

Oil and Natural Gas Conservation Board

John E. Long - Chairman
 Wm. H. Smith - Deputy Chairman
 Eric E. Hall - Member

Waskada Lease, Arraville A Pool
 Expanded Pressure Maintenance - Waskada Unit No. 8

Omega Hydrocarbons Ltd. has made application for approval to expand its pressure maintenance operations in the subject Pool by conversion of additional well from producer to water injection well.

Notice of the application was published in the Manitoba Gazette (1936) and the Manitoba Herald (1936) and was forwarded to all affected neighboring interest owners. No objections to the application have been received.

Recommendations:

It is recommended that the application be approved, subject to the conditions of Board Order No. PM 45. A draft letter of approval is attached.

Discussion:

Board Order No. PM 45 empowers the Board to authorize injection into "such other wells as the Board may approve." Consequently, this application can be approved by a letter from the Board and does not require issuance of a new Board Order.

Omega is in the process of obtaining the consent of nearby owners to the enlargement of Waskada Unit No. 3. Water injection in the subject well should not proceed until the Unit enlargement becomes effective and affected nearby owners

Omaha Hydrocarbons Ltd
1300, 112-9 Ave. SW
Calgary, Alberta
T2E 0H3

Attention: Mr. G.E. Patey,
Vice President, Production

Dear Sir:

Re: Waskada Lower Amaranth A 33
Additional Water Injection Wells

Omaha Waskada 13-9-2-25 WPM

Your application for approval to convert the subject well to a water injector is hereby approved pursuant to the provisions of Board Order No. PM 45.

Please note that you are not authorized to commence injection operations until the Board has approved the enlargement of Waskada Unit No. 3.

Also, please note that subclause 1(4) of Board Order No. PM 45 stipulates that the completion of the wells will be as prescribed by the Director. You are consequently required to submit completed applications for each well to be converted (using form MG 41a) for approval of the proposed recompletion program, prior to conversion of the wells to injectors.

Very

Donna

Sent
May 29

Unit No. 8 - please send to :

- ✓ Andex Oil Co. Ltd.
- ✓ Romy Petroleum Ltd.
- ✓ Shell Oil Canada Limited
- ✓ United Canso Oil and Gas Ltd.
- ✓ Voyager Energy Company
- ✓ + Omega



The Oil and Natural Gas
Conservation Board

Room 309
Legislative Building
Winnipeg, Manitoba, CANADA
R3C 0V8

(204) 945-3130

NOTICE


WASKADA OIL FIELD

Omega Hydrocarbons Ltd., operator of the proposed enlarged Waskada Unit No. 8, has made application under "The Mines Act" to convert the following well to water injection:

Omega Waskada 13-9-2-25 (WPM)

If no objection or intervention in writing is received by the Board at Room 309, Legislative Building, Winnipeg, Manitoba, R3C 0V8, within 14 days of the publication of this notice, the Board may approve the application.

Dated at Winnipeg, this 26th day
of May, 1986.


Wm. McDonald, Deputy Chairman
The Oil and Natural Gas
Conservation Board

S-035-86 — Canadian Waterslides Ltd. — P.T.H. No. 1 — R.M. of Springfield

Application by Canadian Waterslides Ltd. for a permit for a Sign adjacent to P.T.H. No. 1, N.E. 1/4, Section 11-10-4 East, R.M. of Springfield.

S-038-86 — Connelly Signs — P.T.H. No. 59 — R.M. of St. Clements

Application by Connelly Signs for a permit for a Sign adjacent to P.T.H. No. 59, S.E. 1/4, Section 8-15-6 East, R.M. of St. Clements.

S-039-86 — Cargill Ltd. — P.T.H. No. 2 — R.M. of Grey

Application by Cargill Ltd. for a permit

for a Sign adjacent to P.T.H. No. 2, N.E. 1/4, Section 19-8-4 West, R.M. of Grey.

The Highway Traffic Board will be prepared to consider any submissions regarding the above applications at this hearing. Any person wishing to make a submission should either contact The Secretary at the hearing or forward their written submission in advance to: A. Poltaruk, Secretary, The Highway Traffic Board, Room 206-301 Weston Street, Winnipeg, Manitoba R3E 3H4.

Phone: 945-8912

A. Poltaruk, MMM CD

Secretary,

—23 THE HIGHWAY TRAFFIC BOARD.

UNDER THE MINES ACT**WASKADA OIL FIELD**

Omega Hydrocarbons Ltd., operator of the proposed enlarged Waskada Unit No. 3, has made application under "The Mines Act" to convert the following wells to water injection:

Omega Waskada Prov. A7-30-1-25 (WPM)

Omega Waskada 5-36-1-26 (WPM)

Omega Waskada 7-36-1-26 (WPM)

Omega Waskada 7-5-2-25 (WPM)

If no objection or intervention in writing is received by the Board at Room 309, Legislative Building, Winnipeg, Manitoba, R3C 0V8, within 14 days of the publication of this notice, the Board may approve the application.

Dated at Winnipeg, this 26th day of May, 1986.

WM. McDONALD,
Deputy Chairman,
The Oil and Natural Gas
Conservation Board.

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Dated at Winnipeg, this 26th day of May, 1986.

WM. McDONALD,
Deputy Chairman,
The Oil and Natural Gas
Conservation Board.

—23

UNDER APPLICATION TO THE LEGISLATURE

Applicants for Private Bills properly the subject of the Legislative Assembly of Manitoba should take notice of the following rule:

Notice of application for Private Bill

107(1) Every petitioner for a Private Bill shall publish, within twelve months prior to the presentation of the petition for the Private Bill.

(a) in one issue of the Manitoba Gazette; and

DEMANDES À LA LÉGISLATURE

Quiconque demande à l'Assemblée législative du Manitoba la présentation d'un projet de loi privé devrait prendre connaissance de la règle suivante:

Avis relatifs aux demandes de projet de loi privé

107(1) Les pétitionnaires publient, dans les 12 mois précédant la remise de la pétition, un avis rédigé selon la formule figurant à l'annexe A-1 et signé par eux ou en leur nom qui précise la nature et l'objet de la pétition, ainsi que les dispositions par-

(b) at least once in each of during the twelve month period tioned in an issue of a newspaper in the English language or the guage and having a general ci the area of the province in wh sons or a majority of the pe would be interested in or affe Private Bill reside; a notice, in the form set out "A-1", signed by or on behalf tioner and clearly and distinctl the nature and object of the peti exceptional provision prop inserted in the Bill.

For further particulars, a Clerk of the Legislative Assem tive Building, Winnipeg, Man 0V8) —23

NOTICE OF T

Take notice that Lt. Col. Fulton, D.S.O., E.D., Col. G. W son, Brig. Gen. George C. A A.D.C., Lt. Col. David Campl Norman R. Donough, C.D., Lt. I. James, Lt. Col. Hugh G. John C.D., David McFettridge, Co Gildas L. Molgat, C.D., Cap Thomas Saunders, C.D., Col. Scott, C.D., Lt. Col. Robert Q.C., Lt. Col. William R. Sper Col. Burton F. Waters, C.D., L Wainwright, C.D., Lt. Col. Werry, O.M.M., C.D., intend t

ne news

June 1, 1986

Mrs. Noreen Kropelin and Iona Ferguson motored to Winnipeg on Tuesday, May 27. Noreen visited with her aunt and uncle Mr. and Mrs. E. Harris while Iona visited with Mrs. Jon Lim, David, Karen, Leslie and Courtney and also with Mr. and Mrs. Harvey Gordon. They returned home to Deloraine on Friday.

Mr. and Mrs. Adam Ferguson (nee Florence Griffith) of Mission, B.C. are visiting with Mr. and Mrs. Howard Griffith. All are spending a few days visiting with relatives and friends in Saskatchewan. They plan to return to Deloraine at the end of the week.

Our area received eight millimetre of rain on Friday afternoon. Rain was needed for the crops, gardens, lawns

so let's hope this is a start.

The Evening Unit held their June meeting at Lou Hainsworth's home at Lake Metigoshe on Tuesday, June 3. Five carloads of ladies enjoyed the scenic drive and the visit at Lou's attractive home. Unit A also held their windup meeting at Lake Metigoshe on Tuesday evening. Everyone looks forward to these meetings at the Lake. Thanks to all who provided transportation.

Rev. Nancy Sanders attended the annual Conference of the United Church of Canada in western, Ontario.

Mac
attended the music recital at Deloraine-Winchester on June 1 at 2:00 p.m. Todd, pianist and

Valerie Klassen, soprano soloist with Greg Chase as accompanist. Michelle Todd is the daughter of Mr. and Mrs. R. Todd of Deloraine. It was an honor for Deloraine to have Michelle give this recital and everyone thoroughly enjoyed this afternoon of music offered by these three talented young people.

Deloraine also enjoyed another evening of music on Wednesday, June 4 when students of Mrs. Gerrie Kroeker performed at the Deloraine Theatre.

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Dated at Winnipeg, this 26th day of May, 1986.

Wm. McDonald, Deputy Chairman
The Oil and Natural Gas
Conservation Board

Obituary

FERN ELIZABETH MAGUIRE

Fern Elizabeth Maguire, beloved wife of Merle Maguire passed away Thursday, May 29, 1986 at Souris District Hospital after a lengthy illness.

Fern was born on September 22, 1923 at Westhall. She was educated to grade 9 at Westhall School and accomplished grade 10 and 11 by correspondence as well as a business course which she continued in Winnipeg in 1944. She then worked in an accountant office and as a dental assistant until her marriage on November 22, 1947 to Merle at the home of her parents Harry and Annie Hammond. Since then she was a partner in the family farm in the Elgin district.

Fern was a member of the United Church, teaching Sunday School and singing in the choir. She participated in many church committees and in other volunteer community work. With Merle she enjoyed many trips, music, dancing and friends. She enjoyed her family activities and was always concerned with helping others.

Fern is survived by her husband Merle, sons Trevor of Winnipeg and Larry, Beryl, their children Tim and Laura of Elgin; brothers Mel and Edna Hammond, Jack and Eva Hammond of Westhall; sister Marie and Jack Huxley of Neepawa and their families.

Funeral services were held at 2:00 p.m.,

interment at Elgin Cemetery conducted by Rev. Don McIntyre with soloist Joyce King. Active pallbearers were nephews Keith Hammond, Paul Hammond, Grant Maguire, David Maguire, Doug Maguire and cousin Brent Junkin. Honorary pallbearers were Gwen and Lorne Parker, Allan and Anne Rose, Jack and Margaret Tufts, Arne and Ada Dahl, Onela and Lorna Mireau, and Harold and Irma Spratt.

PROPERTIES FOR SALE

DELORAINE

*Acreage: 3 bedroom home located on approximately 5 acres; small barn, fenced.

- *207 KELLET ST. S. - 75' x 323 ft. serviced lot
- *302 BROADWAY AVE. N. - small 2 bedroom home; large lot.
- *119 MOUNTAIN ST. N. - 3 bedroom, bath on main floor, carpeted throughout, new windows, siding, insulation, deck at rear, corner lot.
- *115 CAVERS ST. S. - 3 bedroom home with attached garage and family room. Excellent location.
- *319 BROADWAY ST. S. - 3-bedroom home on roomy corner lot. Full basement, garage.
- *307 LOVETT ST. S. - A home with everything! Garage, sundeck, 2 bedrooms, LR has open beam ceiling and beautiful fireplace. Utilities off kitchen; lower fuel bills and lower taxes.
- *507 MORTON AVE. WEST - Excellent



301 MOUNTAIN ST. S. DELORAINE

One of Deloraine's Finest older homes! Featuring 4 bedrooms, large living room with fireplace



Date May 22, 1986

To The Oil and Natural Gas
Conservation Board

Charles S. Kang - Chairman
Wm. McDonald - Deputy Chairman
Bruce Ball - Member

Subject Waskada Lower Amaranth A Pool
Expanded Pressure Maintenance - Waskada U

Manitoba Petroleum Branch

Omega Hydrocarbons Ltd., as operator of the Waskada Unit No. 8, has applied for approval to expand its waterflood operations in the Unit by conversion of one additional well to a water injection well (Omega Waskada 13-9-2-25 WPM).

Recommendations:

It is recommended that notice of the application be published in the Manitoba Gazette and the Deloraine Times and Star and sent to the offsetting interest owners (see Table No. 2). A copy of the proposed notice is attached.

Discussion:

Omega has successfully conducted pressure maintenance by waterflooding in a major portion of the Waskada Lower Amaranth Pool for 3 years. In response to waterflooding, oil production rate decline has been arrested and in some cases, reversed to show an actual increase in oil production. Based on computer-simulated model studies of the waterflood operations in the Pool, it appears that waterflooding will result in up to 25% recovery of the oil-in-place. Under normal primary production operations, it is estimated that less than 10% of the oil-in-place can be recovered.

Figure No. 1 shows the present Unit No. 8 configuration along with the proposed expanded version.

Table No. 1 illustrates the severity of the primary production decline in the area and emphasizes the need for pressure maintenance operations. The Table lists average daily oil production in the first month in which each well produced at least 20 days and the corresponding producing rate for January, 1986 for each well. The average length of production is only about 14 months, but oil rates have declined to 40% of the initial values.

Omega has requested that Board Order No. PM 45 be amended to include the proposed expansion. However, Board Order No. PM 45 empowers the Board to authorize injection into "such other wells in the Unit Area as the Board may approve". It is therefore proposed to authorize the additional injection well by a letter of approval from the Board. A draft letter of approval will be forwarded to the Board following expiry of the notice period.

cont'd...

Table No. 2 lists working interest ownership in, and adjoining, the area of the proposed expansion. It is noted that working interest owners that are not a party of the Unit agreement have interests in offset lands that could be affected by the proposal. Therefore, it is recommended that the notice be published and also sent to the affected working interest owners. A proposed notice is attached.

Original Signed by H. C. Moster

H. Clare Moster
Director, Petroleum Branch

MA/dh

TABLE No. 1
WASKADA UNIT NO. 8 EXPANSION
PRIMARY PRODUCTION DECLINE

Well	Initial Oil Rate (m ³ /d)*	Initial Month	Months Produced	Current Oil Rate (m ³ /d) (Jan/86)
8-8-2-25	2.82	06-85	8	1.34
11-9-2-25	3.62	11-85	3	2.84
12-9-2-25	2.02	08-84	18	0.71
13-9-2-25	6.34	07-85	7	2.18
14-9-2-25	2.63	02-83	36	0.31
Total	17.43		72	7.38
Avg per well	3.49		14.4 1.2 yrs.	1.48

* calculated for first month in which the well produced for 20 or more days.

TABLE NO. 2

WASKADA UNIT NO. 8 EXPANSION

OFFSETTING WORKING INTEREST OWNERSHIP

<u>Working Interest Owner</u>	<u>Area of Interest</u>
Andex Oil Co. Ltd.	E $\frac{1}{2}$ 9-2-25
Roxy Petroleum Ltd.	E $\frac{1}{2}$ 9-2-25
Shell Oil Canada Limited	SW $\frac{1}{4}$ 16-2-25 SE $\frac{1}{4}$ 17-2-25
United Canso Oil & Gas Ltd.	SW $\frac{1}{4}$ 16-2-25 SW $\frac{1}{4}$ 9-2-25
Voyager Energy Company	E $\frac{1}{2}$ 9-2-25

FIGURE NO.1

Legend: ● PRODUCER

⊙ WATER INJECTION

● PROPOSED WATER INJECTOR

□ PRESENT UNIT NO. 8
▨ EXPANDED UNIT NO. 8
ADDITIONAL TRACTS

NOTE: ONLY LOWER AMARANTH WELLS IN UNIT NO. 8 ARE SHOWN ON MAP.

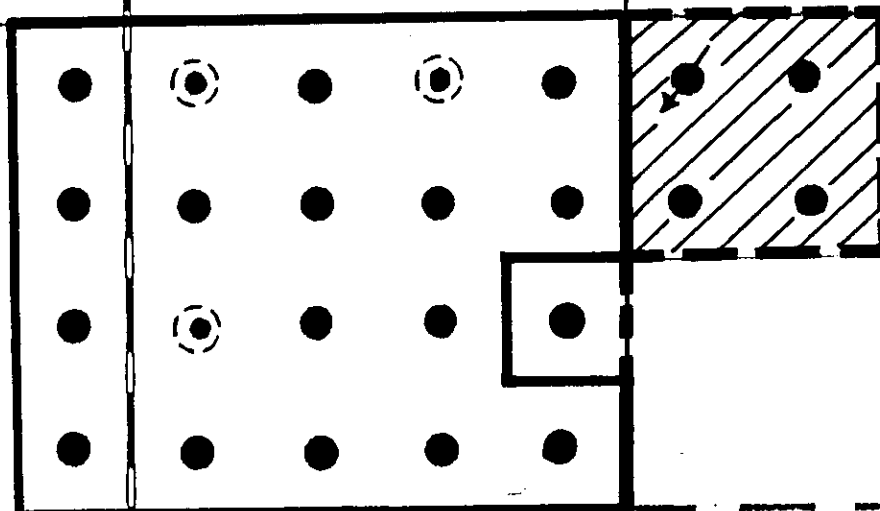
Range 25

TWP 2

Waskada

CANADIAN

PAC





The Oil and Natural Gas
Conservation Board

Room 309
Legislative Building
Winnipeg, Manitoba, CANADA
R3C 0V8

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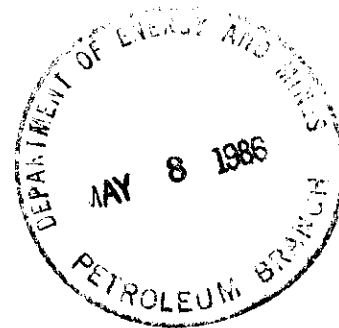
Dated at Winnipeg, this day
of , 1986.

Wm. McDonald, Deputy Chairman
The Oil and Natural Gas
Conservation Board



1300 SUN LIFE PLAZA III
112 - 4TH AVENUE S.W.
CALGARY, ALBERTA, CANADA T2P 0H3
TELEPHONE (403) 261-0743

May 2, 1986



The Oil and Natural Gas
Conservation Board
309 Legislative Building
450 Broadway Avenue
Winnipeg, Manitoba
R3C 0V8

Attention: Mr. Charles S. Kang
Chairman

Dear Sir:

Re: Waskada Lower Amaranth A Pool
Expansion of Pressure Maintenance Operations

The purpose of this submission is to request that PM Order No. 45 be amended to include the additional areas contained within the currently proposed expansion of Waskada Unit No. 8. The expanded Unit consists of 5 new tracts containing Lower Amaranth wells 8-8, 11-9, 12-9, 13-9 and 14-9-2-25 WPM. The Unit expansion documents have been circulated to all the parties involved for their signatures and have also been submitted to the Manitoba Government for approval. Pursuant to Section 1, Subsection (1) of the Pressure Maintenance Rules contained in PM Order No. 45, Omega Hydrocarbons Ltd. requests permission to inject water into well;

Omega Waskada 13-9-2-25 WPM

As operator of both the existing pressure maintenance schemes and the proposed expansion area we plan to continue operating in accordance with the current pressure maintenance rules. Therefore, prior to the commencement of water injection a bottomhole pressure measurement will be taken at the proposed injector. A maximum allowable wellhead pressure of 10,000 kPa will be set for the new water injection well and the additional production/injection data will be reported monthly in the same manner as the existing schemes.

Corrosion-prevention methods within the waterflood expansion area will include cathodic protection, internally coated flowlines and well treatments. In an effort to extend the life of the water injection system all injection lines and injection well tubing strings will be internally coated. Regular chemical treatments (XC-320) at each production well are also planned to combat bacterial corrosion which has been an ongoing problem at Waskada.

At present, both produced water plus makeup water from the Blairmore formation is being used for injection purposes. Current water production has been averaging 970m³/d while the four (4) existing source water wells are capable of producing an additional 1100m³/d of water. These volumes will be sufficient for handling the injection requirements within the existing waterflood areas as well as the proposed expansion area. Water compatability tests have previously been conducted and were submitted in the original waterflood application.

In further support of this submission please find attached the following information:

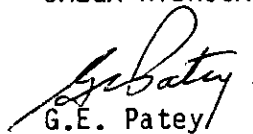
- 1) Lessor Map of the Expansion Area
- 2) Lessee Map of the Expansion Area
- 3) Well Status Summary
- 4) Surface Lease Owner Notification
- 5) Schematic Diagram of the Existing Water Injection System

Should you have any comments or questions related to the submission, please contact Mr. Bob Beamish or Mr. Richard Brekke at (403) 261-0743.

We would appreciate your earliest attention to this matter.

Yours truly,

OMEGA HYDROCARBONS LTD.



G.E. Patey
Vice-President, Production

RAB:vb

Encl.

c.c. R. Dubreuil - Manitoba Petroleum Branch
R.A. Beamish
Waskada (LAm) Waterflood Approvals File

Lessor Map In and Adjoining
The Proposed Expansion Area

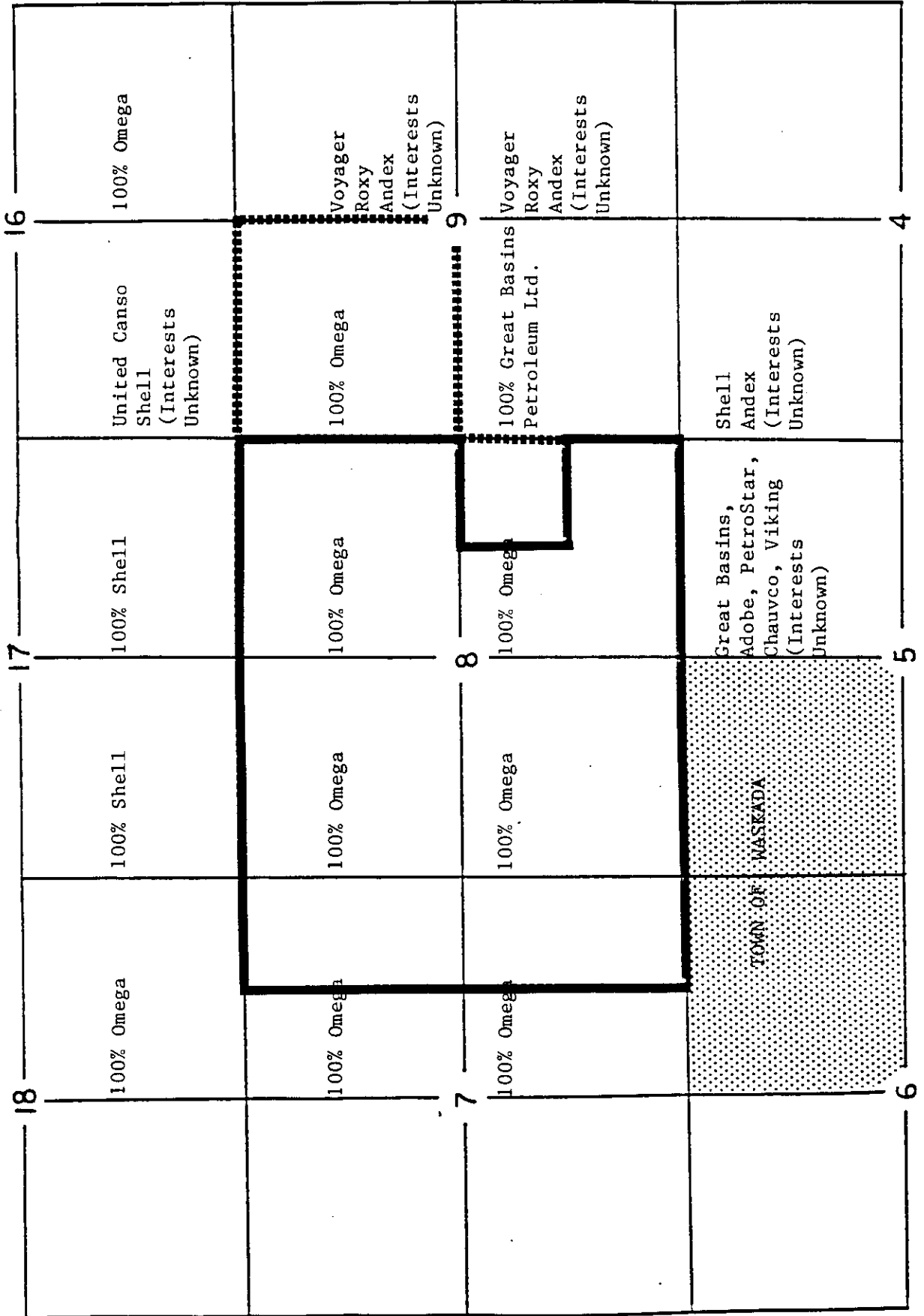
RGE 25 WPM

18	100% Manitoba Department of Energy & Mines	100% M&J Minerals Inc.	100% M&J Minerals Inc.	100% Manitoba Department of Energy & Mines	100% F.H. Griffith Holdings Inc.
7	75% Hannah Minerals Inc. 25% S.J. McPhail	50% Stewart Minerals Inc. 50% J.T. Sands	100% Wricada Resources Ltd.	100% Waskada Plains Enterprises Ltd.	100% Tempella Resources Ltd.
6	50% Stewart Minerals Inc. 50% J.T. Sands	100% Wricada Resources Ltd.	100% Wricada Resources Ltd.	100% Patlet Ventures Ltd.	100% Tempella Resources Ltd.
				100% Manitoba Department of Energy & Mines	

TWP 2

Lessee Map In and Adjoining
The Proposed Expansion Area

RGE 25 WPM



TWP 2

Well Status Summary
For Well In and Adjoining
The Proposed Expansion Area

<u>Well</u>	<u>Completed Zone</u>	<u>Status</u>
1-8-2-25 WPM	Lower Amaranth	Producing Oil Well
2-8-2-25 WPM	Lower Amaranth	Producing Oil Well
7-8-2-25 WPM	Lower Amaranth	Producing Oil Well
8-8-2-25 WPM	Lower Amaranth	Producing Oil Well
9-8-2-25 WPM	Lower Amaranth	Producing Oil Well
10-8-2-25 WPM	Lower Amaranth	Producing Oil Well
16-8-2-25 WPM	Lower Amaranth	Producing Oil Well
4-9-2-25 WPM	Lower Amaranth	Producing Oil Well
5-9-2-25 WPM	Lower Amaranth	Producing Oil Well
10-9-2-25 WPM	Unknown	Unknown
11-9-2-25 WPM	Lower Amaranth	Producing Oil Well
12-9-2-25 WPM	Lower Amaranth	Producing Oil Well
13-9-2-25 WPM	Lower Amaranth	Producing Oil Well
14-9-2-25 WPM	Lower Amaranth	Producing Oil Well
15-9-2-25 WPM	Unknown	Unknown
4-16-2-25 WPM	Lower Amaranth	Producing Oil Well
1-17-2-25 WPM	Lower Amaranth	Producing Oil Well



1300 SUN LIFE PLAZA III
112 - 4TH AVENUE S.W.
CALGARY, ALBERTA, CANADA T2P 0H3
TELEPHONE (403) 261-0743

May 6, 1986

Waskada Unit No. 8 Expansion
Surface Owners
(addressee list attached)

Dear Sir/Madam:

Re: Waskada Unit No. 8 Expansion
Sections 8 and 9, Twp 2, Rge 25 WPM

The purpose of this letter is to inform you that Omega Hydrocarbons Ltd. intends to expand the existing pressure maintenance scheme into Sections 8 and 9, Twp 2 Rge 25 WPM. The well locations included in the proposed expansion are 8-8, 11-9, 12-9, 13-9 and 14-9-2-25 WPM.

The expanded pressure maintenance scheme will involve the injection of produced water into well 13-9-2-25 WPM to maintain reservoir pressure and "sweep" oil towards the offsetting production wells. The performance of the waterflood will be evaluated by continually monitoring injection and production data. A decision regarding future development drilling and further waterflood expansions in this area will be based on the results of this project.

If you have any comments or questions related to the proposed project please contact either Mr. Bob Beamish or Mr. Richard Brekke at (403) 261-0743.

Yours truly,

OMEGA HYDROCARBONS LTD.



G.E. Patey

Vice President, Production

RAB:vb

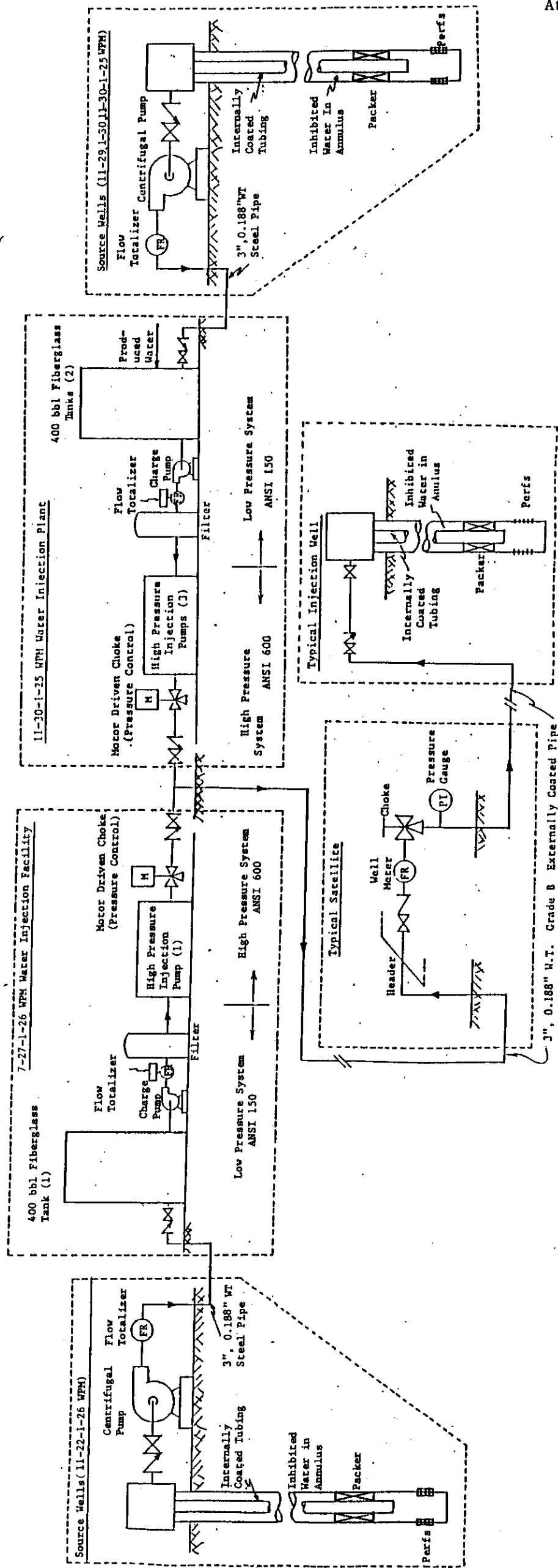
c.c. Waskada Unit No. 8 File
Land Dept.

Maskada Unit No. 8 Expansion
Surface Owners
Addressee List

George Purvis McGregor
Waskada, Manitoba
ROM 2EO


Sara Wright
Box 528
120 Broadway North
Deloraine, Manitoba
ROM OMO

SCHEMATIC DIAGRAM OF THE EXISTING WATER INJECTION SYSTEM



(204) 945-3130

WASKADA OIL FIELD


Wm. McDonald, Deputy Chairman
The Oil and Natural Gas
Conservation Board



Action / Route Slip

Date: May 9, 1986

To: Clare Moster

Petroleum Branch

re: Waskada Unit No. 8

From: Office of the Deputy Minister
Manitoba Energy and Mines
Room 309
Legislative Building
Winnipeg, Manitoba
R3C 0V8

☐ Take Action

☐ Per Your Request

☐ Circulate, Initial
and Return

☐ For Approval and
Signature

☐ Make _____ Copies

☐ May We Discuss

☐ For Your Information

☐ Return With Comments
or Revisions

☒ Draft Reply for
Signature

☐ Please File

Chairman

Comments

Thanks

Rose

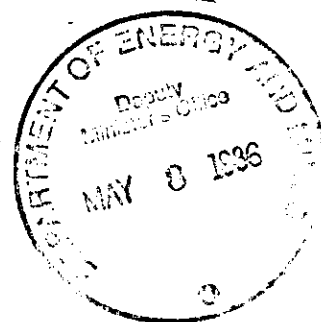


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TELEPHONE (403) 261-0743

May 2, 1986

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309 Legislative Building
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R3C 0V8

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G.E. Patey
Vice-President, Production

RAB:vb

Encl.

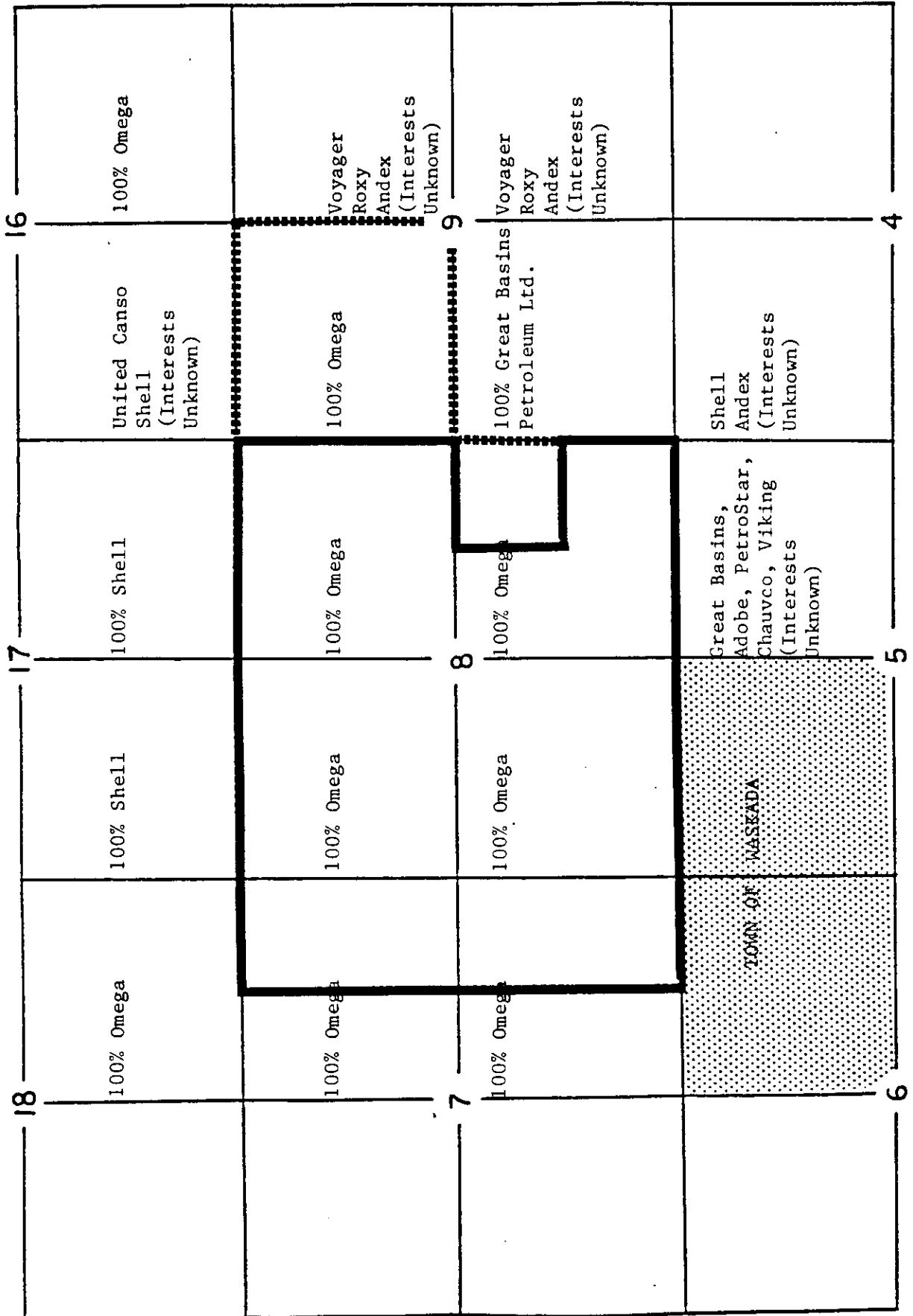
c.c. R. Dubreuil - Manitoba Petroleum Branch
R.A. Beamish
Waskada (LAm) Waterflood Approvals File

Lessor Map In and Adjoining
The Proposed Expansion Area

RGE 25 WPM

18	17	16
100% Manitoba Department of Energy & Mines	100% M&J Minerals Inc.	100% Manitoba Department of Energy & Mines
75% Hannah Minerals Inc. 25% S.J. McPhail	50% Stewart Minerals Inc. 50% J.T. Sands	100% Waskada Plains Enterprises Ltd.
50% Stewart Minerals Inc. 50% J.T. Sands	100% Wricada Resources Ltd.	100% Tempella Resources Ltd.
TEXON OF WASKADA	100% Patlet Ventures Ltd.	100% Manitoba Department of Energy & Mines
7	8	9
6	5	4

TWP 2



Waskada Unit No. 8 Boundary

Expansion Area

Well Status Summary
For Well In and Adjoining
The Proposed Expansion Area

<u>Well</u>	<u>Completed Zone</u>	<u>Status</u>
1-8-2-25 WPM	Lower Amaranth	Producing Oil Well
2-8-2-25 WPM	Lower Amaranth	Producing Oil Well
7-8-2-25 WPM	Lower Amaranth	Producing Oil Well
8-8-2-25 WPM	Lower Amaranth	Producing Oil Well
9-8-2-25 WPM	Lower Amaranth	Producing Oil Well
10-8-2-25 WPM	Lower Amaranth	Producing Oil Well
16-8-2-25 WPM	Lower Amaranth	Producing Oil Well
4-9-2-25 WPM	Lower Amaranth	Producing Oil Well
5-9-2-25 WPM	Lower Amaranth	Producing Oil Well
10-9-2-25 WPM	Unknown	Unknown
11-9-2-25 WPM	Lower Amaranth	Producing Oil Well
12-9-2-25 WPM	Lower Amaranth	Producing Oil Well
13-9-2-25 WPM	Lower Amaranth	Producing Oil Well
14-9-2-25 WPM	Lower Amaranth	Producing Oil Well
15-9-2-25 WPM	Unknown	Unknown
4-16-2-25 WPM	Lower Amaranth	Producing Oil Well
1-17-2-25 WPM	Lower Amaranth	Producing Oil Well



1300 SUN LIFE PLAZA III
112 - 4th AVENUE S.W.
CALGARY, ALBERTA, CANADA T2P 0H3
TELEPHONE (403) 261-0743

May 6, 1986

Waskada Unit No. 8 Expansion
Surface Owners
(addressee list attached)

Dear Sir/Madam:

**Re: Waskada Unit No. 8 Expansion
Sections 8 and 9, Twp 2, Rge 25 WPM**

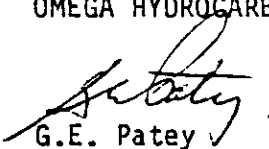
The purpose of this letter is to inform you that Omega Hydrocarbons Ltd. intends to expand the existing pressure maintenance scheme into Sections 8 and 9, Twp 2 Rge 25 WPM. The well locations included in the proposed expansion are 8-8, 11-9, 12-9, 13-9 and 14-9-2-25 WPM.

The expanded pressure maintenance scheme will involve the injection of produced water into well 13-9-2-25 WPM to maintain reservoir pressure and "sweep" oil towards the offsetting production wells. The performance of the waterflood will be evaluated by continually monitoring injection and production data. A decision regarding future development drilling and further waterflood expansions in this area will be based on the results of this project.

If you have any comments or questions related to the proposed project please contact either Mr. Bob Beamish or Mr. Richard Brekke at (403) 261-0743.

Yours truly,

OMEGA HYDROCARBONS LTD.



G.E. Patey

Vice President, Production

RAB:vb

c.c. Waskada Unit No. 8 File
Land Dept.

Waskada Unit No. 8 Expansion
Surface Owners
Addressee List

George Purvis McGregor
Waskada, Manitoba
ROM 2E0

Sara Wright
Box 528
120 Broadway North
Deloraine, Manitoba
ROM 0M0

SCHEMATIC DIAGRAM OF THE EXISTING WATER INJECTION SYSTEM

