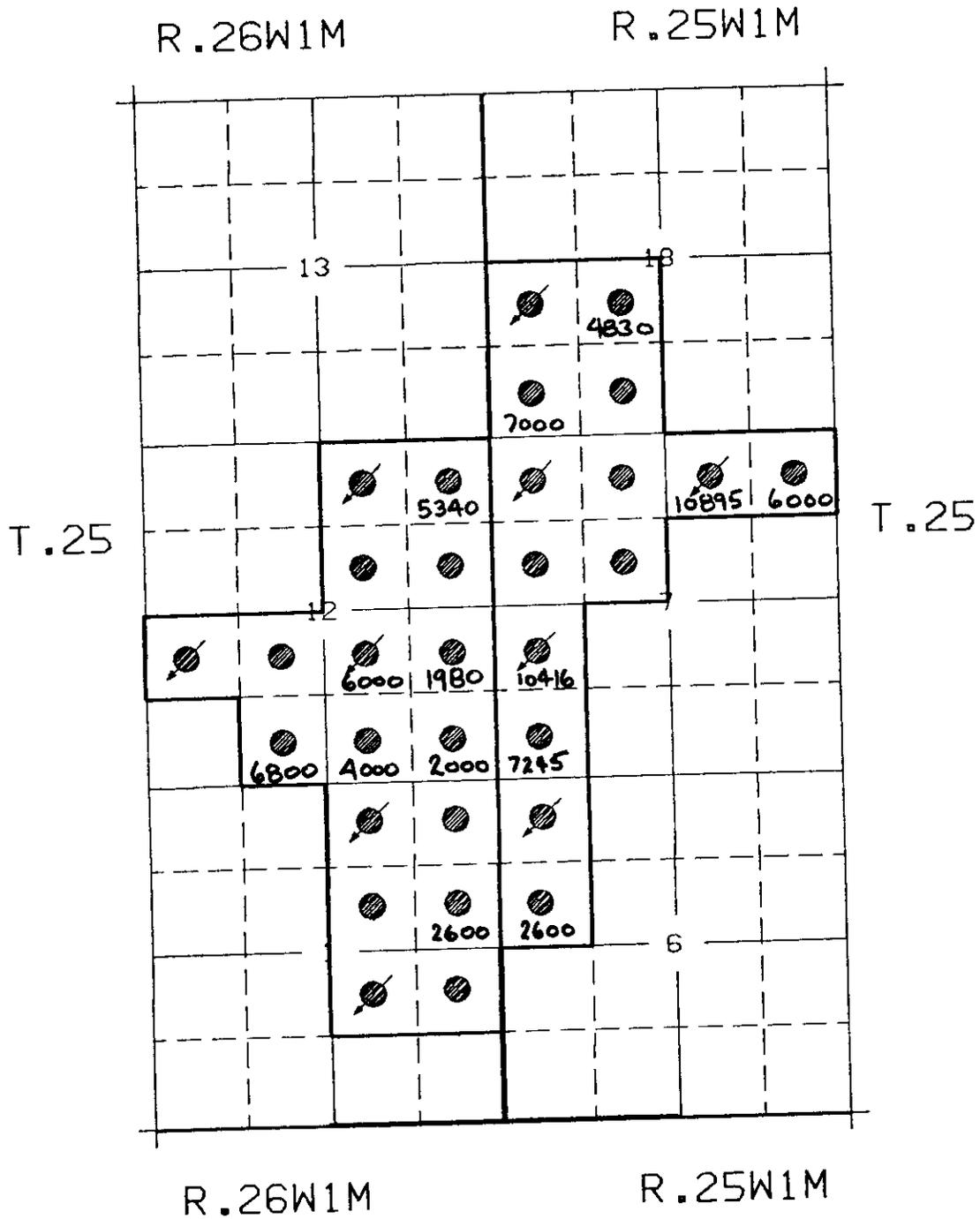
John N. Fox

FIGURE 1  
 WASKADA UNIT NO. 6  
 AREA MAP



- OIL WELL
- / WATER INJECTION WELL
- UNIT BOUNDARY
- ⊙ PROPOSED INJECTOR CONVERSION

FIGURE 2  
WASKADA UNIT NO. 6  
AREA MAP



● PRESSURE (kPa)  
2600



OIL WELL



WATER INJECTION WELL



UNIT BOUNDARY



April 5, 1995

## NOTICE UNDER THE OIL AND GAS ACT

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Winnipeg MB R3B 0X4  
(204) 934-5850

A copy of the application can be viewed at the offices of the Petroleum Branch in Winnipeg and Waskada.

If no valid objection or intervention is received in writing at the Petroleum Branch, Suite 360 - 1395 Ellice Avenue, Winnipeg, Manitoba, R3G 3P2 by April 28, 1995, the Director may approve the application.

A handwritten signature in cursive script, reading "L.R. Dubreuil".

L.R. Dubreuil  
Director of Petroleum

**MINISTERIAL ORDER  
WATERFLOOD ORDER NO. 1**

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in Waskada Unit No. 6**

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- 3.0 The Unit Operator shall file a monthly report of production or injection for each well in the Unit in accordance with Section 120 of the Drilling and Production Regulation.
- 4.0 The Oil and Natural Gas Board Order No. PM 44 dated May 13, 1985 is rescinded.

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Date

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Director of Petroleum for  
Minister of Energy and Mines

**Schedule A**  
**Waskada Unit No. 6**  
**Water Injection Wells**

Waskada Unit No. 6 WIW 13-6-1-25 (WPM)  
Waskada Unit No. 6 WIW 5-7LAm-1-25 (WPM)  
Waskada Unit No. 6 WIW 13-7LAm-1-25 (WPM)  
Waskada Unit No. 6 WIW 15-7-1-25 (WPM)  
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Waskada Unit No. 6 WIW 7-1-1-26 (WPM)  
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Waskada Unit No. 6 Prov. WIW 5-12-1-26 (WPM)  
Waskada Unit No. 6 WIW 7-12-1-26 (WPM)  
Waskada Unit No. 6 WIW 15-12-1-26 (WPM)



FAX COVER PAGE

DATE: MARCH 14, 1995

PAGE 1 OF 1  
(Including cover page)

TO: JOHN FOX  
ATTN:

#

FROM: GEORGE CZYZEWSKI  
OF:

# (204) 934-5820

Information requested re Waskada  
Unit No. 6 Injectors:

MINIMUM  
ORDER  
ADDRESS

{ SW 1/4 - 6 - 1 - 25 Land → not leased  
FRANCIS LAWRENCE  
NW 1/4 - 1 - 1 - 26 Land → not leased  
FRANKLIN SMART

SW 1/4 - 12 - 1 - 26 Land → Leased by Tundra.

George

Should you have any questions please call me  
at 934-5053.

PLEASE NOTE: IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CONTACT BEV  
AT (204) 934-5850.



FAX COVER PAGE

DATE: MARCH 30, 1995

PAGE 1 OF 5  
(including cover page)

TO: JOHN FOX  
ATTN:

#

FROM: GEORGE CRYZEWSKI

#(204) 934-5820

*This message is intended only for the use of the individual or entity to which it is addressed and contains information that is privileged and confidential. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, the reader is hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original message to us at the address below at our cost.*

*Please find attached <sup>title of</sup> mineral  
owner adjacent to proposed  
water injection wells.*

PLEASE NOTE: IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CONTACT BEV AT (204) 934-5850

1111 - One Lombard Place, Winnipeg, Manitoba R3B 0X4      Telephone: (204) 934-5850      Fax: (204) 934-5820



*W. J. Schrey*  
Form No. PS-2 57587

From No.

Transfer

Application 11662

REGISTERED					
Mortgage for	The	day of			No.
\$		18	TO		
	at				
				Deputy District Registrar	
Mortgage for	The	day of			No.
\$		19	TO		
	at				
				Deputy District Registrar	
Mortgage for	The	day of			No.
\$		19	TO		
	at				
				Deputy District Registrar	
Mortgage for	The	day of			No.
\$		19	TO		
	at				
				Deputy District Registrar	

**PHOTOCOPY MADE**  
**NOT A DUPLICATE ORIGINAL**  
MAR 3 1995

No. 85-1245  
Filed 2.5.88  
by *[Signature]*  
District Registrar

No. 85-13652 CAVEAT Filed  
18 Nov 1985  
By *[Signature]*  
Affecting *[Signature]*  
DISTRICT REGISTRAR

No. 94-4340 CAVEAT Filed  
2 May 1994  
By *[Signature]*  
Affecting *[Signature]*  
DISTRICT REGISTRAR

No. 85-13278  
Withdrawal of Caveat  
No. 85-1211  
28 Dec 1988

No. 89-6143  
Withdrawal of Caveat  
No. 85-13652  
15 June 1989

40072

Cart No. 1913

SW6-1-25  
SFS



# Certificate of Title

UNDER "THE REAL PROPERTY ACT"

FRANCIS HEDLEY LAWRENCE, of the Post Office of Maskaada, in the Province of Manitoba, Farmer,

is now seized of an estate in fee simple in possession subject to such encumbrances, liens and interests as are notified by memorandum underwritten (or endorsed hereon) in all that piece or parcel of land known and described as follows,

The West Half and the South East Quarter of Section Six (6) in Township One (1) and Range Twenty-five (25) West of the Principal Meridian in the Province of Manitoba, Excepting thereout all mines and minerals together with the right to enter thereon to work and remove the same, and the South Half of said Section being subject to any right or interest whether express or implied which may be contained in instrument registered in the Bolessevain Land Titles Office as No. 53276.

(1) Public notice is hereby given that the description of the land included in a certificate of title is deemed to be correct and that the certificate is to be taken as a finality.  
 (2) Any mistake or irregularity in the description of the land included in a certificate of title shall not affect the validity of the certificate.  
 (3) Any mistake or irregularity in the description of the land included in a certificate of title shall not affect the validity of the certificate.  
 (4) Any mistake or irregularity in the description of the land included in a certificate of title shall not affect the validity of the certificate.  
 (5) Any mistake or irregularity in the description of the land included in a certificate of title shall not affect the validity of the certificate.  
 (6) Any mistake or irregularity in the description of the land included in a certificate of title shall not affect the validity of the certificate.  
 (7) Any mistake or irregularity in the description of the land included in a certificate of title shall not affect the validity of the certificate.  
 (8) Any mistake or irregularity in the description of the land included in a certificate of title shall not affect the validity of the certificate.  
 (9) Any mistake or irregularity in the description of the land included in a certificate of title shall not affect the validity of the certificate.  
 (10) Any mistake or irregularity in the description of the land included in a certificate of title shall not affect the validity of the certificate.

No. 87-9690 CAVEAT Filed  
21 Aug 1987  
By Omega Hydrocarbons Ltd  
Affecting NW 1/4 - 6  
District Registrar

No. 86-210 CAVEAT Filed  
6 Jan 1985  
By Omega Hydrocarbons Ltd  
Affecting SW 1/4  
District Registrar

No. 85-14420 CAVEAT Filed  
3 Dec 1985  
By Newstage Resources Limited  
Affecting NW 1/4  
District Registrar

No. 94-11218  
Assignment of Caveat No. 85-14210  
Filed 14 Nov 1987  
To: Manitoba Oil and Gas Ltd

No. 87-11523 CAVEAT Filed  
9 Oct 1987  
By Omega Hydrocarbons Ltd  
Affecting NW 1/4 - 6  
District Registrar

No. 87-9995  
Montgomerie Order  
By Chevron Canada Resources Limited  
Produced Pursuant to Order  
6 Aug 1987  
No. L.S.D. 12  
District Registrar

No. 85-14210 CAVEAT Filed  
29 Nov 1985  
By Chevron Canada Resources Limited  
Affecting L.S.D. 12 of NW 1/4  
District Registrar

No. 83-12815  
Assignment of Caveat No. 85-14210  
Filed 6 Dec 1985  
To: Landings Oil & Gas Ltd

No. 90-11423  
Withdrawal of Caveat  
No. 87-11523  
19 Nov 1990

IN WITNESS WHEREOF I have hereunto signed my name and affixed my Seal of office this seventeenth day of July One thousand nine hundred and sixty-eight.  
Signed in the presence of

*Francis Hedley Lawrence*

*W. A. P. ...*  
District Registrar  
for *Bolessevain*

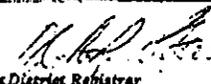
No. 87-11523  
Assignment of Caveat No. 85-14210  
Filed 14 Nov 1987  
To: Landings Oil & Gas Ltd

Form No. PS-F-1

From No. 39888

Transfer 63335

Application 8511

		REGISTERED			
Mortgage for	The	17th	day of	Francis Hedley Lawrence	No. 63336
\$ 25,000.00		July	19 68	TO	
	at	9:10 A.M.		The Manitoba Agricultural Credit Corp.	
				 Deputy District Registrar	
Mortgage for	The	30th	day of	Francis Hedley Lawrence	No. 63436
\$ 15,200.00		July	19 68	TO	
	at	11 A.M.		W. H. Hedley Lawrence	
				 Deputy District Registrar	
Mortgage for	The		day of		No.
\$		19		TO	
	at				
				Deputy District Registrar	
Mortgage for	The		day of		No.
\$		19		TO	
	at				
				Deputy District Registrar	
Mortgage for	The		day of		No.
\$		19		TO	
	at				
				Deputy District Registrar	
		No. 84-11718 Assignment of Caveat No. 84-624 Filed 14 Nov 1984 TO: Tundra Oil and Gas Ltd.		Deputy District Registrar	

RELEASED

RELEASED

PHOTOCOPY NOT A DUPLICATE ORIGINAL  
MAR 13 1995

NO. 84-527  
 Cancellation of Caveat  
 Filed 19 Feb 1984  
 by [Signature]  
 affecting [Signature]  
 District Registrar

No. 84-624  
 Cancellation of Caveat  
 filed 1.3.84  
 by [Signature]  
 affecting [Signature]  
 District Registrar

No. 85-737  
 Cancellation of Caveat  
 Filed 11 Oct 1985  
 by [Signature]  
 affecting [Signature]  
 District Registrar

No. 84-623  
 Withdrawal of Caveat  
 No. 84-567  
 21 Feb 1984

No. 84-1596  
 POSTPONEMENT OF  
 22 Feb. No. 83336  
 to  
 Caveat No. 85-1444  
 Reg. 19 Feb 1984  
 [Signature]  
 DISTRICT REGISTRAR

No. 85-11774  
 Withdrawal of Caveat  
 No. 85-737  
 11 Oct 1985

No. 88-11552  
 Filed  
 31 Oct 1988  
 By [Signature]  
 Affecting [Signature]  
 DISTRICT REGISTRAR

No. 93-1682  
 Withdrawal of Caveat  
 No. 88-11552  
 12 Feb 1993  
 [Signature]



FAX COVER PAGE

DATE: *March 20/95*

PAGE *1* OF *2*  
(Including cover page)

TO: *JOHN FOX*  
ATTN:

#

FROM: *GEORGE CZYZEWSKI*  
OF:

# (204) 934-5820

*First of three notices you requested  
for Waskada Unit No.6 well  
conversions.*

*George*

PLEASE NOTE: IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CONTACT BEV  
AT (204) 934-5850.



February 28, 1995

Franklin Ewald Smart  
P.O. Box 93  
Waskada, Manitoba  
ROM 2E0

Dear Mr. Smart:

RE: CONVERSION TO WATER INJECTION WELL  
Surface Lease dated October 5, 1982  
TWP 1 RGE 26 WPM: LSD 9 SEC 1  
Our File(s): 1284

This letter is to advise that Tundra Oil and Gas Ltd. intends to convert the subject well to a water injection well in order to provide additional waterflood support for Waskada Unit #6. We expect the conversion to be completed in June or July of this year.

In order to obtain the government's approval to the conversion, we require your approval as the surface owner. Would you please indicate your consent by signing, dating and returning one copy of this letter in the envelope provided at your earliest convenience.

Thank you for your prompt attention to this matter. Should you have any further questions, please do not hesitate to call.

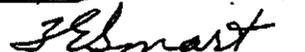
Sincerely,

TUNDRA OIL AND GAS LTD.

  
Suzanne R. Toews  
Land Administrator

/Enclosures

**APPROVAL TO THE CONVERSION OF 9-1-1-26 WPM TO  
A WATER INJECTION WELL IS HEREBY GRANTED THIS  
21 DAY OF MARCH, 1995.**

  
Franklin Ewald Smart

WASKADA UNIT #6 - INJECTOR CONVERSIONS

LC#

111	9-1-1-20	WAPDOWNTR	FRANKLIN	SMART
112	3-12-1-20	"	HOWLIN	LEE
113	1-12-1-20	"	"	"

- CHECK WITH WASKADA FOR RECEPTION PROGRAMS

3-12-1-20 DATE COMPLETION/COMPLETED?

PERFS 715-27 LA  
735-365 DC

WASKADA UNIT NO 6 MUST INITIATE LA COMPLETION  
resulted in out of zone communication

- 25% of production contribution from MC-3
- DC is higher pressure (suggested by buildup 2  
12-3-2001)

- 1994 press surveys suggest pressure -  
scatter pattern of - it is low if additional  
press support req'd

\* - industry accepted LA recovery 20-25% oil  
(16 lb spacing, whether or no whether)

- review of LA wells with no underlying MC pay 1-12, 10-12, 16-7 & 4-18 indicate aver. recovery 22% OOIP
- assumption any well with LA recovery in excess of 25% OOIP, has MC production
- wells not fractured out of zone - low water-cut less than 30%
- estimated only 20% of injected water entering Spearfish
- 1994 VRR = 1.14, cumulated VRR = 0.71 (Dec 31/94)
- inverted 9-spot injection
- current LA pressure 6000 kPa, 3000 kPa below original reservoir press.
- est. volumetric sweep eff = 0.37
- increase ratio of injections to producers
- majority of injected wt going out of zone into MC.
- bypassed LA reserves

plan to add 5 new injectors to convert existing  
inverted 9-spot injection pattern to inverted 5-spot  
injection pattern, 1st stage convert 1-9, 1-12 & 3-12  
2nd stage 9-12 & 3-18

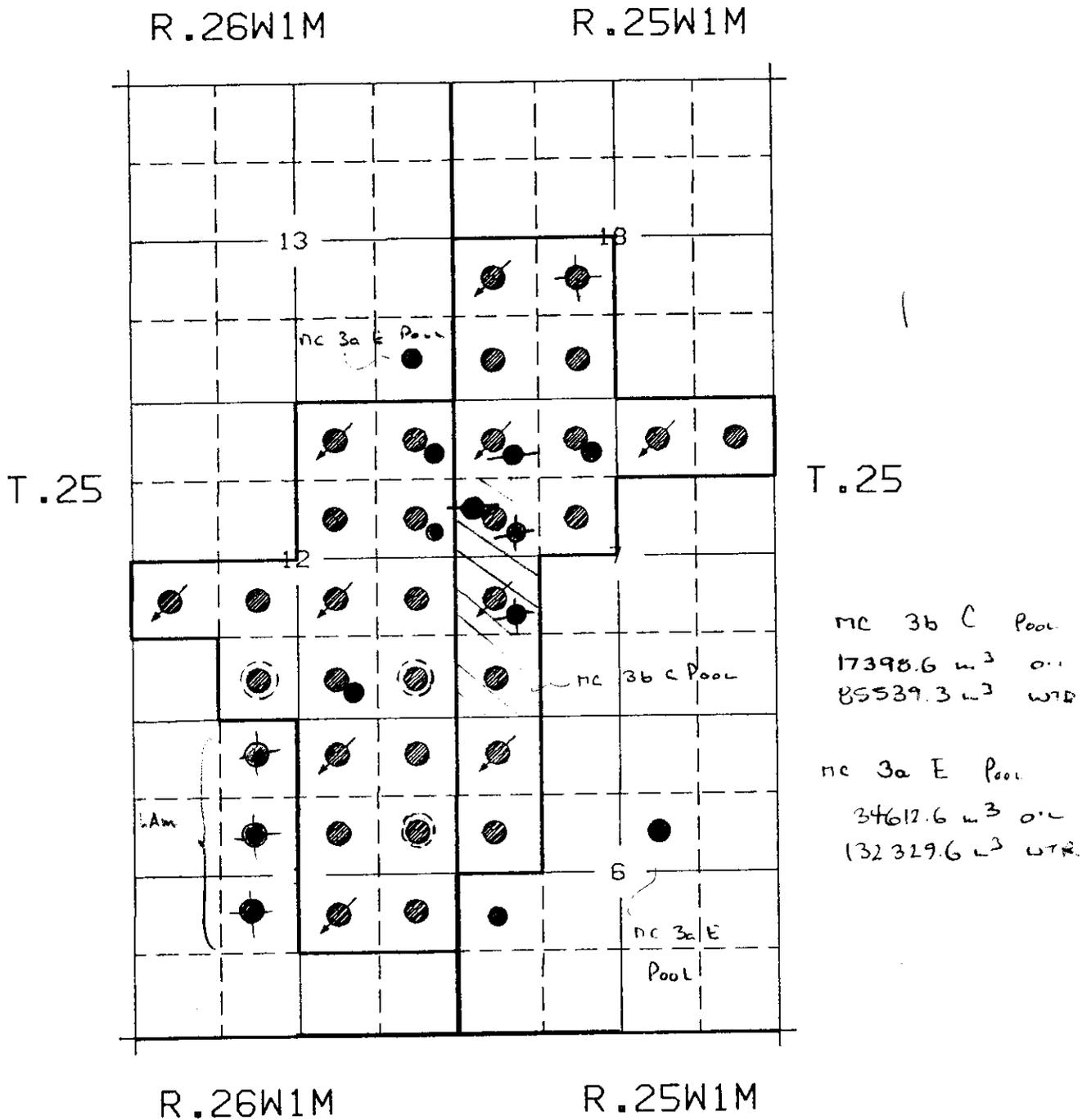
- est. incremental recovery 10,935 m<sup>3</sup>

CHECK NON-UNIT MC PROD

- NOTIFY OFFSETTING MINERAL OWNERS <sup>WITHIN</sup> 0.5 km

IN	SW/4	SEC	6-1-25
	NW/4	SEC	1-1-26
	SW/4	SEC	12-1-26

FIGURE 1  
 WASKADA UNIT NO. 6  
 AREA MAP



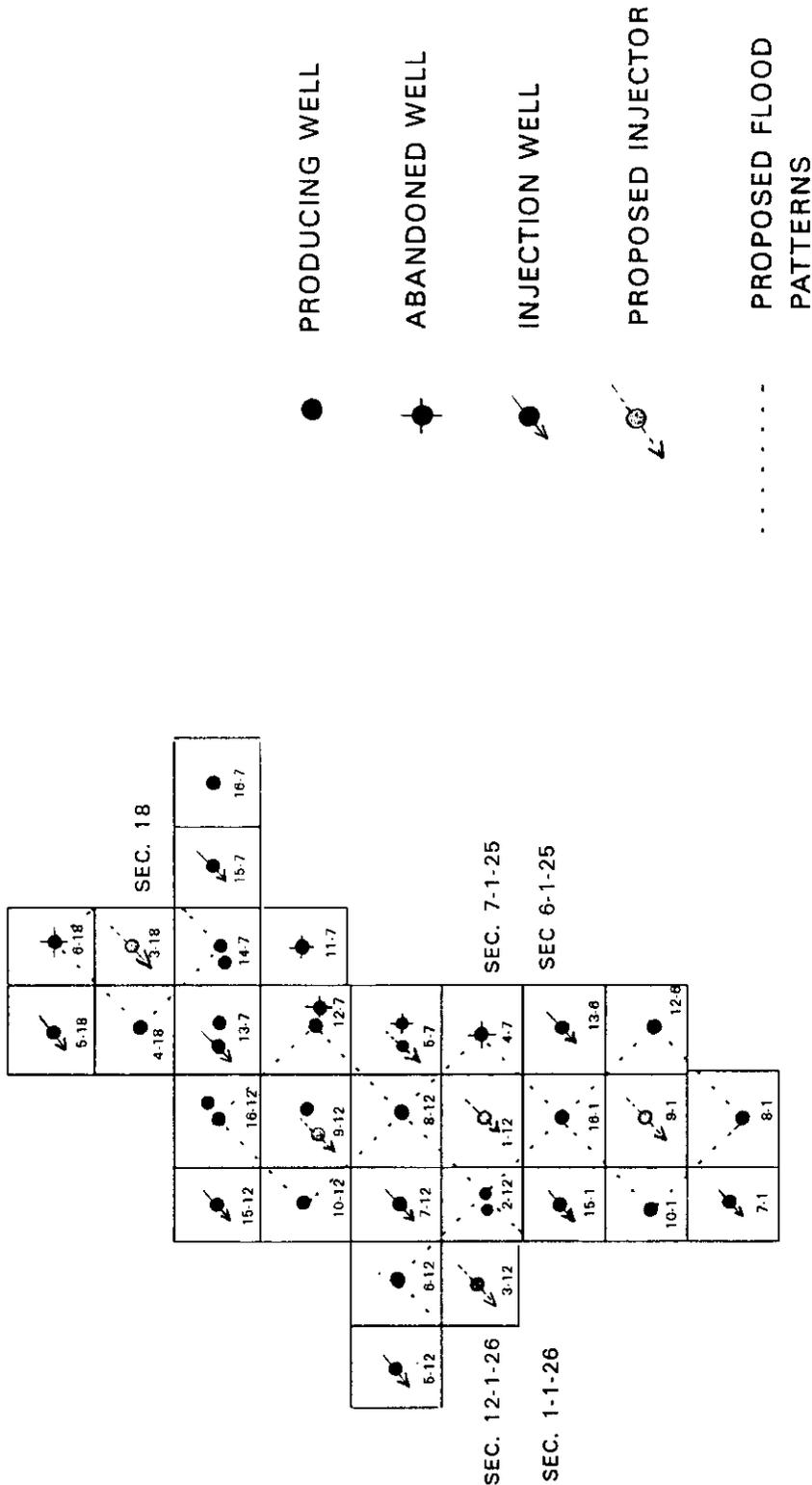
- OIL WELL
- ◌ WATER INJECTION WELL
- UNIT BOUNDARY

FIGURE NO. 6

# WASKADA UNIT NO. 6

## WATERFLOOD OPTIMIZATION

### INSTALLATION OF 5-SPOT FLOOD PATTERNS



March 10, 1995

Manitoba Energy and Mines  
Petroleum Branch  
1395 Ellice Avenue, Suite 360  
Winnipeg, Manitoba  
R3G 0G3

Attention: **Mr. J. Fox, P.Eng.**  
**Chief Petroleum Engineer**

Dear John,

**RE: Waskada Unit No.6**  
**1994 Progress Report**  
**Application to Convert 9-1-1-26, 1-12-1-26, and 3-12-1-26 to**  
**Water Injection Service**

---

Please find attached the following information in support of Tundra's application to convert the referenced wells to injection service:

- (1) Progress Report January 1, 1994 to December 31, 1994
- (2) Individual well applications to convert 9-1-1-26, 1-12-1-26, and 3-12-1-26 to water injection service.
- (3) Detailed well operations programs to convert the referenced wells to injection service.
- (4) Letters notifying surface owners of proposed operations at the referenced well locations.

Yours truly,

**TUNDRA OIL AND GAS LTD.**



George Czyzewski, P.Eng.  
Senior Reservoir Engineer

cc: T. Howell / M. Dupont



February 28, 1995

Franklin Ewald Smart  
P.O. Box 93  
Waskada, Manitoba  
ROM 2E0

Dear Mr. Smart:

RE: CONVERSION TO WATER INJECTION WELL  
Surface Lease dated October 5, 1982  
TWP 1 RGE 26 WPM: LSD 9 SEC 1  
Our File(s): 1284

This letter is to advise that Tundra Oil and Gas Ltd. intends to convert the subject well to a water injection well in order to provide additional waterflood support for Waskada Unit #6. We expect the conversion to be completed in June or July of this year.

In order to obtain the government's approval to the conversion, we require your approval as the surface owner. Would you please indicate your consent by signing, dating and returning one copy of this letter in the envelope provided at your earliest convenience.

Thank you for your prompt attention to this matter. Should you have any further questions, please do not hesitate to call.

Sincerely,

TUNDRA OIL AND GAS LTD.

A handwritten signature in cursive script, appearing to read "S. Toews".

Suzanne R. Toews  
Land Administrator

/Enclosures

**APPROVAL TO THE CONVERSION OF 9-1-1-26 WPM TO  
A WATER INJECTION WELL IS HEREBY GRANTED THIS  
\_\_\_\_\_ DAY OF MARCH, 1995.**

\_\_\_\_\_  
*Franklin Ewald Smart*



February 28, 1995

Melvin James Lee  
P.O. Box 136  
Waskada, Manitoba  
ROM 2E0

Dear Mr. Lee:

RE: CONVERSION TO WATER INJECTION WELL  
Surface Lease dated October 31, 1983  
TWP 1 RGE 26 WPM: LSD 3 SEC 12  
Our File(s): 1277

This letter is to advise that Tundra Oil and Gas Ltd. intends to convert the subject well to a water injection well in order to provide additional waterflood support for Waskada Unit #6. We expect the conversion to be completed in June or July of this year.

In order to obtain the government's approval to the conversion, we require your approval as the surface owner. Would you please indicate your consent by signing, dating and returning one copy of this letter in the envelope provided at your earliest convenience.

Thank you for your prompt attention to this matter. Should you have any further questions, please do not hesitate to call.

Sincerely,

TUNDRA OIL AND GAS LTD.

A handwritten signature in cursive script, appearing to read "Suzanne R. Toews".

Suzanne R. Toews  
Land Administrator

/Enclosures

**APPROVAL TO THE CONVERSION OF 3-12-1-26 WPM TO  
A WATER INJECTION WELL IS HEREBY GRANTED THIS  
\_\_\_\_\_ DAY OF MARCH, 1995.**

\_\_\_\_\_  
**Melvin James Lee**

February 28, 1995

Melvin James Lee  
P.O. Box 136  
Waskada, Manitoba  
R0M 2E0

Dear Mr. Lee:

RE: CONVERSION TO WATER INJECTION WELL  
Surface Lease dated July 30, 1983  
TWP 1 RGE 26 WPM: LSD 1 SEC 12  
Our File(s): 1297

---

This letter is to advise that Tundra Oil and Gas Ltd. intends to convert the subject well to a water injection well in order to provide additional waterflood support for Waskada Unit #6. We expect the conversion to be completed in June or July of this year.

In order to obtain the government's approval to the conversion, we require your approval as the surface owner. Would you please indicate your consent by signing, dating and returning one copy of this letter in the envelope provided at your earliest convenience.

Thank you for your prompt attention to this matter. Should you have any further questions, please do not hesitate to call.

Sincerely,

TUNDRA OIL AND GAS LTD.



Suzanne R. Toews  
Land Administrator

/Enclosures

**APPROVAL TO THE CONVERSION OF 1-12-1-26 WPM TO  
A WATER INJECTION WELL IS HEREBY GRANTED THIS  
\_\_\_\_\_ DAY OF MARCH, 1995.**

---

**Melvin James Lee**

# Manitoba



Energy and Mines

Petroleum

555 — 330 Graham Avenue  
Winnipeg, Manitoba, CANADA  
R3C 4E3

FAX NO.: (204) 945-0586

(204) 945-6577  
FAX: (204) 945-0586

DATE: APR 18/95

TOTAL NO. OF PAGES (including this page) 2

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME: ART PEARSON

FROM: John N. Fox  
Chief Petroleum Engineer

BRANCH: \_\_\_\_\_

BRANCH: Petroleum Branch

FAX NO: (403) 668-4288

PHONE: (204) 945-6574

COMMENTS: NOTICE OF APPLICATION TO CONVERT  
ADDITIONAL WELLS TO WATER INJECTION  
IN THE WASKADA FIELD

This message is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law.

If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original to us by postal service at the address noted above. Thank you.

ORIGINALS WILL BE:

Mailed to you:  Delivered to you:  Picked up  
 Mailed/Delivered upon request:  Remain on our file.



MB ENERGY AND MINES

COMMAND #095

DATE	TIME	TO/FROM	MODE	MIN/SEC	PGS	STATUS
001	4/18 15:13	1 403 668 4288	EC--S	00"52	002	OK

# Manitoba



Energy and Mines

Petroleum

555 — 330 Graham Avenue  
Winnipeg, Manitoba, CANADA  
R3C 4E3

FAX NO.: (204) 945-0586

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Chief Petroleum Engineer

BRANCH: \_\_\_\_\_

BRANCH: Petroleum Branch

FAX NO: (403) 668-4288

(204) 945-0586

OFFSETTING OWNERS

SW/4 Sec 6-1-25

HERBERT LAWRENCE 1/2  
FRANCIS LAWRENCE 1/2  
OTTEGA - WIC 6-4-1-25  
CORPORATE 1/2 - Royalty Interest JUN/94

NW/4 Sec 1-1-26  
UNLEASED

SMART OILS FRANKLIN SMART 1/2  
GERALD MACKAY 1/8  
ARTHUR PEARSON 1/8 } NEED ADDRESSES

NOTICE TO:

GERALD MACKAY  
Box 1151  
BRANDON R7A 6A4

ARTHUR MCDONALD PEARSON  
WINDYBAY DELIVERY  
WHITEHORSE, YUKON  
403 667-4288

+ copy to CURVIER OILS

~~11030-127 Street~~

11030-127 Street  
Edmonton AB T5M 3K7

(403) 667-7041  
PHONE 2 10M

HEATHER SEND A COPY OF THE NOTICE

✓ ① OMEGA HYDROCARBONS LTD - SW/4 SEC 6-1-25  
WARREN SHARP

✓ ② GREAT AMERICAN ENERGY INC 2-12-1-26  
TODD J BALLANTYNE

✓ ③ TUNDRA OIL & GAS LTD

④ NEDON & WASKADA OFFICES

✓ ⑤ FRANKLIN SMART PO. BOX 93  
WASKADA ROT 2E0

✓ ⑥ MELVIN J. LEE  
PO. BOX 136 WASKADA, ROT 2E0

✓ ⑦ FRANK LAURENCE  
GENERAL DELIVERY  
WASKADA



FAX COVER PAGE

DATE: APRIL 6, 1995

PAGE 1 OF 11  
(including cover page)

TO: JOHN FOX  
ATTN:

#

FROM: GEORGE CZYZEWSKI

#(204) 934-5820

*This message is intended only for the use of the individual or entity to which it is addressed and contains information that is privileged and confidential. If the reader of this message is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, the reader is hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone and return the original message to us at the address below at our cost.*

*Remaining title info. for  
Waskacha Unit No. 6 conversion  
(1-12, 9-1, 3-12-1-26)*

PLEASE NOTE: IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CONTACT BEV AT (204) 934-5850



Part No. 160292

# Certificate of Title

## UNDER "THE REAL PROPERTY ACT"

HERBERT JOSEPH LAWRENCE, and FRANCIS BEDLEY LAWRENCE,  
both of the Postal District of Waskada, in Manitoba,  
Farmers,

No. Ed. 12622  
Assignment of Caveat No. 88-2148  
Filed 27 November 1988  
TO: Clundra Oil and Gas Ltd.

an undivided one-half interest in  
are each now seized of an estate in fee simple in possession subject to such encumbrances, liens and  
interests as are notified by memorandum underwritten (or endorsed hereon) in all that piece or parcel  
of land known and described as follows,

**PARCEL ONE:** All mines and minerals in the following described land:

The NW 6-1-25 WPM, excepting thereout an undivided one-half interest in all petroleum, natural gas  
and related hydrocarbons, other than coal, as set forth in Instrument No. 52530 80 Div.

**PARCEL TWO:** All mines and minerals in the following described land:

The S 1/2 6-1-25 WPM, excepting thereout:  
Firstly: An undivided one-half interest in all petroleum, natural gas and related hydrocarbons, other than  
coal, as set forth in Instrument No. 52530 80 Div.  
Secondly: An undivided one-half interest in all petroleum, natural gas and related hydrocarbons, as set forth  
in Instrument No. 53276 80 Div.

No. 53276  
Assignment of Caveat No. 88-2148  
Filed 11 Oct 1985  
TO: Clundra Oil & Gas Ltd.

No. 53276-Option  
80 DIV.  
FROM Albert Edward  
Lawrence  
to Leonard F. WATSON  
Produced and Registered  
20 February 1982  
Re: Pol. 2.  
District Registrar

No. 98501 80 CAVEAT Filed  
23 November 1982  
By New Scope Resources Ltd.  
Affecting Pol. 1.  
District Registrar

No. 88-2148 CAVEAT Filed  
23 March 1988  
By Clundra Canada  
Resources Ltd.  
Affecting 1/4 m.m. in  
NW 1/4  
DISTRICT REGISTRAR

No. 86-514 80 CAVEAT Filed  
13 February 1984  
By New Scope Resources Ltd.  
Affecting NW 6.  
District Registrar

No. 85-11795  
Withdrawal of Caveat  
No. 85-580  
11 Oct 1985

No. 85-580 80 CAVEAT Filed  
13 February 1985  
By Canadian Imperial Bank  
Affecting NW 6.  
District Registrar

IN WITNESS WHEREOF I have hereunto signed my name and

affixed my Seal of office this twelfth day of June  
One thousand nine hundred and eighty-five.  
Signed in the presence of

*A. H. Howell*

*A. H. Howell*  
Assistant District Registrar  
for BRANDON

No. 98-11716  
Assignment of Caveat No. 14-514  
Filed 14 May 1984  
TO: Clundra Oil & Gas Ltd.





# Manitoba

## Central of Title

SMART OILS LTD.

is now seized of an estate in fee simple in possession subject to such encumbrances, liens and interests as are notified by memorandum underwritten (or endorsed hereon) in all that piece or parcel of land known and described as follows,

All Mines and Minerals in the North-West Quarter of Section One, in Township One and Range Twenty-six, West of the Principal Meridian, in Manitoba, EXCEPTING an undivided one-half interest in all mines and minerals, as set forth in Deed registered in the Boissevain Land Titles Office as No. 54008.

PHOTOCOPY MADE MAR 28 1995  
NOT A DUPLICATE ORIGINAL

No. 6251A Lease FROM Franklin Dwald Smart TO Gordon A. Raymond PRODUCED AND REGISTERED 29th May, 1961 at 9:22 P & N.G. & R. H. Exc coal & V. Stone ✓	No. 62670 Assignment of Lease 6251A FROM Gordon A. Raymond TO Colorado Oil & Gas PRODUCED AND REGISTERED 21 July, 1961 at 9:08	No. 72622 Lease FROM Franklin Dwald Smart TO Troy Oils Ltd. PRODUCED AND REGISTERED 26 Sept, 1977 at 9:20 P & N.G. & R. H. exc. coal & V. Stone ✓	No. 75359 Assignment of Lease No. 72622 FROM Troy Oils Ltd. TO Marvin D. Allison PRODUCED AND REGISTERED 7 Aug, 1981 as D.B. 3846	No. 75360 Assignment of Lease No. (98359) FROM Marvin D. Allison TO Transue Oil & Gas PRODUCED AND REGISTERED 7 August, 1981 as D.B. 3847
--	--	---	---	---

IN WITNESS WHEREOF I have hereunto signed my name and  
 affixed my Seal of office this Fifteenth day of March  
 One thousand nine hundred and Eighty-three  
 Signed in the presence of

*[Signature]*

*[Signature]*  
 District Registrar  
 for Boissevain

*W. J. Archery*  
Form No. P.S.F.-1

57586

From No.

Transfer

Application

11662

		REGISTERED		
Mortgage for	The	day of		No.
\$		19	TO	
	at			
			Deputy District Registrar	
Mortgage for	The	day of		No.
\$		19	TO	
	at			
			Deputy District Registrar	
Mortgage for	The	day of		No.
\$		19	TO	
	at			
			Deputy District Registrar	
Mortgage for	The	day of		No.
\$		19	TO	
	at			
			Deputy District Registrar	
Mortgage for	The	day of		No.
\$		19	TO	
	at			
			Deputy District Registrar	

No. 86-3657  
 Withdrawal of Cases  
 No. 83-3219  
 30 April 1996

No. 89-682  
 Withdrawal of Cases  
 No. 85-1215  
 20 Jan 1998

No. 83-3219  
 Filed 8/25/95  
 District Registrar

No. 85-1215  
 Filed 8/25/95  
 District Registrar



(B) These notices entered in the description of the land included in a certificate shall be deemed to be attached unless the contrary is proved by a certificate of the Registrar or the Deputy District Registrar.

Address For Service  
Box 1151  
Brandon, Man  
R7A 6A4

# MANITOBA

**Certificate of Title**  
UNDER THE REAL PROPERTY ACT

Cert. No. 174326

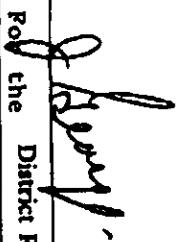
District Of **Brandon** Sworn Value: \$ **7,900.00** From Title: **55809 BO - part**  
Consideration: \$ **n/a** Instrument No.: **87-12344**

**GERALD ROBERT MACKAY**, of the City of Brandon, in Manitoba, Manager,  
as Executor of the Last Will of AGNES MURIEL MACKAY, late of the said City of Brandon, Widow, deceased,  
is registered owner, subject to such entries recorded hereon, in the following described land,

An undivided one-eighth interest in all mines and minerals  
in the following described land,  
as set forth in Deed No. 54008 BO Div:  
NW 1/4 1-1-26 WPM.

PHOTOCOPY MADE MAR 28 1995  
NOT A DUPLICATE ORIGINAL

Signed by me this 2nd day of November 1987.

  
For the District Registrar

Type	Instrument Number	Date	Land Transferred To	New C.T. Number	For the District Registrar

174326

Instrument Type	Number	Date	Target Registration	Particulars	For the District Registrar	Regn. #	Date	Discharges For District Registrar
C	83-25B0	83 01 05		Voyager Pet Ltd		89-1228	89 01 23	<i>[Signature]</i>
AC	85-421B0	85 01 31	83-25B0	To Voyager Petroleum (II) Ltd		89-1228	89 01 23	<i>[Signature]</i>
C	85-7327	85 07 09		Omega Hydrocarbons Ltd		89-1220	89 02 06	<i>[Signature]</i>
AC	86-6142	86 05 30	83-25B0	To Voyager Energy Inc.		89-1228	89 01 23	<i>[Signature]</i>

Duplicate Certificate of Title Issued

Request Number	Date	Recipient

- AC - Assignment of Caveat / cession de notification d'opposition
- Agri - Agreement to Amend or Extend Mortgage / convention de modification d'hypothèque
- BL - Builder's Lien / privilège du constructeur
- C - Caveat / notification d'opposition
- E - Easement / servitude
- J - Judgment / jugement
- L - Lien / privilège
- Misc - Miscellaneous / divers
- M - Mortgage / hypothèque
- MH - Mortgage of Mortgage / sous-hypothèque
- NEPS - Notice Exercising Power of Sale / avis de vente en exécution
- PDM - Partial Discharge of Mortgage / mainlevée partielle en matière d'hypothèque
- PL - Plan / plan
- PowlP - Postponement / subordination de charge
- PPS - Personal Property Security Notice / avis en matière de sûreté sur les biens personnels
- PWA - Party Wall Agreement / convention en matière de murs mitoyens
- PWC - Partial Withdrawal of Caveat / retrait partiel de notification d'opposition
- TM - Transfer of Mortgage / transfert d'hypothèque
- TS - Tax Sale / vente pour défaut de paiement de taxe
- WN - Withdrawal of Notice / retrait d'avis

Address For Service

Cert. No. 174327

# MANITOBA

**Certificate of Title**  
UNDER THE REAL PROPERTY ACT

District Of **Brandon**

Sworn Value: \$ **n/a**  
Consideration: \$ **n/a**

From Title: **55809 BO - ba1**  
Instrument No.: **87-12344**

ARTHUR MACDONALD PEARSON,  
of the City of Whitehorse, in the Yukon Territory, Biologist,  
is registered owner, subject to such entries recorded hereon, in the following described land,

An undivided one-eighth interest in all mines and minerals  
in the following described land,  
as set forth in Deed No. 54008 BO Div:  
NW 1/4 1-1-26 WPM.

**PHOTOCOPY MADE MAR 28 1995**  
**NOT A DUPLICATE ORIGINAL**

Signed by me this 2nd day of November 1987.

*[Signature]*  
For the District Registrar

Land Transferred To

New C.T. Number For the District Registrar

Type	Instrument		Land Transferred To	New C.T. Number	For the District Registrar
	Number	Date			

174327

Instrument Type	Number	Date	Target Registration	Particulars	For the District Registrar	Discharges		
						Regn. #	Date	For District Registrar
C	83-25B0	83 01 05		Voyager Pet Ltd		89-128	89 01 23	<i>[Signature]</i>
AC	85-421B0	85 01 31	83-25B0	To Voyager Petroleum (II) Ltd		89-128	89 01 23	<i>[Signature]</i>
C	85-7327	85 07 09		Omega Hydrocarbons Ltd		89-1220	89 02 06	<i>[Signature]</i>
AC	86-6142	86 05 30	83-25B0	To Voyager Energy Inc.		89-128	89 01 23	<i>[Signature]</i>

AC - Assignment of Caveat / assign de notification d'opposition  
 Agrt - Agreement to Amend or Extend Mortgage / convention de modification d'hypothèque  
 BL - Builder's Lien / privilège du constructeur  
 C - Caveat / notification d'opposition  
 E - Easement / servitude  
 J - Judgment / jugement  
 L - Lien / privilège  
 Misc - Miscellaneous / divers  
 M - Mortgage / hypothèque  
 MM - Mortgage of Mortgage / sous-hypothèque  
 NEPS - Notice Exercising Power of Sale / avis de vente en exécution  
 PDM - Partial Discharge of Mortgage / mainlevée partielle en matière d'hypothèque  
 PL - Plan / plan  
 Postp - Postponement / subordination de charge  
 PPS - Personal Property Security Notice / avis en matière de sûreté sur les biens personnels  
 PWA - Party Wall Agreement / convention en matière de murs mitoyens  
 PWC - Partial Withdrawal of Caveat / retrait partiel de notification d'opposition  
 TM - Transfer of Mortgage / transfert d'hypothèque  
 TS - Tax Sale / vente pour défaut de paiement de taxe  
 WN - Withdrawal of Notice / retrait d'avis

Duplicate Certificate of Title Issued

Request Number	Date	Recipient

Address For Service

P. O. Box 3827, 8th D  
Edmonton AB T5L 4J8

# MANITOBA

Certificate of Title  
UNDER THE REAL PROPERTY ACT

Cert. No. 215610

District Of Brandon

Sworn Value: \$1,778.00  
Consideration: \$n/a

From Title:  
Instrument No.: RPA 94-4389

CONVAIR OILS LTD.

is registered owner, subject to such entries recorded hereon, in the following described land,

PARCEL ONE: An undivided one-half interest in all petroleum, natural gas and related hydrocarbons other than coal in the following described land as set forth in Instrument No. 52530 BO Div: S4 6-1-25 WPM.

PARCEL TWO: An undivided one-half interest in all petroleum, natural gas and related hydrocarbons other than coal in the following described land as set forth in Instrument No. 52530 BO Div: NW4 6-1-25 WPM.

Signed by me this 15th day of June 1994.

Instrument Number Date  
Type

Land Transferred To

For the District Registrar  
*[Signature]*  
New C.T. Number  
For the District Registrar

PHOTOCOPY MADE MAR 28 1995  
NOT A DUPLICATE ORIGINAL

215610

Instrument	Type	Number	Date	Registration	Particulars	For the District Registrar	Regn. #	Date	Discharges For District Registrar
Misc		86-11248	86 09 22		Assignment; Canadian Imperial Bank of Commerce; LSDs 12 & 13 signed		94-10411	94 10 06	
Misc		87-9095	87 08 06		Utilization Order; Chevron Canada Res Ltd; LSDs 12 & 13 signed				
Misc		88-11411	88 10 26		Assignment; Royal Bank of Canada; LSDs 12 & 13 signed				
Misc		89-687	89 01 23		Trust Deed; Montreal Trust Co of Can; 84 signed				

Duplicate Certificate of Title Issued

Request Number \_\_\_\_\_ Date \_\_\_\_\_ Recipient \_\_\_\_\_

- AC - Assignment of Caves / cession de notification d'opposition
- AG - Agreement to Amend or Extend Mortgage / convention de modification d'hypothèque
- BL - Builder's Lien / privilège du constructeur
- C - Caves / notification d'opposition
- E - Easement / servitude
- J - Judgment / jugement
- L - Lien / privilège
- Misc - Miscellaneous / divers
- M - Mortgage / hypothèque
- ML - Mortgage of Mortgage / sous-hypothèque
- NEPS - Notice Exercising Power of Sale / avis de vente en exécution
- PDM - Partial Discharge of Mortgage / mainlevée partielle en matière d'hypothèque
- PL - Plan / plan
- PostP - Postponement / subordination de charge
- PT5 - Personal Property Security Notice / avis en matière de sûreté sur les biens personnels
- PWA - Party Wall Agreement / convention en matière de murs mitoyens
- PWC - Partial Withdrawal of Caves / retrait partiel de notification d'opposition
- TM - Transfer of Mortgage / transfert d'hypothèque
- TS - Tax Sale / vente pour défaut de paiement de taxe
- WN - Withdrawal of Notice / retrait d'avis