



CHEVRON STANDARD LIMITED

400 FIFTH AVENUE S.W., CALGARY 1, ALBERTA

January 15, 1970

The Oil and Natural Gas Conservation Board
Department of Mines and Natural Resources
Province of Manitoba
Winnipeg 1, Manitoba

Attention: Mr. W. Winston Mair, Chairman

Gentlemen:

Chevron Standard Limited, as Unit Operator of Virden-Roselea Unit No. 2, under and pursuant to The Mines Act, Revised Statutes of Manitoba, 1954 and Amendments thereto, hereby, on behalf of the Working Interest Owners in Virden-Roselea Unit No. 2, and on behalf of the following:

Bralorne Petroleums Limited

Chevron Standard Limited

Tri-West Petroleums Ltd.

requests the Oil and Natural Gas Conservation Board to hold a hearing to consider and approve the following:

1. Proposal for Unit Enlargement and Expansion of Water Injection System - Virden-Roselea Unit No. 2, pursuant to Section 76 of The Mines Act.
2. Application for a Maximum Permissible Rate of Production for the Enlargement Tracts, pursuant to Section 59 of The Mines Act.

3. Amendment to Part XXVI, Clause 26.07 (k) (iii) (a) of the "Plan For Unit Operation Governing The Unitized Management Operation and Further Development of Virден-Roselea Unit No. 2" pursuant to Part VI, Clause 6.03 (j) of the above "Plan" and also Section 75 (3) of The Mines Act.
4. Amendment to Part V, Clause 5.06 of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virден-Roselea Unit No. 2," pursuant to Section 75 (3) of The Mines Act.

In support of this application, we will endeavour to file with the Board, consents to this application signed by at least 75% of the Working Interest Owners in Virден-Roselea Unit No. 2 and consents to the application for enlargement only, by at least 75% of the owners of the royalty interest and working interest in the enlargement tracts.

An early consideration of our request would be greatly appreciated.

Respectfully submitted,

for *Alvin PENG*
L. D. BROWN, Chairman
Virден-Roselea Unit No. 2
Operating Committee

SNB/cs

A. Proposal for Unit Enlargement of Virden-Roselea Unit No. 2

It is proposed that the following tracts be included in Virden-Roselea Unit No. 2 by means of an enlargement: (See Figure 1)

LSD 7- 5-11-25 WPM

LSD 9- 5-11-25 WPM

LSD 10- 5-11-25 WPM

LSD 15- 5-11-25 WPM

LSD 16- 5-11-25 WPM

LSD 12- 6-11-25 WPM

LSD 13- 6-11-25 WPM

LSD 5- 7-11-25 WPM

LSD 6-36-10-26 WPM

LSD 8- 1-11-26 WPM

LSD 9- 1-11-26 WPM

LSD 10- 1-11-26 WPM

LSD 15- 1-11-26 WPM

LSD 16- 1-11-26 WPM

LSD 1-12-11-26 WPM

LSD 2-12-11-26 WPM

LSD 7-12-11-26 WPM

LSD 8-12-11-26 WPM

The above tracts adjoin the present Virden-Roselea Unit No. 2 area, and have wells situated thereon which are completed in the producing horizon that is a lateral extension of the formation that is unitized in Virden-Roselea Unit No. 2. Wells with uneconomic primary producing

potential are being included in the enlargement because of favorable location to contribute future secondary oil and operation flexibility. One of these uneconomic primary wells, 7-5-11-25, will be directly offset by a proposed injection well. Two other presently uneconomic wells, 2-12-11-26 and 7-12-11-26, are located in the northwest portion of the proposed enlarged unit. Recent production increases experienced at Lsd's 3 and 4 of 7-11-25 suggest that the flood front is moving in this direction. In addition to having secondary oil potential, both 2-12 and 7-12, which are presently uneconomic to produce because of high water production, may become economic producers when they are tied-in to unit salt water disposal facilities.

The wells in the proposed enlargement area have a wide range of production capabilities, as well as production histories. The first wells drilled in NE $\frac{1}{4}$ of Section 5 have been on production since 1965. The most recent wells, 10-1 and 5-7, have produced since October 1968.

Tract Participation

Part III of the "Plan for Unit Operations Governing the Unitized Management Operation and Further Development of Virden-Roselea Unit No. 2" discloses the method originally used for determining tract participation for each tract as one-half (1/2) of each of the following:

- (a) a current production factor
- (b) a penalized average monthly oil production factor.

Factors considered in providing an equitable participation basis for enlargement were:

1. The original 37 well unit will have produced for over 3-1/2 years under secondary recovery operations at the time of enlargement.
2. As of year end 1969, the enlargement wells will have produced less than 3 percent of their original oil-in-place, whereas the original unit has produced 13.7 percent of its original oil-in-place.
3. The primary reserves of the original unit are at an advanced stage of depletion. Only 1/3 of the primary reserves for the enlargement tracts will have been produced.

The following summary presents the participation basis for the 18 enlargement tracts:

- (a) Tracts 9-5, 10-5, 15-5, 16-5, 12-6, 13-6, 8-1, 9-1, 10-1, 15-1, 16-1, 1-12, and 8-12:
 - formula used in the original unit with an October 1, 1968 to March 31, 1969 inclusive current production period and a cumulative production to March 31, 1969.
- (b) Tracts 5-7 and 6-36:
 - formula used in the original unit with a March 1, 1969 to August 31, 1969 inclusive current production period and cumulative production to August 31, 1969.
- (c) Tracts 7-5, 2-12 and 7-12:
 - participation factor of 0.10000 percent

Production disruptions in various enlargement wells due to flooding conditions necessitated choosing the six month interval ending March 31, 1969 as the current production period. A March 1, 1969 to August 31, 1969 period was used for 6-36-10-26 and 5-7-11-25, since both wells were not produced continuously during the winter months. The current production period for the 37 well unit was May 1, 1965 to October 31, 1965, the same interval used in the original formation of Virden-Roselea Unit No. 2. The end of the cumulative production period for Virden-Roselea Unit No. 2 tracts was October 31, 1965.

The participation factors assigned to tracts 7-5, 2-12, and 7-12 recognize the risk involved in bringing these wells into the unit. Since they are incapable of economic primary production, and have insufficient production histories for a production type formula to be applicable, the tracts on which these wells are located have been assigned a participation factor in recognition of potential future secondary oil and operation flexibility which they may contribute to the unit.

Using the participation basis discussed above, the resultant tract participation factors for the enlargement tracts are as follows:

| <u>Tract Number</u> | <u>Tract Participation</u> |
|---------------------|----------------------------|
| 7- 5 | .10000 |
| 9- 5 | .64269 |
| 10- 5 | 1.63506 |
| 15- 5 | 2.98609 |
| 16- 5 | .92105 |

| <u>Tract Number</u> | <u>Tract Participation</u> |
|---------------------|----------------------------|
| 12- 6 | 4.92991 |
| 13- 6 | 1.58022 |
| 5- 7 | .36929 |
| 6-36 | .22309 |
| 8- 1 | 1.21525 |
| 9- 1 | 3.02750 |
| 10- 1 | 1.86657 |
| 15- 1 | 1.13251 |
| 16- 1 | 5.26741 |
| 1-12 | 2.72027 |
| 2-12 | .10000 |
| 7-12 | .10000 |
| 8-12 | 3.87810 |

The total participation of the eighteen enlargement tracts in the enlarged unit would be 32.69501 percent. It is proposed that upon these tracts being admitted into Virden-Roselea Unit No. 2 area, the Tract Participations of all tracts within the Unit area prior to enlargement and after enlargement will remain the same one to the other by multiplying each of the Tract Participations by the factor 1.000000 - 0.3269501 or 0.6730499.

Production and Reserves

Figure 2 represents the production history of the eighteen wells on the proposed enlargement tracts and a forecast of primary performance for these wells. The peak production for the enlargement area was

210 BOPD, the rate reached in July 1968. The current rate is 170 BOPD cutting 51 percent water.

The benefit to the present Unit from the proposed enlargement is demonstrated on Figure 3. The predicted oil production rate of the existing Unit is compared with the forecast production rate for the enlarged Unit. This increase in production rate will result from extending the injection system to include the wells on tracts 10-5, 12-6 and 4-7 as injectors. The estimated original oil-in-place in the enlargement area is 7,000,000 barrels. The predicted ultimate recovery, as part of the Unit, from this area is estimated at 1,850,000 barrels, of which 579,000 barrels are primary reserves. The estimated allocable reserves to the enlargement area, as part of the Unit, as of December 31, 1969, is 1,535,000 barrels. Since the remaining primary reserves are only 389,000 barrels, it is attractive for both the Working Interest Owners and Royalty Owners of the enlargement tracts to enter the Unit.

The incentive for the Working and Royalty Interest Owners in the existing Unit, to enlarge the Unit, is in the form of additional oil recovery as a result of improved sweep efficiency within the Unit area.

Enlargement Tract Requirements

Upon the proposed enlargement tracts being admitted to the Unit, it is proposed that the Working Interest Owners of these enlargement tracts participate in the investment account established by Part X of the "Plan For Unit Operation Governing The Unitized Management Operation and Further Development of Virden-Roselea Unit No. 2," dated April 1, 1966, as of the effective date of this enlargement.

It is proposed that the Working Interest Owners of the enlargement tracts make cash payment to the joint account for their proportionate share of all expenditures other than operating expenditures incurred subsequent to the effective date of Virden-Roselea Unit No. 2, plus their proportionate share of all pre-unit and inventory costs incurred and approved by the Virden-Roselea Unit No. 2 Working Interest Owners.

Water Injection System Expansion

It is proposed that the wells on tracts 10-5, 12-6 and 4-7 be converted to water injection after the Unit is enlarged (See Figure 1).

Injectivity in the north half of Section 5 is moderately low, with a 5 spot pattern in effect in the area. Conversion of 10-5 will conform with this pattern, and will add approximately 120 BWPD of injection to the area.

Conversion of two wells to injection will be necessary to effectively waterflood the area of the twelve tracts being added to the northwest portion of the Unit. It is proposed that 12-6-11-25 and 4-7-11-25 be converted to water injection wells. The anticipated injectivities are 350 BWPD and 200 BWPD respectively. The conversion procedure that was used in previous injection well conversions in the Unit will be used.

The injection system expansion will require laying a 2" plastic-coated cement-lined steel injection line from the well on tract 14-5 to the well on tract 10-5. A similar 2" line will be installed from the injection plant located at 2-6-11-25 to the well on tract 12-6, and

on to the well on tract 4-7. A 4" PVC line will be installed between Virden-Roselea Unit No. 1 and Virden-Roselea Unit No. 2 in order to supplement the present injection water supply. It is anticipated that an additional 1,000 BWPD will become available to Virden-Roselea Unit No. 2 as a result of the installation of this line.

3. Application For A Maximum Permissible Rate of Production For Wells on the Enlargement Tracts

The applicants propose that the same production flexibility that has been permitted for the original Virden-Roselea Unit No. 2 also be provided for the enlarged Unit.

Currently, the production at all the enlargement tracts may be considered to be unrestricted since all the wells on these tracts are producing at capacity. It is the applicants' contention that no reservoir damage has resulted from producing these wells at capacity.

By being included in the waterflood project it is anticipated that the productive capacity of certain of the wells on the enlargement tracts will be significantly increased. There is no reason to believe that reservoir damage, either within the Unit area or outside the Unit area, would result from producing these increased capacity wells at unrestricted rates.

It is the applicants' contention that producing wells on the enlargement tracts, when offset by non-unit producing wells, should also be allowed to produce at unrestricted rates. There is no reason to believe that non-unit oil would be produced within the Unit by such a practise since the Unit well capacities would increase only as a direct result of the unitized waterflood and therefore the increased production would be made up of oil from within the Unit area only. There is also no reason to believe that the production at future offsetting non-unit wells would be affected by the production of the new Unit boundary wells at unrestricted rates.

The applicants respectfully request that, on and after the effective date of the Unit enlargement, the wells on the tracts brought in by the enlargement be excluded from any provisions governing the limitations of oil production.

C. Amendment to Part XXVI, Clause 26.07 (k) (iii) (a) of the "Plan For Unit Operation Governing The Unitized Management Operation and Further Development of Virden-Roselea Unit No. 2"

The Unit Operator has reviewed the district and administrative overhead charges to the Unit under Part XXVI, Clause 26.07 (k) (iii) (a) of the "Plan" resulting from the proposed addition of eighteen wells to the 37 well Unit. The result of this review is a proposed increase of \$900 per month.

Approval to increase the charges, under the subject clause, by \$900 per month to a new total of \$3,450 per month was obtained at an Operating Committee meeting held on November 4, 1969. It is therefore requested that the "Plan" be amended by replacing the wording in Part XXVI, Clause 26.07 (k) (iii) (a) with the following:

"\$3,450 per month for all producing operations."

Pursuant to Part VI, Clause 6.03 (j) of the "Plan" and Section 75 (3) of The Mines Act, the applicants hereby respectfully request the Board to consider and approve the proposed district and administrative overhead charges and proposed amendment to the plan, in conjunction with the proposed Unit enlargement.

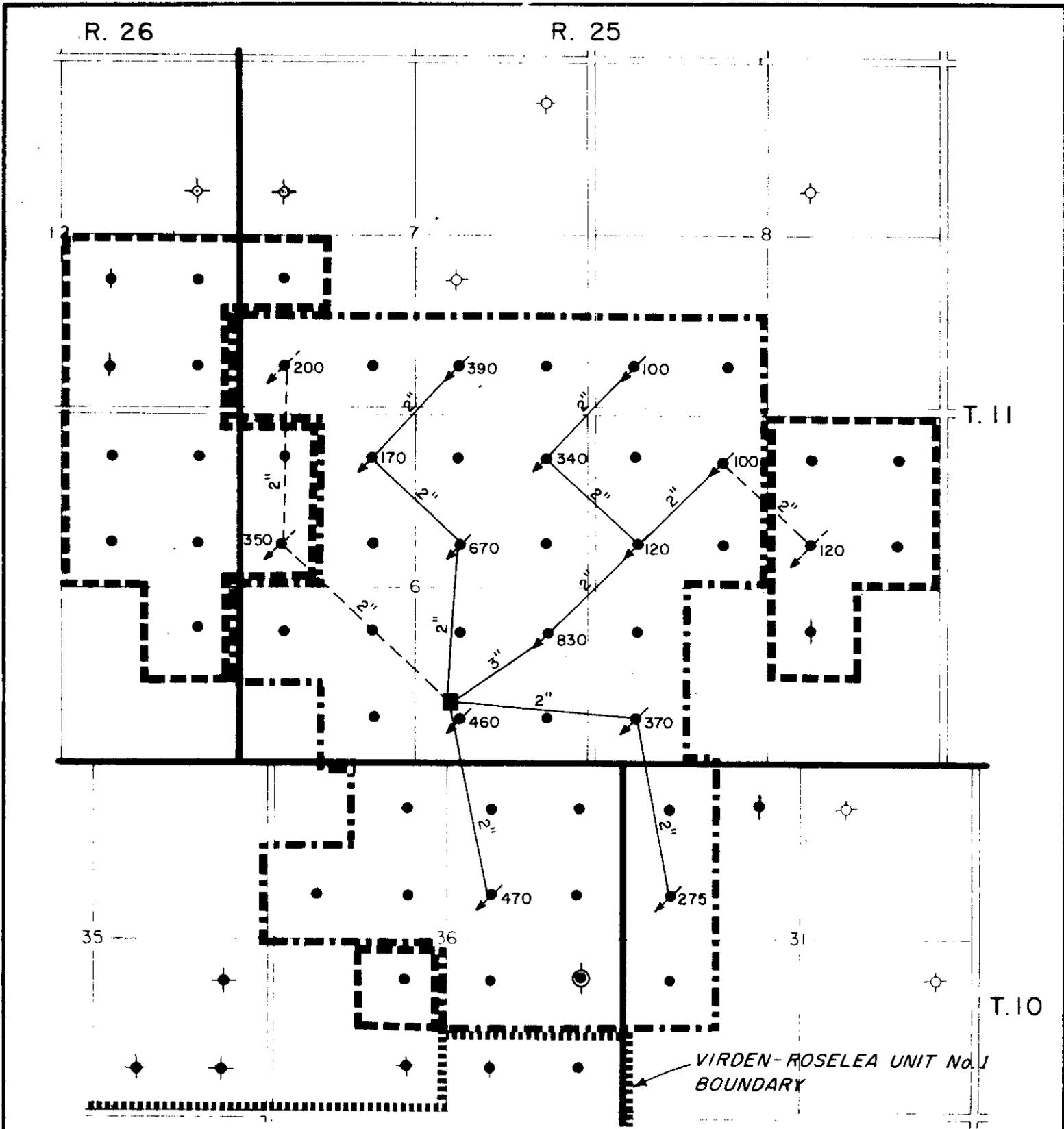


FIGURE 1

VIRDEN ROSELEA UNIT No. 2
AND PROPOSED ENLARGEMENT

- | | | | |
|---------|-----------------|--------|---------------------------------------|
| ■ | INJECTION PLANT | 200 | INJECTION RATE, BWPD |
| — 2" — | INJECTION LINE | --- | PROPOSED ENLARGEMENT OF UNIT BOUNDARY |
| --- --- | UNIT BOUNDARY | — 2" — | PROPOSED INJECTION LINE, SIZE |
| ⊙ | INJECTION WELL | ⊙ | PROPOSED INJECTION WELL |
| ⊙ | S.W.D. WELL | | |

Scale: 1" = 2000'

FIGURE 2

COMPARISON OF
PREDICTED OIL RECOVERY PERFORMANCE OF PROPOSED
ENLARGEMENT TRACTS ON PRIMARY DEPLETION BASIS
VERSUS
PRODUCTION ALLOCABLE TO ENLARGEMENT TRACTS BY INCLUSION IN VIRDEN - ROSELEA UNIT No. 2

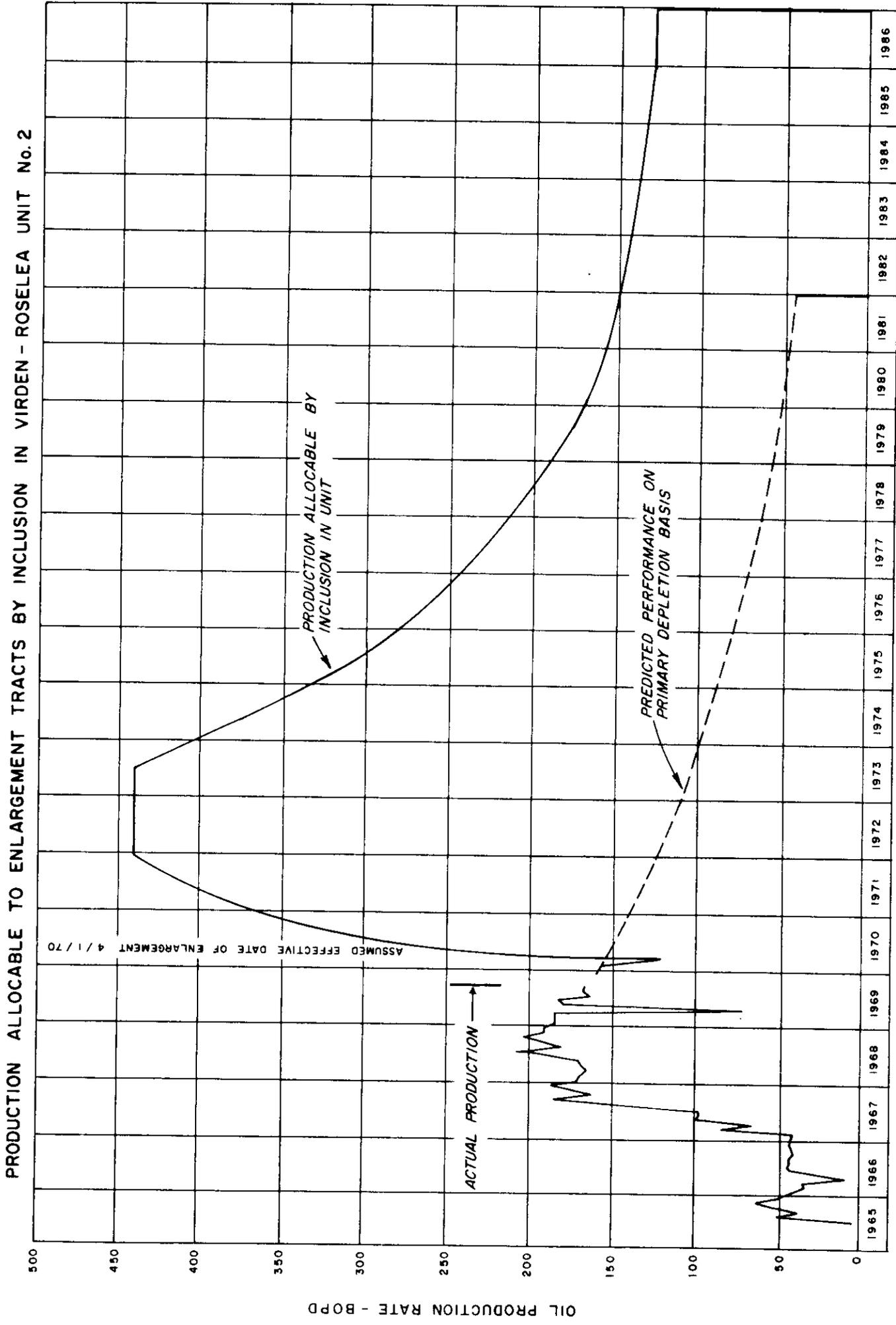
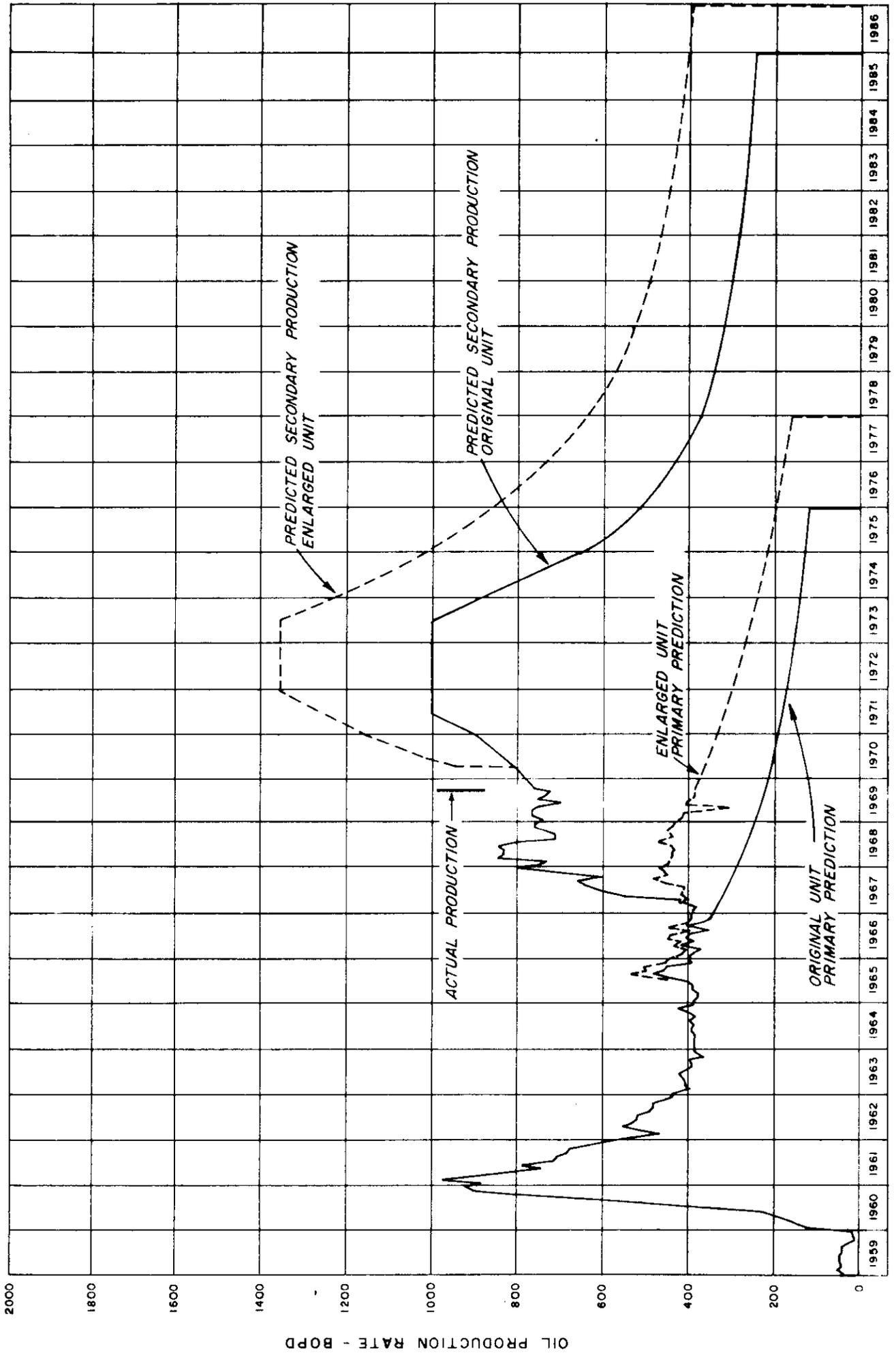


FIGURE 3

VIRDEN - ROSELEA UNIT No.2 PRODUCTION PREDICTIONS AND HISTORY ORIGINAL AND ENLARGED UNIT



The Oil and Natural Gas Conservation Board Hearing

Virden - July 26, 1973

Procedure

1. Chairman calls the meeting to order at 9:00 A.M.
 2. Chairman reads notice of hearing
 3. Chairman requests Mr. Gamey to inform the hearing as regards notice of the application and date of hearing sent out to interested parties.
 4. Chairman requests the party representing the applicant to identify himself and outline the procedure to be taken in dealing with the submission
- eg. Chairman - I believe the Board is properly constituted with Mr. M.J. Gobert and Mr. J.S. Roper as members, and myself James T. Cawley as Chairman.

We will proceed in the order (of sequence) of items as listed in the Notice of Hearing and I would ask the party who is going to represent the applicant to identify himself and other members of his staff who may be participating and to outline the procedure to be taken in dealing with the legal documentation and the Engineering support for the submission. Possibly the parties speaking in support of the submission should be sworn in at this time.

If there are any other parties present here to-day, who wish to speak on any of the subject matters outlined in the Notice of Hearing, would they also come forward and identify themselves and indicate their item of concern. They will be given an opportunity to state their case following the applicant's submission.

5. J. S. Roper - Oath taken by participants
(representative)
6. Chairman asks (individual) to proceed with proposal for Unit No. 2 enlargement
7. Filing of exhibits

Legal questions - Can you file an affidavit first that you have the consent of 75% of the Working Interest Owners in the Enlargement Tracts and 75% of the Royalty Owners in the enlargement Tracts (Section 77, Mines Act)?

If the 75 percent consent cannot be filed, then it will be necessary to call another hearing for filing of consents.

8. Applicant proceeds with proposal for Unit enlargement (Engineering proposals)
9. Chairman asks if there are any questions to be put to the speaker following each item dealt with.
10. When submissions regarding the enlargement of Unit No. 2 have been outlined and discussed the Board may recess for 15 minutes to discuss approval in principle, or necessity of another hearing, or the submission of further information or evidence from the applicant.
11. The Chairman calls the Hearing to order again and may proceed directly with item No. 4 (Viriden-Roselea Unit #3 enlargement) or he may give a resumé of the Board's decision or further requirements relating to Unit No. 2, and discuss a possible "effective date" for the Unit enlargement. He could leave this till the final item on the agenda.
12. The Chairman asks the applicant's representative to proceed with the proposal for Unit No. 3 enlargement, along similar line to that carried out for the previous items heard.
13. When the submissions relating to items 4,5, and 6 have been outlined and discussed, the Board may ask for another recess to discuss the evidence.
14. The Chairman calls the meeting to order and may give a resume of the Board's finding and may discuss an "effective date" if another hearing is not required.
15. The Chairman refers to the final item on the Notice and lists the Board Orders necessary to meet the applicants proposal -
 - (1) Unitization Order for Unit No. 2 enlargement. This requires an Order-In-Council and may require 6 weeks "lead time" in setting an effective date for the Unit enlargement.
 - (2) Allowable Order exempting Unit well (Unit No. 2) from field allowable.
 - (3) Unitization Order for Unit No. 3 enlargement. This requires an Order-In-Council and may require 6 weeks "lead time" in setting an effective date for the Unit enlargement.
 - (4) Allowable order exempting Unit wells (Unit No. 3) from field allowable.
 - (5) Amendment to "Pressure Maintenance Order" PM 7, adding one injection well.(Unit No. 3)

16. If there are no further questions the Chairman may terminate the hearing, providing no further hearing is necessary to file the Royalty Owner Consents.
17. If another hearing is required the Chairman adjourns the hearing sine die (without date).

Unitization Orders

Unitization Orders must be approved by Order-In-Council and application to add to the Unit area must also be approved by Lieutenant Governor in Council (See Section 79(3) of Mines Act)

Draft of Unitization Order

The Oil and Natural Gas Conservation Board

Unitization Order No. 15

Put
Amending Unitization Order No. 9 ~~of the Board~~
Made under The Mines Act

1. The Plan for Unit ^{Operation} ~~Operation~~ governing the Unitized ^{management} ~~management~~ Operation and Further Development of the Virden-Roselea Unit No. 2, set out in Unitization Order No. 4 (Manitoba Regulation 53/66) and amended by Unitization Order No. 9 (Manitoba Regulation 176/70), is further amended by adding to the Unit area affected by the said Order, the following area:

Legal subdivision 6 of Section 7 in Township 11,
Range 25, West of the Principle Meridian.

2. Parts XXII, XXIII and XXIV, being excerpts from the amendments to the Plan, and attached hereto shall be published in the Manitoba Gazette.
3. This Order shall be effective at the hour of ~~4.00 o'clock in the forenoon~~ ^{7.00} ~~Official Time~~ on the ~~first~~ day of ^{July} A.D., 1973.

Oil and Natural Gas Unitization Order No. 15,
made and passed this day of ,
A.D., 1973, at the City of Winnipeg, in
the Province of Manitoba, by The Oil and
Natural Gas Conservation Board.

(Signed by Minister and
Board Members)

Publication of the Plan attached to Unitization Order No. 15 is dispensed with by Order-In-Council No.

*Regulation
Order*

VIRDEN-ROSELEA UNIT # 2(2nd Enlargement)

Order of Procedure

1. Application for enlargement of Unit.

NOTE: This is the second enlargement applied for. The original Unit was approved in May 1966 (Unitization Order No. 4). The first enlargement was carried out in November 1970 (Unitization Order No. 9)

Application for this second enlargement is made under Section 79 of The Mines Act Ch ML60 which states as follows:

79(1) Notwithstanding section 78, the unit operator of a unit area, or the working interest owner of a tract adjoining a unit area, may apply to the Board at any time to add to the unit area tracts that adjoin the unit area and that, in the opinion of the board, are in the same pool or field as the unit area.

79(2) Upon receiving an application under subsection (1), or upon its own motion, the board may hold a hearing to consider adding further tracts to the unit area.

79(3) Upon holding a hearing under subsection (2), the board may, with the approval of the Lieutenant Governor in Council, order that tracts that adjoin a unit area and that, in the opinion of the board, are within the same pool or field, be added to the unit area.

79(4) In an order made under subsection (3), the board may provide that the unit area previously established be deemed to be a single tract, and the portion of the oil and gas produced that is allocated to the previously established unit area be allocated to the owners of the tracts therein in accordance with the order establishing it.

2. Application for Maximum Permissible Rate of Production for the enlargement
Tracts made under Section 62 (Powers of the Board)

The original Unit was excluded from the provision of Order No. 22A - pertaining to Max. permissible rate of production in the Virden-Roselea field of 60 barrels per day. This was done by Board Order No. 41A exempting all wells in the Unit from the provision of Order No. 22 (filed May 27, 1966). The wells of the first enlargement were exempted under Board Order No. 53A (filed November 17, 1970).

The applicant proposes that the 2nd enlargement Tracts be given the same exemption from the provision of Order 22A.

There has been no evidence of reservoir damage in any of the pressure maintenance schemes where production has been unrestricted. Field allowables were not lifted on unit wells offsetting producing wells on the west flank of the North Virden Scallion Unit No.1. However the second enlargement Tract in the Virden-Roselea Unit No. 2 does not offset any field production.

3. Amendment to Part XXVI, claim 26.07 (k)(iii)(a) of the Plan for Unit Operation - Virden-Roselea Unit No. 2.

for
The Unit operators request an increase of \$60 a month to cover district and administrative over head charges bring the total to "\$3,500 per month for all producing operations"

This has been approved by the Operating Committee. However under section 6.03(j) of the "Plan", no amendment increasing the charges to be made by the Unit Operator under 26.07(k) - (charges to common account) - shall become effective until the approval of the Conservation Board to such increase in charges has been obtained.

Discussion of items of procedure

1. Unit Enlargement

The enlargement Tract 6-7 adjoins the Unit area in the S.W. $\frac{1}{4}$ of section 7-11-25 and is producing from the oolitic and cherty zone of the Mississippian formation (1,929 feet - 1,971 feet). The adjoining Unit well on 5-7 produces from the same zones (1,914 feet - 1,974 feet). Thus the enlargement Tract is considered to be producing from the same pool as the Unit.

2. Enlargement Tract - Participation Factor

The original Unit Tract participation was based on $\frac{1}{2}$ current production factor and $\frac{1}{2}$ monthly oil production factor penalized for water production.

For this enlargement, the Tract factor proposed is to be based on current production, as they consider the Tract to be receiving waterflood response now.

The initial shut-in pressure (October 14, 1971) reported in a drill stem test on the 6-7 Tract was 1,032 p.s.i. We do not have record of recent bottom hole pressure tests taken on this well, though the applicant indicates that pressure support is in evidence in this well. A subsurface pressure test of Virden-Roselea Unit No. 2 carried out August - September 1971, showed Tract 5-7 having a pressure of 943 p.s.i. at datum depth of 1,952 feet. It is likely that the enlargement Tract 6-7 was receiving waterflood response at the time it was drilled in October 1971.

3. Reserves

It is estimated the enlargement Tract well contribute an additional 127,000 barrels to the Unit of December 31, 1972.

4. Enlargement Tract Requirements

The working Interest Owners of the enlargement Tract are asked to participate in the Investment Account (Part X of the Original "Plan") and contribute \$2,500 as the proportionate share of the Unit investment in plant, etc., and in addition to be responsible for the expenses of tying in the well to Unit facilities.

The Board is not required to issue any order or amendment to the Plan as regards The Investment Account and the Working Interest Owners participation.

INTER-DEPARTMENTAL MEMORANDUM

FROM DATA CHECK



DATE June 13, 1973

TO F. S. Gamey

PROVINCE
OF
MANITOBA

SUBJECT # 2 Unit Enlargement: Participation Factors

55 well production Sept. 1/72 - Feb. 28/73
 Tract 6-7-11-25 Sept. 1/72 - Feb. 28/73

137,496 barrels

3,912 barrels

Total production

141,408 barrels

Current production factor for 6-7-11-25

$$\frac{3,912}{141,408} \times 100 = 2.76646 \text{ percent}$$

Reduction factor for the 55 wells = $1 - .0276646 = 0.9723354$

(Multiply each of the 55 Tract Participation factors by 0.9723354)

VIRDEN-ROSELEA UNIT # 3 (1st Enlargement)

Order of Procedure

The order of procedure is the same as for Virden-Roselea Unit No. 2 except that it is proposed to convert one of the enlargement Tract wells, namely 2A-18-10-25, to a water injection well.

This will require an amendment to the original Pressure Maintenance Order PM 7, as set out in Draft of Order No. PM 22, here attached.

Discussion of Items of Procedure (Virden-Roselea Unit No. 3)

1. Unit Enlargement

The wells on the enlargement Tracts 2-18, 7-18 and 10-2 were completed on the oolitic and cherty zone of the Mississippian formation, similar to the adjoining Unit No. 3 wells. However, only the well on 10-2 is considered economic to produce. The wells on Tracts 2-18 and 7-18 were producing only 2 BOPD and 8 EWPD when they were suspended in 1972.

2. Participation Factors

The Tract participation in the original Unit was based on 40 percent current production factor and 60 percent average monthly oil production penalized for water production.

Tract participation for the enlargement Tracts are based on a current production period of 184 days less the economic limit of 5 BOPD over the same period (184 days).

The value of each Tract to the Unit would be its production in excess of the economic limit, considered as 5 BOPD.

As the wells on Tracts 2-18 and 7-18 produced less than 5 BOPD over the current production period they were assigned token participation factors of 0.05000 percent each. It is felt they have some future worth to the Unit in that 2-18 will be converted to an injector well and 7-18 may be economically produced as part of the Unit.

3. Reserves

The addition of 10-2-10-26 to the Unit will only add some 65,000 barrels to the Unit. However it is felt that the increased water injection through the proposed injector well on 2-18 will increase recoverable reserves from offsetting producers on 15-7, 3-18 and 7-18.

4. Enlargement Tract Requirements

The Board is not required to issue any Orders as regards the cost of tying in enlargement wells to the Unit facilities, or participation in the Investment Account established under the Plan.

5. Maximum Permissible Rate of Production

This request is similar to that outlined in Virden-Roselea Unit No. 2 application. Board Order No. 61A is required to exclude the enlargement tracts from the field allowable of 60 barrels per day set under Board Order No. 22A.

6. Amendment to Part XXVI 26.07(k)(iii)(a)

As in the case of Virden-Roselea Unit No. 2, it will be necessary for the Board to approved the increase in charges to the Common Account.

The Operating Committee approved an increase in charges by \$165 per month which would require the wording of 26.07(k)(iii)(a) to be amended to read:

"\$6,265 per month for all producing operations"

INTER-DEPARTMENTAL MEMORANDUM



DATE June 13, 1973

FROM Data Check

TO F. S. Gamey

PROVINCE
OF
MANITOBA

SUBJECT Unit No. 3 Enlargement: Participation factors

| | |
|--|-----------------|
| 108 well production (Aug. 1/71 - Jan. 31/72) | 214,948 barrels |
| Tract 10A-2-10-26 production " | 4,670 barrels |
| Tract 2A-18-10-25 production " | 601 barrels |
| Tract 7-18-10-25 production " | 371 barrels |

Deduct economic limit of 5 BOPD for 184 days (for enlargement wells only) 920 barrels

Current production less Economic limit of enlargement Tracts

| | |
|---------------|-----------------|
| 108 well Unit | 214,948 barrels |
| 10A-2-10-26 | 3,750 barrels |
| 2A-18-10-25 | 0 barrels |
| 7-18-10-25 | 0 barrels |

218,698 barrels

C.P. for 10A-2-10-26 $\frac{3,750}{218,698} \times 100 = 1.71469 \text{ percent.}$

Token participation factors for

| | |
|-------------|--------|
| 2A-18-10-25 | .05000 |
| 7-18-10-25 | .05000 |

Total for 3 enlargement Tract 1.81469

Reduction factor for 108 well tracts = 1.00000 - 0.0181469 = 0.9818531

inter-departmental memo

To:

Mr. J. S. Roper,
Director of Mines.

Date July 20, 1973.

From M. J. Gobert,
Senior Assistant Deputy Minister.

Subject: OIL AND NATURAL GAS CONSERVATION BOARD HEARING - JULY 26, 1973.

The Chairman has asked that Mr. Gamey act as Secretary to the Board at the Hearing in Virden on July 26th.

That is, Mr. Gamey would:

1. Call the meeting to order.
2. Read Notice of Hearing.
3. Use the following specific words:

"On behalf of the Oil and Natural Gas Conservation Board I have caused Notices of the Hearing to be sent to"

I have received acknowledgments from

I have not received acknowledgments from "

4. Mr. Gamey to swear in participants.
 - (a) Have Bible.
 - (b) Have oath typed out.
5. Mr. Gamey to circulate sheet for names, affiliations and interests of each person in the room.
6. Mr. Gamey will number each exhibit.
7. Mr. Gamey will operate or have Virden staff operate recording equipment.
8. Mr. Gamey will make a note of any specific notes the Chairman wishes made which may or may not be taped.

A comparison with the attached Suggested Procedure will show how the Secretary and Chairman will mesh.

M. J. Gobert

MJG/as
Att.

First | Fold

The Oil and Natural Gas Conservation Board Hearing

Virden - July 26, 1973

Suggested Procedure

1. Chairman calls the meeting to order at 9:00 a.m.
2. Chairman reads notice of hearing.
3. Chairman requests Mr. Gamey to inform the hearing as regards notice of the application and date of hearing sent out to interested parties.
4. Chairman requests the party representing the applicant to identify himself and outline the procedure to be taken in dealing with the submission.

e.g. Chairman: I believe the Board is properly constituted with Mr. M. J. Gobert and Mr. J. S. Roper as members, and myself, James T. Cawley as Chairman. (Order-in-Council 1048/72, October 26, 1972, effective November 1, 1972.)

We will proceed in the order of items as listed in the Notice of Hearing and I would ask the party who is going to represent the applicant to identify himself and other members of his staff who may be participating and to outline the procedure to be taken in dealing with the legal documentation and the Engineering support for the submission. (Possibly the parties speaking in support of the submission should be sworn in at this time.)

If there are any other parties present here today, who wish to speak on any of the subject matters outlined in the Notice of Hearing, would they also come forward and identify themselves and indicate their item of concern. They will be given an opportunity to state their case following the applicant's submission.

5. ~~J-S-Roper~~ Oath taken by participants.
6. Chairman asks applicant's representative to proceed with proposal for Unit No. 2 enlargement.
7. Filing of exhibits: *Mr. Gamey, Mr. Roper, Mr. Cawley, Mr. Gobert*

Question: Can you file an affidavit that you have the consent of 75% of the Working Interest Owners in the Enlargement Tracts and 75% of the Royalty Owners in the Enlargement Tracts (Section 77, The Mines Act)?

If the 75% consent cannot be filed, then it will be necessary to reconvene this hearing at a later date for filing of consents.

8. Applicant proceeds with proposal for Unit Enlargement (Engineering proposals).
9. Chairman asks if there are any questions to be put to the speaker following each item dealt with.
10. When submissions regarding the enlargement of Unit No. 2 have been outlined and discussed, the Board may recess for 15 minutes to discuss approval in principle, or necessity of reconvening the hearing, or the submission of further information or evidence from the applicant.
11. ~~The Chairman~~ ^{Mr. Conner} calls the Hearing to order again and may proceed directly with Item No. 4 (Virden-Roselea Unit #3 Enlargement) or he may give a resume of the Board's decision or further requirements relating to Unit No. 2, and discuss a possible "effective date" for the Unit enlargement. (He could leave this until the final item on the agenda.)
12. The Chairman asks the applicant's representative to proceed with the proposal for Unit No. 3 enlargement, along similar line to that carried out for the previous items heard.
13. When the submissions relating to items 4, 5 and 6 have been outlined and discussed, the Board may ask for another recess to discuss the evidence.
14. ~~The Chairman~~ ^{Mr. Conner} calls the meeting to order and may give a resume of the Board's findings and may discuss an "effective date" if a reconvened hearing is not required.
15. ^{??} The Chairman refers to the final item on the Notice and lists the Board Orders necessary to meet the applicant's proposal:
 - (1) Unitization Order for Unit No. 2 Enlargement. This requires an Order-in-Council and may require 6 weeks "lead time" in setting an effective date for the Unit Enlargement.
 - (2) Allowable Order exempting Unit well (Unit No. 2) from field allowable.
 - (3) Unitization Order for Unit No. 3 enlargement. This requires an Order-in-Council and may require 6 weeks "lead time" in setting an effective date for the Unit enlargement.
 - (4) Allowable order exempting Unit wells (Unit No. 3) from field allowable.
 - (5) Amendment to "Pressure Maintenance Order" PM 7, adding one injection well. (Unit No. 3)

16. If there are no further questions the Chairman may terminate the hearing, providing continuation of the hearing is not necessary to file the Royalty Owner Consents.
17. If continuation is required, the Chairman adjourns the hearing sine die.

INTER-DEPARTMENTAL MEMORANDUM



DATE July 16, 1973

FROM S. Gamey

TO Oil and Natural Gas Conservation Board

PROVINCE OF MANITOBA

SUBJECT Re: Notice of Hearing, July 26, 1973 at Virden, Manitoba

The Board received an opinion from Chevron Standard Limited on behalf of the Oil and Natural Gas Conservation Board I have caused notices to be sent out to

Notice of the above Board hearing was mailed double Registry to each of the following Working Interest Owners and Royalty Owners in the Virden-Roselea Unit No. 2, proposed enlargement Tract No. 6-7

minutes 62(14)

Working Interest Owners

| | |
|--|--|
| Bracell Explorations Limited 4th Floor, Fina Building | 736 Eighth Avenue S.W. CALGARY, Alberta |
| Chevron Standard Limited | 400 Fifth Avenue S.W. CALGARY, Alberta |

Royalty Owners

| | |
|---------------------------------|---|
| Rural Municipality of Woodnorth | KENTON, Manitoba |
| Imperial Oil Limited | 500 Sixth Avenue S.W. CALGARY, Alberta |
| J.W. Clarke | Box 952 VIRDEN, Manitoba |

Acknowledgement was received of the delivery of the notice to the above.

Notices were also sent out to the Working Interest Owner and Royalty Owners in the proposed enlargement Tracts 10-2-10-26 and 2-18 and 2-17 of 10-25, of Virden-Roselea Unit No. 3.

Working Interest Owners

| | |
|---|---|
| Chevron Standard Limited | 400 Fifth Avenue S.W. CALGARY, Alberta |
| H.L. & V.E. Berry and Mineraloid (Developments) Ltd. | Box 546 McLEAN, Virginia U.S.A. |
| G.A. Pierson | 5000 Triggs Street LOS ANGELES, California |

Royalty Owners

| | |
|----------------------------|---------------------------------------|
| Canada Permanent Trust | 433 Portage Avenue, Winnipeg |
| Canadian Superior Oil Ltd. | 355 Fourth Avenue CALGARY, Alberta |
| Lottie Myrtle Jones | VIRDEN, Manitoba |
| John Alexander Nicol | VIRDEN, Manitoba |

Royalty Owners (Cont'd)

Edward G. Whitaker

R.R. No. 1
PRINCETON, Ontario

Acknowledgement was received of delivery of notice of hearing to all parties listed.

One insertion of the notice of hearing was published in the
Viriden-Empire Advance Newspaper on June 27, 1973. *circulated in the Viriden area.*

and in the Manitoba Gazette Vol. 102 No. 26, date, June 30, 1973.


F. S. Gamey

FSG/evh

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Oil and Gas Reservoir Evaluations

Dept. Mines, Resources and
Environmental Management

JUL 18 1973

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640 EIGHTH AVENUE S.W.
CALGARY, ALBERTA T2T 1G7
TELEPHONE (403) 262-5506

R. R. MCDANIEL, P.ENG.
G. C. KNUTSON, P.ENG.
R. E. HUGHES, P.ENG.
W. C. SETH, P.ENG.
F. SCHORNING, P.GEOL.

July 16, 1973

Mr Stan Gamey,
Department of Mines and Natural Resources,
Province of Manitoba,
911 Norquay Building,
Winnipeg, Manitoba,
93C OP8.

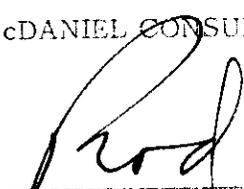
Dear Stan:

In regard to your letter of July 6, the writer has written Jack Roper with respect to the hearing in question. In the main we would be in general agreement with the proposed enlargement of Virden-Roselea Units Nos. 2 and 3. I do not have any particular questions for the hearing.

We trust this advice will be satisfactory, however should there be any other points of question please do not hesitate to contact the writer.

Sincerely,

MCDANIEL CONSULTANTS (1965) LTD.


R.R. McDaniel, P. Eng.

RRMcD/sds

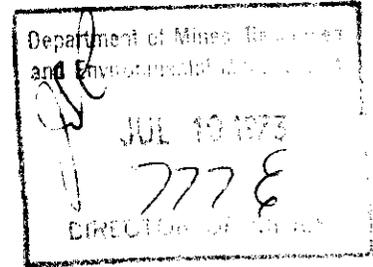
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800 WESTERN UNION BLDG.
640 EIGHTH AVENUE S.W.
CALGARY, ALBERTA T2T 1G7
TELEPHONE (403) 262-5506

July 6, 1973



Mr. J.S. Roper, Deputy Chairman,
The Oil and Natural Gas Conservation Board,
901 Norquay Building,
401 York Avenue,
Winnipeg 1, Manitoba.

Dear Jack:

In regard to the two applications by Chevron Standard Limited to enlarge Virden-Roselea Units No. 2 and 3 and to expand the water injection system in Unit No. 3 we do not see any particular reason why these projects should not be approved. The participation allotted to the new wells appear reasonable and should represent a realistic assessment of the relative value of these wells as compared to the overall unit value.

In view of our opinion with respect to these Unit enlargements we do not see any particular purpose in having a representative at the hearing unless you deem it advisable. Unless we hear from you to the contrary, we will not plan to attend.

Sincerely,

MCDANIEL CONSULTANTS (1965) LTD.


R.R. McDaniel, P. Eng.

RRMcD: nfw

Placed to Akler
July 11/73

The Oil and Natural Gas Conservation Board,
Department of Mines, Resources and
Environmental Management,
Province of Manitoba,
Winnipeg, Manitoba.

Dear Sirs:

Whistler Petroleum Limited being the owner of 2.223
percent Working Interest in the Virден-Roselea Unit No. 2, hereby consent
and agree to the Board approving the application submitted by Chevron
Standard Limited for:

- (a) Proposal for Unit Enlargement of Virден-Roselea Unit No. 2,
pursuant to Section 79 of The Mines Act.
- (b) Application for a Maximum Permissible Rate of Production for
the Enlargement Tracts pursuant to Section 62 of The Mines Act.
- (c) Amendment to Part XXVI, Clause 26.07 (k) (iii) (a) of the "Plan
for Unit Operation Governing the Unitized Management Operation
and Further Development of Virден-Roselea Unit No. 2" as amended,
pursuant to Part VI, Clause 6.03 (j) of the above "Plan" and also
Section 78 (3) of The Mines Act.
- (d) Such other changes or amendments to existing Board Orders as may
be necessary to give effect to the foregoing.

DATED this 5th day of July, A.D. 1973.

[Signature]
President

[Signature]
Secretary

*Similar consent, even also of the same
to the Board, Chevron Standard Limited*

[Signature]

The Oil and Natural Gas Conservation Board,
Department of Mines, Resources and
Environmental Management,
Province of Manitoba,
Winnipeg, Manitoba.

Dear Sirs:

Whistler Petroleum Limited being the owner of 2.223

percent Working Interest in the Virден-Roselea Unit No. 2, hereby consent and agree to the Board approving the application submitted by Chevron Standard Limited for:

- (a) Proposal for Unit Enlargement of Virден-Roselea Unit No. 2, pursuant to Section 79 of The Mines Act.
- (b) Application for a Maximum Permissible Rate of Production for the Enlargement Tracts pursuant to Section 62 of The Mines Act.
- (c) Amendment to Part XXVI, Clause 26.07 (k) (iii) (a) of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virден-Roselea Unit No. 2" as amended, pursuant to Part VI, Clause 6.03 (j) of the above "Plan" and also Section 78 (3) of The Mines Act.
- (d) Such other changes or amendments to existing Board Orders as may be necessary to give effect to the foregoing.

DATED this 5th day of July, A.D. 1973.

[Signature]
President
[Signature]
Secretary

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Signature of addressee OR authorized representative / Signature du destinataire OU de son représentant [Signature]

Signature of Postmaster at office of delivery / Signature de l'agent du bureau destinataire

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Postmark: KENTON MANITOBA JUN 25 1973

To be filled in by office of origin - A remplir par le bureau d'origine

Mailed at the Post Office of / Déposé au bureau de poste de

On / le JUNE 25 19 73 under Registered no. / sous le n° de recommandation 11675

Name of Addressee / Nom du destinataire IMPERIAL OIL

No. and St., P.O. Box or R.R. No., Apt. No. / N° et rue ou case postale; n° de R.R. ou d'appartement

City - Ville CALGARY Zone Province ALBERTA Country / Pays

To be completed at office of destination - A compléter à destination

(1) I acknowledge that this registered article was delivered on / Je déclare que l'envoi recommandé susmentionné a été dûment livré le June 26

Signature of addressee OR authorized representative / Signature du destinataire OU de son représentant [Signature]

Signature of Postmaster at office of delivery / Signature de l'agent du bureau destinataire

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Postmark: CALGARY ALBERTA JUN 26 1973

To be filled in by office of origin - A remplir par le bureau d'origine

Mailed at the Post Office of / Déposé au bureau de poste de

On / le JUNE 25 19 73 under Registered no. / sous le n° de recommandation 1088

Name of Addressee / Nom du destinataire MR J W CLARK

No. and St., P.O. Box or R.R. No., Apt. No. / N° et rue ou case postale; n° de R.R. ou d'appartement P.O. BOX 952

City - Ville KIRDEN Zone Province MANITOBA Country / Pays

To be completed at office of destination - A compléter à destination

(1) I acknowledge that this registered article was delivered on / Je déclare que l'envoi recommandé susmentionné a été dûment livré le

Signature of addressee OR authorized representative / Signature du destinataire OU de son représentant [Signature]

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Postmark: KIRDEN MANITOBA JUN 26 1973

To be filled in by office of origin - A remplir par le bureau d'origine

Mailed at the Post Office of / Déposé au bureau de poste de

On / le JUNE 25 19 73 under Registered no. / sous le n° de recommandation 1060

Name of Addressee / Nom du destinataire CANADA PERMANENT TRUST

No. and St., P.O. Box or R.R. No., Apt. No. / N° et rue ou case postale; n° de R.R. ou d'appartement 433 PORTAGE AVENUE

City - Ville WINNIPEG Zone Province MANITOBA Country / Pays

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Postmark: WINNIPEG MANITOBA JUN 26 1973

To be filled in by office of origin - A remplir par le bureau d'origine

Mailed at the Post Office of / Déposé au bureau de poste de

On / le JUNE 25 19 73 under Registered no. / sous le n° de recommandation 1070

Name of Addressee / Nom du destinataire CANADIAN SUPERIOR OIL LTD

No. and St., P.O. Box or R.R. No., Apt. No. / N° et rue ou case postale; n° de R.R. ou d'appartement 1801 TOWER CALGARY

City - Ville CALGARY Zone Province ALBERTA Country / Pays

AFFIX POSTAGE
HERE

APPORTEZ LE
TIMBRE-POSTE ICI

To be completed at office of destination - A compléter à destination

(1) I acknowledge that this registered article was delivered on / Je déclare que l'envoi recommandé susmentionné a été dûment livré le JUNE 26 1973

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Date stamp of office of delivery / Timbre à date du bureau destinataire

To be filled in by office of origin - A remplir par le bureau d'origine

Mailed at the Post Office of / Déposé au bureau de poste de

On / le JUNE 25 19 73 under Registered no. / sous le n° de recommandation 1072

Name of Addressee / Nom du destinataire MRS JOHN ALEXANDER NICOL

No. and St., P.O. Box or R.R. No., Apt. No. / N° et rue ou case postale; n° de R.R. ou d'appartement

City - Ville WINDEN Zone ROX Province MAN Country / Pays

AFFIX POSTAGE
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APPORTEZ LE
TIMBRE-POSTE ICI

To be completed at office of destination - A compléter à destination

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Mailed at the Post Office of / Déposé au bureau de poste de

On / le JUNE 25 19 73 under Registered no. / sous le n° de recommandation 1074

Name of Addressee / Nom du destinataire ALBERTA DE BERRY

No. and St., P.O. Box or R.R. No., Apt. No. / N° et rue ou case postale; n° de R.R. ou d'appartement P.O. Box 546

City - Ville MCLEAN Zone 22101 Province VIRGINIA Country / Pays

AFFIX POSTAGE
HERE

APPORTEZ LE
TIMBRE-POSTE ICI

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Mailed at the Post Office of / Déposé au bureau de poste de

On / le JUNE 25 19 73 under Registered no. / sous le n° de recommandation 1075

Name of Addressee / Nom du destinataire G A PIERSON

No. and St., P.O. Box or R.R. No., Apt. No. / N° et rue ou case postale; n° de R.R. ou d'appartement 5000 TRIGGS ST

City - Ville LOS ANGELES Zone Province CALIFORNIA Country / Pays

AFFIX POSTAGE
HERE

APPORTEZ LE
TIMBRE-POSTE ICI

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Date stamp of office of delivery / Timbre à date du bureau destinataire

POST OFFICE DEPARTMENT CANADA MINISTERE DES POSTES

ACKNOWLEDGMENT OF RECEIPT
AVIS DE RÉCEPTION

On Postal Service
Service des Postes

Return by Air
Renvoi par avion

If return by air desired, check "Return By Air" above and affix air mail sticker here.
Si l'avis est à renvoyer par avion, cocher ci-dessus "Renvoi par avion" et apposer ici l'étiquette "Par avion".

RETURN TO:
RENOYER À: 711 NORQUAY BLDG

Name of Sender
Nom de l'expéditeur PETROLEUM DIVISION

No. and St., P.O. Box or R.R. No., Apt. No.
N° et rue ou case postale; n° de R.R. ou d'appartement

City - Ville WINNIPEG Zone R3C 0P8 Province MANITOBA CANADA

43-74-010 (9-68) Sender Please Print Clearly - A l'expéditeur: Ecrire lisiblement en lettres majuscules 39-B

POST OFFICE DEPARTMENT CANADA MINISTERE DES POSTES

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Service des Postes

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Renvoi par avion

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AVIS DE RÉCEPTION

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43-74-010 (9-68) Sender Please Print Clearly - A l'expéditeur: Ecrire lisiblement en lettres majuscules 39-B

POSTES CANADA POST
POST OFFICE REGISTRATION RECEIPT — RÉCÉPISSÉ DE RECOMMANDATION POSTALE

(THIS RECEIPT IS NECESSARY IF ENQUIRY IS DESIRED — À PRODUIRE EN CAS DE RÉCLAMATION)

Stamp of Firm...

Mailed by
 Déposé par **Mines Branch, 911 Norquay Petroleum Division**
(Name or Firm) (Nom ou Raison sociale)

Date Stamp of
 Post Office



Fragile and perishable articles are not registered against damage.
 Les objets fragiles ou périssables ne sont pas recommandés contre l'avarie.

MAXIMUM INDEMNITY — INDEMNITÉ MAXIMUM
 CANADA and UNITED STATES: 35c fee \$25; 45c fee \$50; 50c fee \$75; 60c fee \$100;
 CANADA et ÉTATS-UNIS: Droit de 35c, \$25; droit de 45c, \$50; droit de 50c, \$75; droit de 60c, \$100;
 OTHER COUNTRIES: Enquire at Post Office — AUTRES PAYS: S'informer au bureau de poste.
FEE MUST BE INDICATED, IF MORE THAN 35c. — INDIQUER LE DROIT S'IL DÉPASSE 35c.



Timbre à date du bureau de poste

Timbre de la maison expéditrice

| NUMBER — NUMÉRO | NAME — NOM | FEE DROIT | ADDRESS — ADRESSE |
|-----------------|---|-----------|--|
| | Chevron Standard Limited | 1 | 100 Fifth Avenue S.W. CALGARY Alberta |
| | Bracell Explorations Limited Fourth Floor, Fina Building | 2 | 738 Eighth Avenue S.W. Calgary, Alberta |
| | Rural Municipality of Woodworth | 3 | KENTON, Manitoba |
| | Imperial Oil Limited | 4 | 500 Sixth Avenue S.W. CALGARY, Alberta |
| | Mr. J. L. Clark c/o South Central Dev. Ltd. | 5 | P. O. Box 952 WINNIPEG, Manitoba |
| | Canadian Investment Trust Company | 6 | 121 Portage Avenue WINNIPEG, Manitoba |
| | Canadian Superior Oil Co. 1500 Barris Calgary, Alberta | 7 | 235 Fourth Avenue S.W. CALGARY, Alberta |
| | Mr. Arthur Jones | 8 | WINNIPEG, Manitoba R.O. 200 |
| | Mr. John Alexander Nicol | 9 | WINNIPEG, Manitoba R.O. 200 |
| | Mr. Arthur G. Whitaker | 10 | P.O. No. 1 BRIDGTON, Ontario |
| | Mr. and Mrs. Berr P.O. Box 21 | 11 | BRANDY, Virginia |
| | Mr. Peterson 230 Triggs Street | 12 | LOS ANGELES, California U.S.A. |
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Dept. Mines and Technical Surveys
 Environnement
JUN 26 1973
 PETROLEUM ENGINEER
 JUN 10

(Handwritten initials/signature)

SHEET No.
 FEUILLE N°

Number of Articles
 Nombre d'objets

Accepted by
 Accepté par

UNDER THE MINES ACT

A Public Hearing will be held in the Government Resources Building, 247 Wellington W., Town of Virden, Province of Manitoba on Thursday, July 26th, 1973, commencing at 9 A.M., Central Daylight Time, for the purpose of hearing representatives with respect to:

1. A proposal by the Unit Operator for Unit enlargement, Virden-Roselea Unit No. 2, to include the following well location:

In Township 11 — Range 25 WPM, Legal subdivision 6, Section 7.

2. An application for Maximum Permissible Rate of Production for the above Enlargement Tract, Virden-Roselea Unit No. 2.

3. An amendment to Part XXVI, clause 26.07 (k) (iii) (a) of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virden-Roselea Unit No. 2".

4. A proposal by Unit Operator for Unit enlargement, and Expansion of the Water Injection System, Virden-Roselea Unit No. 3 to include the following well locations:

In Township 10 — Range 25 WPM
Legal subdivision 2 and 7, Section 18.

In Township 10 — Range 26 WPM

Legal subdivision 10, Section 2.

5. An application for a maximum Permissible Rate of Production for the Enlargement Tracts Virden-Roselea Unit No. 3.

6. An amendment to Part XXVI, clause 26.07 (k) (iii) (a) of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virden-Roselea Unit No. 3".

7. Such other changes, or amendments to existing Board Orders, as may be necessary to give effect to the foregoing.

Copies of material filed in support of items 1 to 6 inclusive are available at the offices of Chevron Standard Limited, 400 Fifth Avenue S.W., Calgary, Alberta, T2P 0L7.

Written submissions in respect to the subjects of the Hearing must be submitted to the Board, at Room 901, Norquay Building, Winnipeg, Manitoba, R3C 0P8 on or before July 23, 1973.

Dated at Winnipeg, Manitoba, this 21st day of June, 1973.

J. S. ROPER
Deputy Chairman.

— 26

PUBLIC NOTICES

UNDER THE MUNICIPAL ACT

R.M. of Swan River — Tax Sale correction. The following error occurred in Gazette No. 23, dated June 9, 1973 on page 632:

The day of the tax sale read: "Wednesday, July 13, 1973". This should have read: "Friday, July 13, 1973".

W. E. PICO,
Assistant Secretary-Treasurer,
R.M. of Swan River.

— 26

The Rural Municipality of Portage la Prairie

Public notice is hereby given by The Rural Municipality of Portage la Prairie that, pursuant to the provisions of Part XI of the Municipal Act, the said Rural Municipality of Portage la Prairie has

added to the Local Improvement District of Oakville No. 1, by a By-Law of the said Rural Municipality of Portage la Prairie passed on the 10th day of April, 1973 as No. 2148 the following described lands, namely:

That part of the North West Quarter of Section Eighteen, in Township Eleven and Range Four, West of the Principal Meridian, in Manitoba, shown as Parcels "A" and "B" on a Plan filed in the Portage la Prairie Land Titles Office as No. 1535.

Dated at the City of Portage la Prairie, in the Province of Manitoba, this 19th day of June, 1973.

WM. M. McMILLAN
Secretary-Treasurer

4486-26

Town of Neepawa. Sale of Lands for Arrears of Taxes. Notice is hereby given that by virtue of a warrant issued to me by the Mayor of the Corporation of the Town of Neepawa, and bearing date the 18th day of June, 1973 commanding me to levy upon the several parcels of land hereinafter mentioned and described, being within the limits of the said Town of Neepawa for the arrears of taxes due thereon together with the costs, that unless said arrears of taxes and costs are sooner paid, I shall on Tuesday, August 7, 1973 at the hour of 2:00 o'clock in the afternoon at the office of the Town Clerk, in the said Town of Neepawa, proceed to sell by public auction the said lands for the said arrears of taxes and costs.

Further take notice that the Town of Neepawa will exercise its prior right to bid up to the amount due thereon for arrears of taxes and costs and become the

POSTES CANADA POST

POST OFFICE REGISTRATION RECEIPT — RÉCÉPISSÉ DE RECOMMANDATION POSTALE

(THIS RECEIPT IS NECESSARY IF ENQUIRY IS DESIRED — À PRODUIRE EN CAS DE RÉCLAMATION)

Stamp of Firm...

Mailed by

Déposé par Mines Branch, 911 Norway Petroleum Division

(Name or Firm) (Nom ou Raison sociale)

Date Stamp of Post Office

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MAXIMUM INDEMNITY — INDEMNITÉ MAXIMUM

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CANADA et ÉTATS-UNIS: Droit de 35c, \$25; droit de 45c, \$50; droit de 50c, \$75; droit de 60c, \$100;
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Timbre de la maison expéditrice

Timbre à date du bureau de poste

| NUMBER — NUMÉRO | NAME — NOM | FEE DROIT | ADDRESS — ADRESSE |
|-----------------|---|-----------|---|
| (#3) 77 | Chevron Standard Limited | 1 ✓ | 100 Fifth Avenue S.W. #263 CALGARY Alberta |
| #2 x | Bracell Explorations Limited | 2 ✓ | 711 Eighth Avenue S.W. #2 Calgary, Alberta |
| #2 x | Municipality of Woodsport | 3 ✓ | Woodsport, Manitoba UN.I #2 |
| #2 x | Imperial Oil Limited | 4 ✓ | 100 Fifth Avenue S.W. CALGARY, Alberta UN.I #2 |
| #2 x | Mr. J. L. Clark c/o South Central A.S.P. | 5 ✓ | P.O. Box 932 WINDSOR, Manitoba UN.I #2 |
| (#3) 7 | Bank of Montreal Trust Company | 6 ✓ | 200 Portage Avenue WINDSOR, Manitoba #3 |
| (#3) 7 | Mr. J. Superior 1000 Tenth Avenue CALGARY Alberta | 7 ✓ | 1000 Tenth Avenue S.W. #3 CALGARY, Alberta |
| #3 7 | Mr. W. L. Jones | 8 ✓ | Windsor, Manitoba #3 |
| #3 7 | Mr. J. L. Jones | 9 ✓ | Windsor, Manitoba #3 |
| #3 | Mr. J. L. Whit | 10 ✓ | Windsor, Ontario #3 |
| (#3) 7 | Mr. J. L. Barr | 11 ✓ | Windsor, Virginia #3 |
| (#3) 7 | Mr. J. L. Barr 5000 Triggs Street | 12 ✓ | Windsor, Ontario #3 |
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SHEET No.
FEUILLE N°

Number of Articles

Nombre d'objets.....

Accepted by

Accepté par.....

UNDER THE MINES ACT

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1. A proposal by the Unit Operator for Unit enlargement, Virden-Roselea Unit No. 2, to include the following well location:

In Township 11 -- Range 25 WPM, Legal subdivision 6, Section 7.

2. An application for Maximum Permissible Rate of Production for the above Enlargement Tract, Virden-Roselea Unit No. 2.

3. An amendment to Part XXVI, clause 26.07 (k) (iii) (a) of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virden-Roselea Unit No. 2".

4. A proposal by Unit Operator for Unit enlargement, and Expansion of the Water Injection System, Virden-Roselea Unit No. 3 to include the following well locations:

In Township 10 -- Range 25 WPM
Legal subdivision 2 and 7, Section 18.
In Township 10 -- Range 26 WPM

Legal subdivision 10, Section 2.

5. An application for a maximum Permissible Rate of Production for the Enlargement Tracts Virden-Roselea Unit No. 3.

6. An amendment to Part XXVI, clause 26.07 (k) (iii) (a) of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virden-Roselea Unit No. 3".

7. Such other changes, or amendments to existing Board Orders, as may be necessary to give effect to the foregoing.

Copies of material filed in support of items 1 to 6 inclusive are available at the offices of Chevron Standard Limited, 400 Fifth Avenue S.W., Calgary, Alberta, T2P 0L7.

Written submissions in respect to the subjects of the Hearing must be submitted to the Board, at Room 901, Norway Building, Winnipeg, Manitoba, R3C 0P8 on or before July 23, 1973.

Dated at Winnipeg, Manitoba, this 21st day of June, 1973.

J. S. ROPER
Deputy Chairman.



MANITOBA

DEPARTMENT OF MINES, RESOURCES & ENVIRONMENTAL MANAGEMENT
THE OIL AND NATURAL GAS CONSERVATION BOARD
901 NORQUAY BUILDING
401 YORK AVENUE
WINNIPEG 1

NOTICE OF HEARING

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Legal subdivision 2 and 7 Section 18

In Township 10 - Range 26 WPM
Legal subdivision 10 Section 2

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Written submissions in respect to the subjects of the Hearing must be submitted to the Board, at Room 901, Norquay Building, Winnipeg, Manitoba, R3C 0P8 on or before July 23, 1973.

J. S. Roper,
Deputy Chairman.

Dated at Winnipeg, Manitoba,
this 21st day of June, 1973.

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VIRDEN-EMPIRE ADVANCE
JUNE 29/73



DEPARTMENT OF MINES, RESOURCES
& ENVIRONMENTAL MANAGEMENT
THE OIL AND NATURAL GAS CONSERVATION BOARD
901 NORQUAY BUILDING
401 YORK AVENUE
WINNIPEG 1

Jas. T. Cawley, P. Eng.
~~XXXXXXXXXX~~ 946-7438
CHAIRMAN
J. S. ROPER 946-7428
DEPUTY CHAIRMAN
M. J. GOBERT 946-7859
MEMBER
R. R. McDANIEL
CONSULTANT

NOTICE OF HEARING

A Public Hearing will be held in the Government Resources Building, 247 Wellington W., Town of Virden, Province of Manitoba on Thursday, July 26th, 1973, commencing at 9 A.M., Central Daylight Time, for the purpose of hearing representations with respect to:

1. A proposal by the Unit Operator for Unit enlargement, Virden-Roselea Unit No. 2, to include the following well location:

In Township 11 - Range 25 WPM

Legal subdivision 6 Section 7

2. An application for Maximum Permissible Rate of Production for the above Enlargement Tract, Virden-Roselea Unit No. 2.
3. An amendment to Part XXVI, clause 26.07 (k)(iii)(a) of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virden-Roselea Unit No. 2".
4. A proposal by Unit Operator for Unit enlargement, and Expansion of the Water Injection System, Virden-Roselea Unit No. 3 to include the following well locations:

In Township 10 - Range 25 WPM

Legal subdivision 2 and 7 Section 18

In Township 10 - Range 26 WPM

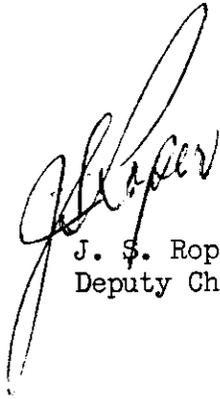
Legal subdivision 10 Section 2

5. An application for a Maximum Permissible Rate of Production for the Enlargement Tracts, Virden-Roselea Unit No. 3.
6. An amendment to Part XXVI, clause 26.07 (k)(iii)(a) of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virden-Roselea Unit No. 3".

7. Such other changes, or amendments to existing Board Orders, as may be necessary to give effect to the foregoing.

Copies of material filed in support of items 1 to 6 inclusive are available at the offices of Chevron Standard Limited, 400 Fifth Avenue S.W., Calgary, Alberta, T2P 0L7.

Written submissions in respect to the subjects of the Hearing must be submitted to the Board, at Room 901, Norquay Building, Winnipeg, Manitoba, R3C 0P8 on or before July 23, 1973.



J. S. Roper,
Deputy Chairman.

Dated at Winnipeg, Manitoba,
this 21st day of June, 1973.

June 19, 1973

F. S. Gansy

Reservoir Engineer

Re: Date of Board Hearing

Enlargement of Unit #2 and #3

Phone call - June 19th, 1973 - 11:00 A.M.

Conservation Board Members:
Jas. T. Cawley, P. Eng., Chairman
J. S. Roper, Deputy Chairman
M.J. Gobert, Member
~~R.R. McDaniel, Consultant~~

Please be advised that I have received a phone call from John D. Scott, Chevron Standard Limited in Calgary, requesting that the date of hearing originally planned for July 19, 1973, be changed to

THURSDAY, JULY 26, 1973

if at all possible.

Because of staff absence on holidays during the first 3 weeks of July, they find it difficult to provide suitable personnel for the July 19th date.

Please advise if the July 30th, 1973 date can be arranged.

F. S. Gansy

ESG/ewl

INTER-DEPARTMENTAL MEMORANDUM



DATE June 13, 1973

FROM DATA CHECK

TO F. S. Gamey

PROVINCE OF MANITOBA

SUBJECT # 2 Unit Enlargement: Participation Factors

| | |
|--|----------------------|
| 55 well production Sept. 1/72 - Feb. 28/73 | 137,496 barrels |
| Tract 6-7-11-25 Sept. 1/72 - Feb. 28/73 | <u>3,912</u> barrels |
| Total production | 141,408 barrels |

Current production factor for 6-7-11-25 $\frac{3,912}{141,408} \times 100 = 2.76646$ percent

Reduction factor for the 55 wells = $1 - .0276646 = 0.9723354$

(Multiply each of the 55 Tract Participation factors by 0.9723354)



MANITOBA

DEPARTMENT OF MINES, RESOURCES
& ENVIRONMENTAL MANAGEMENT
THE OIL AND NATURAL GAS CONSERVATION BOARD

901 NORQUAY BUILDING
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WINNIPEG 1
R3C 0P8

Jas. T. Cawley, P.Eng.

~~XXXXXXXXXXXX~~ 946-7438
CHAIRMAN
J. S. ROPER 946-7428
DEPUTY CHAIRMAN
M. J. GOBERT 946-7859
MEMBER
R. R. McDANIEL
CONSULTANT

June 13, 1973

Mr. R. R. McDaniel
McDaniel Consultants (1965) Ltd.
800 Western Union Building
640 - 8th Avenue S.W.
CALGARY 2, Alberta

Dear Rod:

Enclosed are copies of applications by Chevron Standard Limited to enlarge Virden-Roselea Units No. 2 and No. 3 and to expand the water injection system in Unit No. 3. We are attempting to arrange hearings in Virden for July 19, 1973.

The proposals set forth in the applications appear straight forward. However if you foresee any problems we would appreciate your advice or review of the support data submitted.

Yours sincerely,

J. S. Roper
Deputy Chairman

FSG/evh

Enclosures



MANITOBA

DEPARTMENT OF MINES, RESOURCES
& ENVIRONMENTAL MANAGEMENT
THE OIL AND NATURAL GAS CONSERVATION BOARD

901 NORQUAY BUILDING
401 YORK AVENUE
WINNIPEG 1

R3C OP8

Jas. T. Cawley, P.Eng.

| | |
|------------------------|----------|
| W. W. DIXON | 946-7438 |
| CHAIRMAN | |
| J. S. ROPER | 946-7428 |
| DEPUTY CHAIRMAN | |
| M. J. GOBERT | 946-7859 |
| MEMBER | |
| R. R. MCDANIEL | |
| CONSULTANT | |

June 13, 1973

Mr. Lindsey Brown, Chairman
Virден-Roselea Unit No. 2 and No. 3
Box 100
VIRDEN, Manitoba
ROM 200

Dear Sir:

Re: Application for Unit Enlargement
Virден-Roselea Unit No. 2 and No. 3

This will acknowledge receipt of applications for the enlargement of the above Units.

We are attempting to arrange a hearing in Virден, Manitoba on Thursday, July 19, 1973. If this date is satisfactory to you, we will proceed with final arrangements.

Would you please submit a list of names and addresses of the Working Interest owners and the Royalty Owners in the enlargement Tracts referred to in the applications, in order that notification of the date of the hearing can be sent out, when same is finalized.

Yours truly,

J. S. Roper
Deputy Chairman

FSG/evh
c.c. J. C. Trowell

INTER - DEPARTMENTAL MEMORANDUM



DATE June 8, 1973.

FROM M. J. Gobert,

TO Mr. J. S. Roper,

Senior Assistant Deputy Minister.

PROVINCE OF MANITOBA

Director of Mines.

SUBJECT OIL AND NATURAL GAS CONSERVATION BOARD -

APPLICATION FOR HEARINGS

Department of Mines
and Geological Survey
JUN 11 1973
5928
DIRECTOR OF MINES

F.S.G.

Please acknowledge receipt of applications with respect to Virden-Roselea Unit No. 2 and Virden-Roselea Unit No. 3, to the effect that you are attempting to arrange Hearings in Virden, Manitoba, on or about Thursday, July 19, 1973.

If this date is satisfactory to the applicants, you will then advise them of final arrangements.

M. J. Gobert
M. J. Gobert

MJG/as
Att.



Chevron Standard Limited

400 - Fifth Ave. S.W., Calgary, Alberta T2P 0L7

May 30, 1973

The Oil and Natural Gas Conservation Board
Room 310, Legislative Building
Winnipeg, Manitoba
R3C 0V8

Attention: Mr. J. T. Cawley, P. Eng.
Chairman

Gentlemen:

Chevron Standard Limited, as Unit Operator of Virden-Roselea Unit No. 2, under and pursuant to The Mines Act, Chapter M160, Revised Statutes of Manitoba, 1970 and Amendments thereto, hereby, on behalf of the Working Interest Owners in Virden-Roselea Unit No. 2, and on behalf of Chevron Standard Limited and Bracell Petroleum Limited requests The Oil and Natural Gas Conservation Board to hold a hearing to consider for approval the following:

1. Proposal for Unit Enlargement of Virden-Roselea Unit No. 2, pursuant to Section 79 of The Mines Act.
2. Application for a Maximum Permissible Rate of Production for the Enlargement Tracts pursuant to Section 62 of The Mines Act.
3. Amendment to Part XXVI, Clause 26.07 (k) (iii) (a) of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virden-Roselea Unit No. 2" pursuant to Part VI, Clause 6.03 (j) of the above "Plan" and also Section 78 (3) of The Mines Act.

In support of this application, Chevron Standard Limited will endeavour to file with the Board, consents to this application signed by at least 75% of the Working Interest Owners in Virden-Roselea Unit No. 2 and consents to the application for enlargement only, by at least 75% of the owners of the royalty interest and working interest in the enlargement tracts.

Respectfully submitted,

for  P. Eng.
L. D. BROWN, Chairman
Virden-Roselea Unit No. 2
Operating Committee

SNBorowski/lw
Attachments

A. Proposal for Unit Enlargement of Virden-Roselea Unit No. 2

It is proposed that tract 6-7-11-25 be included in Virden-Roselea Unit No. 2 by means of enlargement. (See Figure 1.) This tract adjoins the present Virden-Roselea Unit No. 2 area, and has a well situated thereon which is completed in the producing horizon that is a lateral extension of the formation that is unitized in Virden-Roselea Unit No. 2. This well was placed on production in November 1971 and has since produced oil in commercial quantities. During a current six month production period specified as September 1, 1972 to February 28, 1973, the well produced an average of 22 BOPD with a water cut of 64 percent.

There are mutual benefits to the owners of the Royalty Interest and Working Interest in the proposed enlargement tract and in the present Virden-Roselea Unit No. 2. The enlargement tract will be capable of producing more reserves under the more efficient unit operating conditions. Lower operating cost will result in a lower economic producing limit. The present Virden-Roselea Unit No. 2 will benefit because the enlargement tract will contribute more reserves than the participation factor allocates.

Tract Participation

Part III of the "Plan for Unit Operation Governing the Unitized Management and Further Development of Virden-Roselea Unit No. 2" discloses the method originally used for determining tract participation for each tract as one-half (1/2) of each of the following:

- (a) a current production factor
- (b) a penalized average monthly oil production factor.

An identical formula was utilized in determining tract participations for fifteen of the Enlargement No. 1 tracts. The remaining three tracts in the enlargement received token participations.

For this enlargement, it is proposed that participation be calculated based on current production. Evidence of pressure support in the proposed enlargement well, and surrounding Virden-Roselea Unit No. 2 wells indicate that the area is receiving some waterflood response. Since both the enlargement well and Virden-Roselea Unit No. 2 are producing under pressure maintenance, current production represents both the present and future worth of the enlargement well.

The proposed current production period for the 55 well unit and enlargement tract is September 1, 1972 to February 28, 1973. As well as being a recent six months of production, this interval best represents the present capability of 6-7-11-25. The tract factor based on current production from September 1, 1972 to February 28, 1973 is 2.76646 percent.

It is proposed that upon tract 6-7-11-25 being admitted into Virden-Roselea Unit No. 2, the Tract Participation of all tracts within the Unit area prior to enlargement and after enlargement will remain the same one to the other by multiplying each of the Tract Participations by the factor $(1.0000000 - 0.0276646)$ or .9723354.

Production Reserves

Figure 2 represents the production history of 6-7-11-25. Cumulative production to December 31, 1972 was 13,075 barrels.

The estimated original oil-in-place for the enlargement well is 506,000 barrels. The predicted ultimate recovery for the well, as part of the unit, is 140,000 barrels, of which 60,000 barrels are primary reserves. The estimated allocable reserves to the enlargement well, as part of the Unit, as of December 31, 1972 is 109,000 barrels. The estimated remaining reserves of the enlargement tract as of December 31, 1972 is 127,000 barrels.

Enlargement Tract Requirements

Upon the proposed enlargement tract being admitted to the Unit, it is proposed that the Working Interest Owners of this enlargement tract participate in the investment account established by Part X of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virden-Roselea Unit No. 2," dated April 1, 1966, as of the effective date of this enlargement.

It is proposed that the Working Interest Owners of the enlargement tract contribute \$2,500 as their proportionate share of the unit investment for the injection plant, water supply system, battery consolidation and well conversions. In addition to this expenditure it is proposed that the expense to tie in the well to unit facilities also be the responsibility of the enlargement tract. The enlargement tract would, however, retain ownership of the battery facilities.

B. Application for a Maximum Permissible Rate of Production for the Well on the Enlargement Tract

The applicants propose that the same production flexibility that has been permitted for the original Virden-Roselea Unit No. 2 also be provided for the enlarged Unit.

Currently the production at the enlargement tract may be considered to be unrestricted since the well on this tract is producing at capacity. It is the applicants' contention that no reservoir damage has resulted from producing the well at capacity.

The present waterflood project may, at some future date, increase the productive capacity of the enlargement tract. There is no reason to believe that reservoir damage would result from producing the increased capacity at unrestricted rates.

The applicants respectfully request that, on and after the effective date of enlargement, the well on the tract brought in by enlargement be excluded from any provisions governing the limitations and allocation of oil production.

C. Amendment to Part XXVI, Clause 26.07 (k) (iii) (a) of the "Plan for Unit Operation Governing the Unitized Management Operation and Further Development of Virden-Roselea Unit No. 2"

The Unit Operator has reviewed the district and administrative overhead charges to the Unit under Part XXVI, Clause 26.07 (k) (iii) (a) of the "Plan" resulting from the proposed addition of one well to the 55 well Unit. The result of this review is a proposed increase of \$60 per month.

Approval to increase the charges, under the subject clause, by \$60 per month to a new total of \$3,510 per month was obtained by mail ballot. It is therefore requested that the "Plan" be amended by replacing the wording in Part XXVI, Clause 26.07 (k) (iii) (a) with the following:

"\$3,510 per month for all producing operations."

Pursuant to Part VI, Clause 6.03 (j) of the "Plan" and Section 78 (3) of The Mines Act, the applicants hereby respectfully request the Board to consider and approve the proposed district and administrative overhead charges and proposed amendment to the "Plan" in conjunction with the proposed Unit enlargement.

R. 26

R. 25

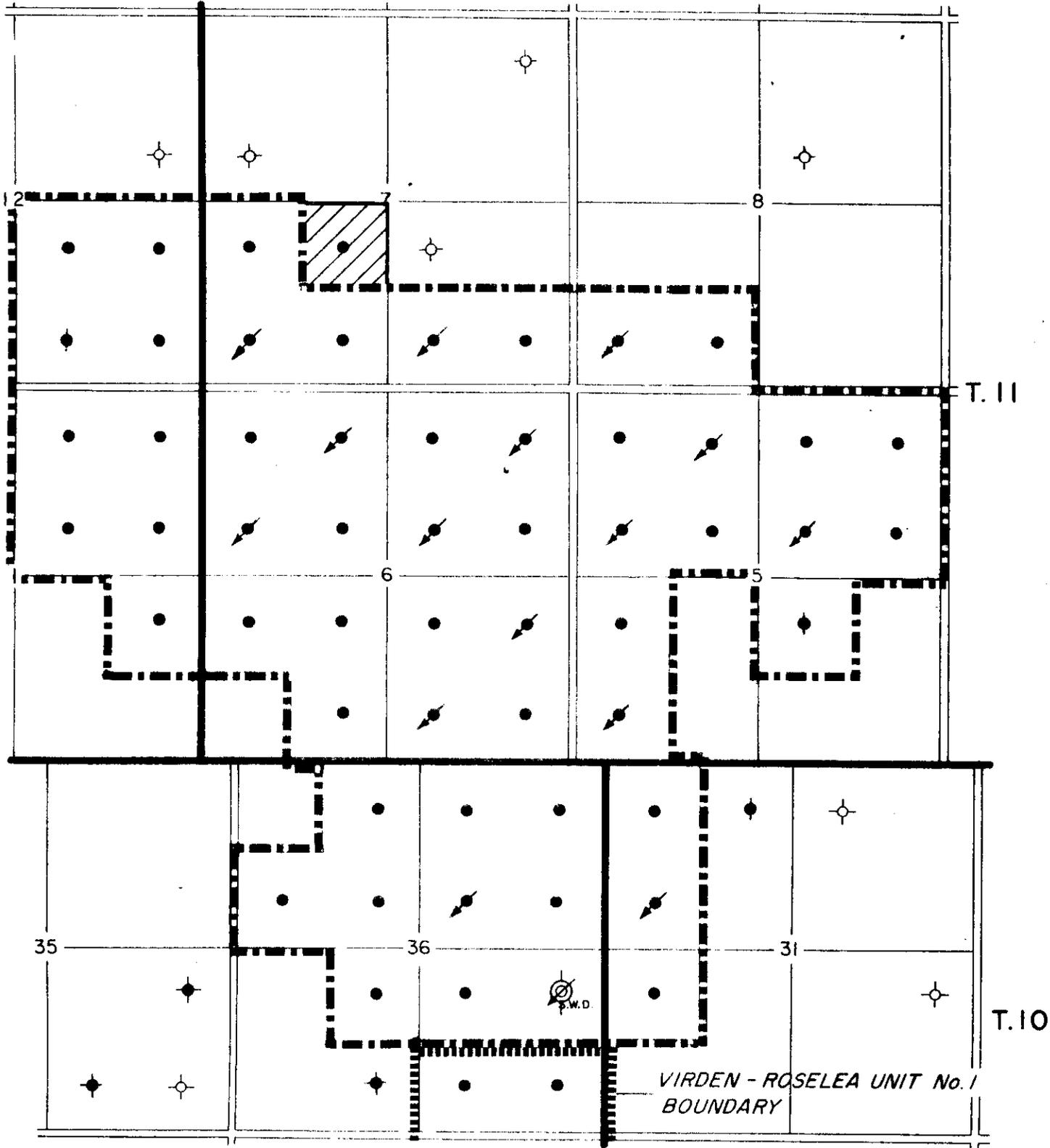


FIGURE 1
 VIRDEN-ROSELEA UNIT No. 2

LEGEND

- UNIT BOUNDARY
- ⊘ INJECTION WELL
- S.W.D. WELL
- ⊕ SUSPENDED WELL
- + ABANDONED WELL

 PROPOSED ENLARGEMENT OF UNIT BOUNDARY

FIGURE 2
 PRODUCTION HISTORY
 CHEVRON BRACELL VIRDEN 6-7-11-25

