

January 13, 1971

F. S. GAMEY  
Reservoir Engineer

M.J. GODERT - Senior Assistant Deputy  
Minister  
J. S. ROPER - Director of Mines

Explanation - Table #II (copy attached)

RE: Last column -                      Injection Rate  
   w/Prac. Press.  
   Exceeded

This is the "proposed" volume of water that would be injected  
at 1500 p.s.i. (in barrels of water per day)

The injectivity index at 1500 p.s.i. (BWPD/psi) for the well  
12-1-10-23 is shown as .124.

The volume of water to be injected is shown as 186 in the last  
column - Injection Rate w/Fracture Pressure Exceeded.

$$\frac{186}{1500} = .124$$

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ROUTE SLIP

TO

Mr. J. S. Roper

FROM

M. J. Gobert

TO

FROM

Attention: F. S. Gamey

☐ For your approval or revision

☐ Reply direct with copy to me

☐ Please sign

☐ For your information

☐ Please supply data for my  
reply

☐ Please return

☐ Please take action

☐ Return with comments  
and/or recommendations

☐ Please see me

☐ Extracts of minutes for your  
information and action

☐ Investigate and report

☐ Please phone

☐ Please draft reply for signature of

Date

11/1/71

Subject

Message

1. I believe you are proceeding with Pressure  
Maintenance Order.

2. Please give me an explanation of last column  
Table II.

"M.J.G."

MNR-A-94

Use reverse side if necessary



# CHEVRON STANDARD LIMITED

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

December 30, 1970

Daly High Pressure Pilot  
Injection Scheme

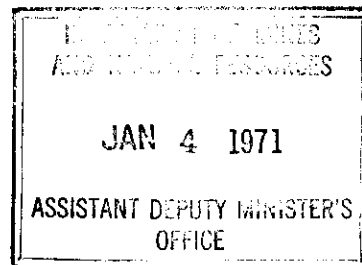
The Oil and Natural Gas Conservation Board  
Department of Mines and Natural Resources  
Province of Manitoba  
Legislative Building  
Winnipeg 1, Manitoba

Attention: Mr. M. J. Gobert

Gentlemen:

In order to expedite the issuance of a Pressure Maintenance Order for a pilot high pressure injection scheme in the Chevron Standard waterflood area in the Daly Field, we submit the following:

1. Updated versions of the following exhibits included in our application dated January 27, 1970:
  - (a) Table II
  - (b) Figure 3
  - (c) Figure 5
  - (d) Figure 6
  - (e) Figure 7
  - (f) Figure 8
2. In order to monitor the progress of the pilot, we suggest the following procedure be considered and adopted:
  - (a) With the approval of the scheme, injection at a surface pressure of 1,300 psig be permitted. Inasmuch as surface pressures have exceeded 1,300 psig in the Rundle Daly pilot injection scheme with no evidence of any detrimental effects, we contend that injection into the applied-for pilot at this pressure will also result in no detrimental effects.
  - (b) At the conclusion of one full month of injection at or near 1,300 psig, Chevron will submit to the Board a resume of the injection and production for the pilot, along with a request for permission to inject at a maximum surface pressure of 1,400 psig, provided that there is no evidence of any detrimental effects from the high pressure injection to that time.



December 30, 1970

- (c) Thereafter, monthly resumes will be submitted with requests for additional pressure increments as deemed desirable for the expeditious evaluation of the pilot scheme.
3. Inasmuch as one of the objectives of the pilot scheme is to establish what additional injectivity can be realized with increased pressure, we request that, if any restriction is necessary, it be a volume restriction of 600 BWPD. Water was injected into the proposed pilot scheme injection well at this rate during its injection history.

If we can provide any additional information or data on this proposed project, please contact us.

Yours very truly,

*for* *Plisio*  
J. G. TROWELL  
Division Superintendent  
Producing Department  
Calgary Division

PP/cs  
Enclosures

42

TABLE II  
(Updated December 1970)

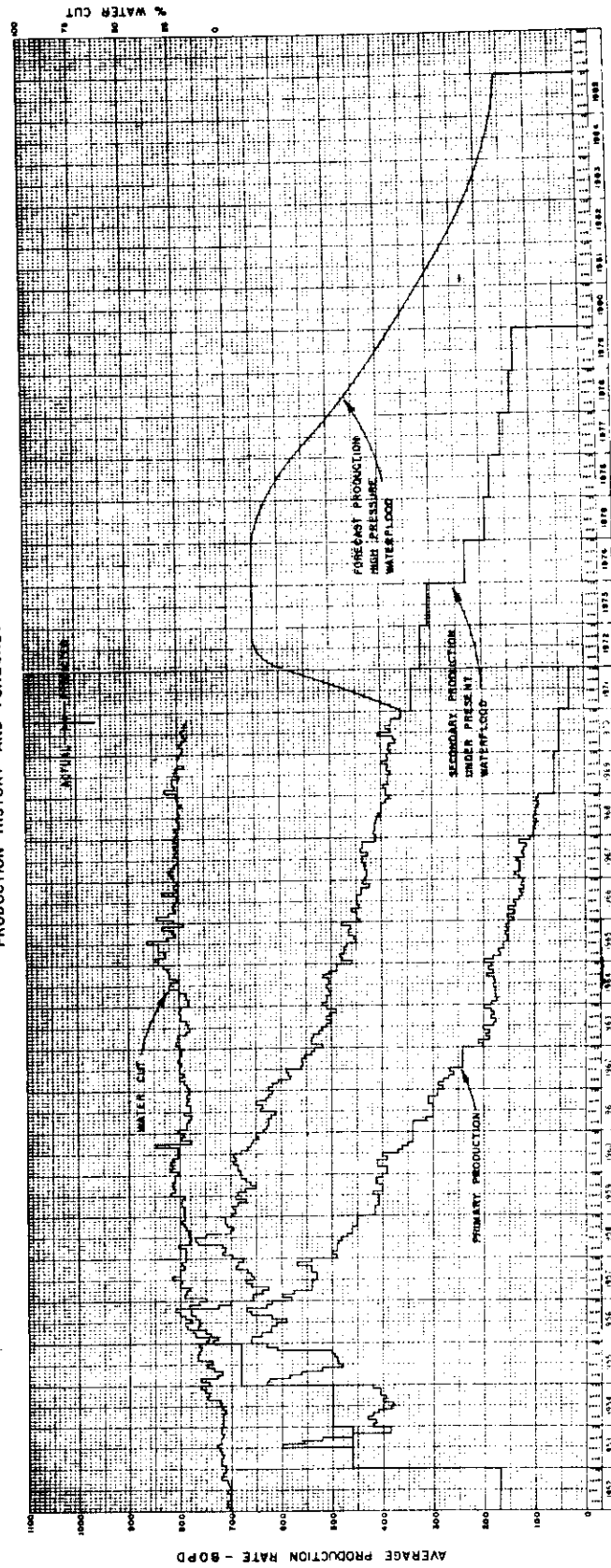
DAILY INJECTION - BELOW AND ABOVE FRACTURE PRESSURE

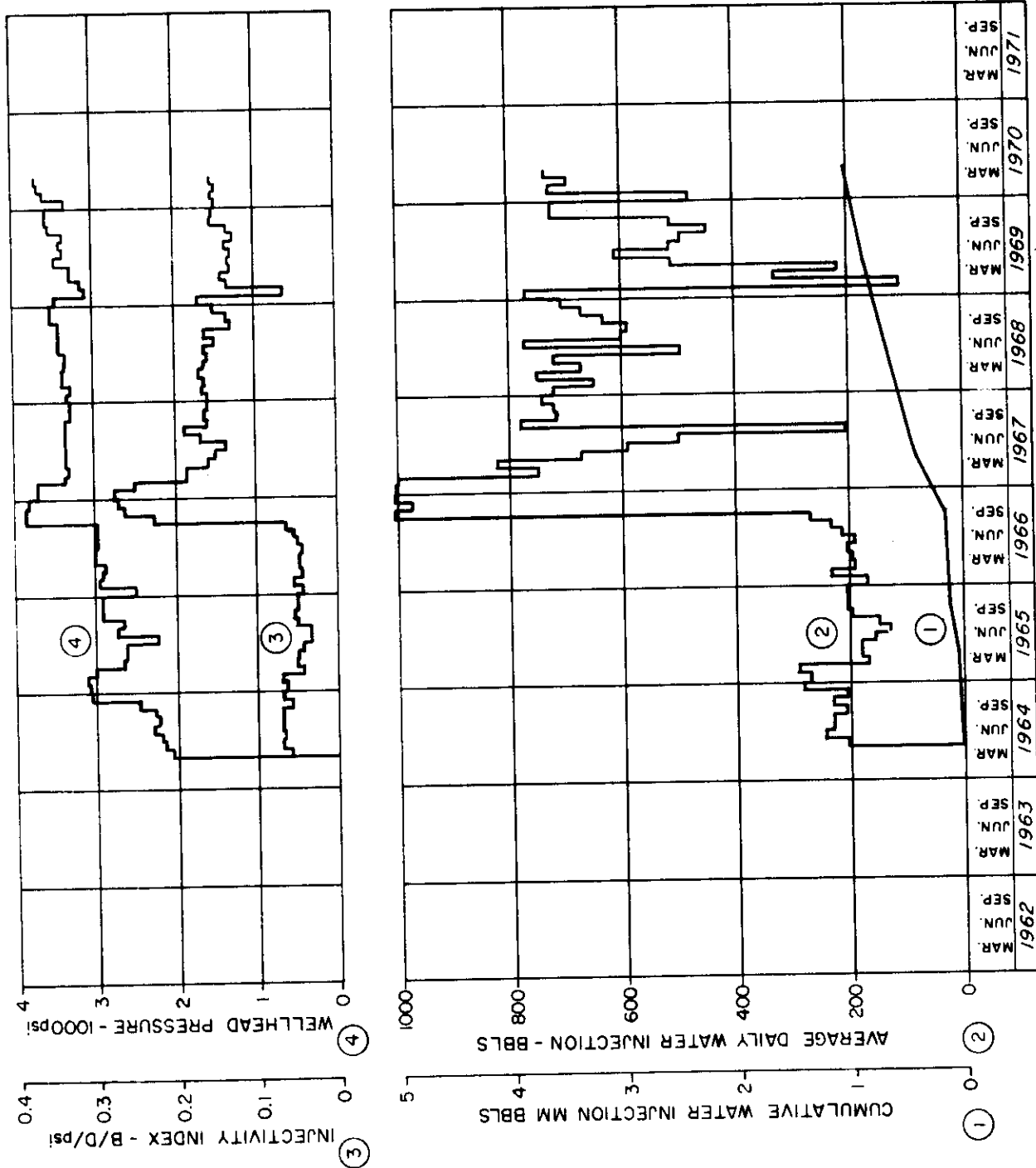
PROPOSED  
INJECTION RATE  
BHPD / 1500 PSI

<u>Well</u>	<u>Injection Rate</u> <u>November 1970</u> <u>BHPD</u>	<u>Injectivity Index</u> <u>@ 1,080 psi</u> <u>BHPD/psi</u>	<u>Injectivity Index</u> <u>@ 1,500 psi</u> <u>BHPD/psi</u>	<u>Injection Rate</u> <u>w/Frac. Press.</u> <u>Exceeded</u>
<u>Effective</u>				
12-1-10-28	67	.062	.124	186
14-1-10-28	20	.019	.038	57
16-2-10-28	93	.086	.172	258
2-11-10-28	77	.071	.142	213
8-11-10-28	32	.030	.060	90
14-11-10-28	17	.016	.032	48
2-12-10-28	104	.096	.192	288
4-12-10-28	64	.059	.118	177
6-12-10-28	46	.043	.086	129
8-12-10-28	40	.037	.074	111
10-12-10-28	185	.171	.342	400*
12-12-10-28	70	.065	.130	195
14-12-10-28	255	.236	.472	400*
4-13-10-28	<u>140</u>	.130	.260	<u>390</u>
Subtotal	1,210			2,942
<u>Ineffective</u>				
16-1-10-28	-			300*
10-11-10-28	356			300*
12-11-10-28	<u>131</u>			<u>300*</u>
Total	1,697			3,842

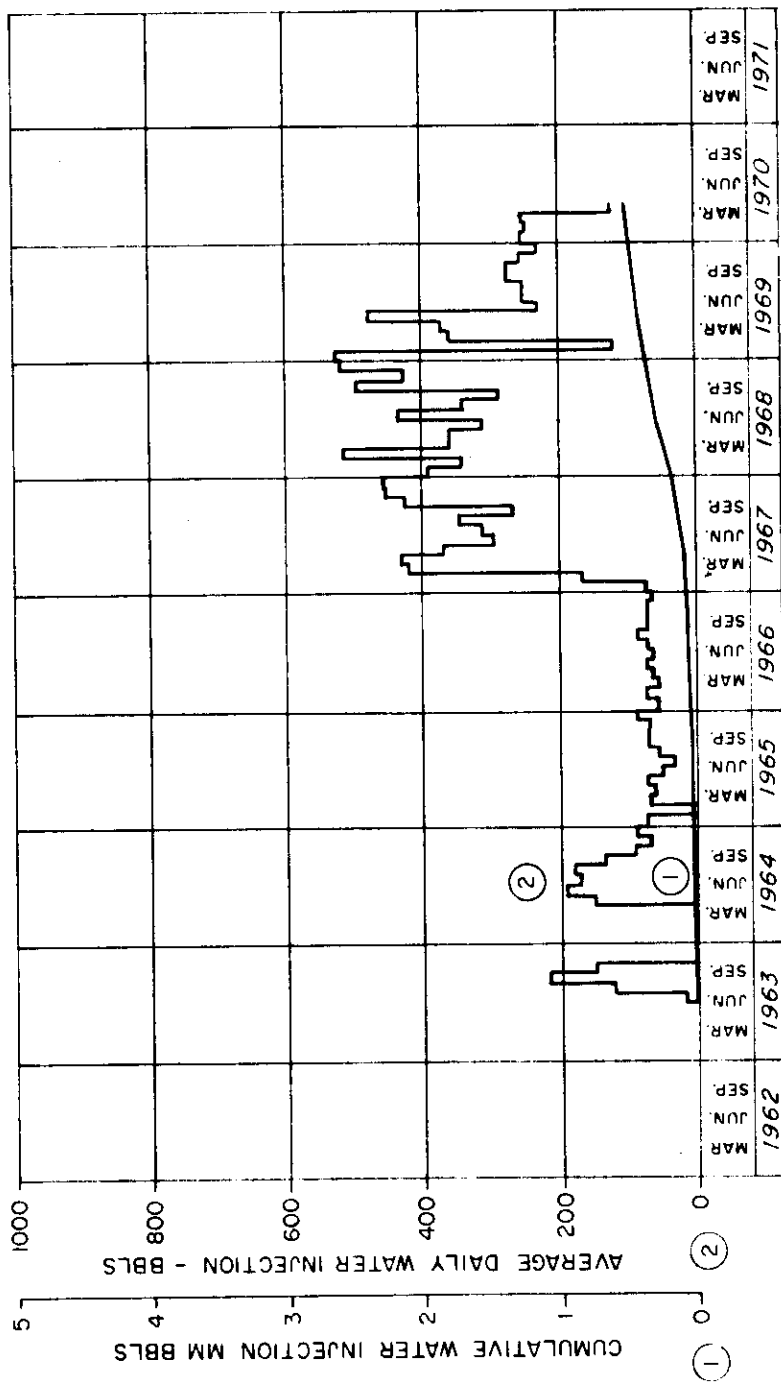
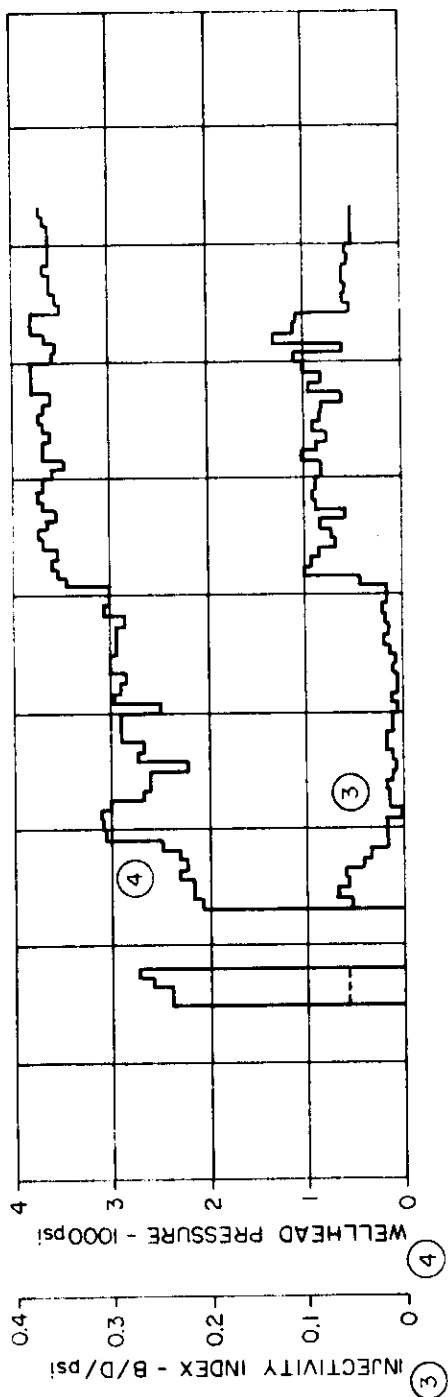
\*Maximum Rate

FIGURE 3  
DAILY WATER FLOOD  
PRODUCTION HISTORY AND FORECAST





DEER MOUNTAIN UNIT No.1  
INDIVIDUAL WELL INJECTION PERFORMANCE  
4 - 7 - 69 - 8 - W5M

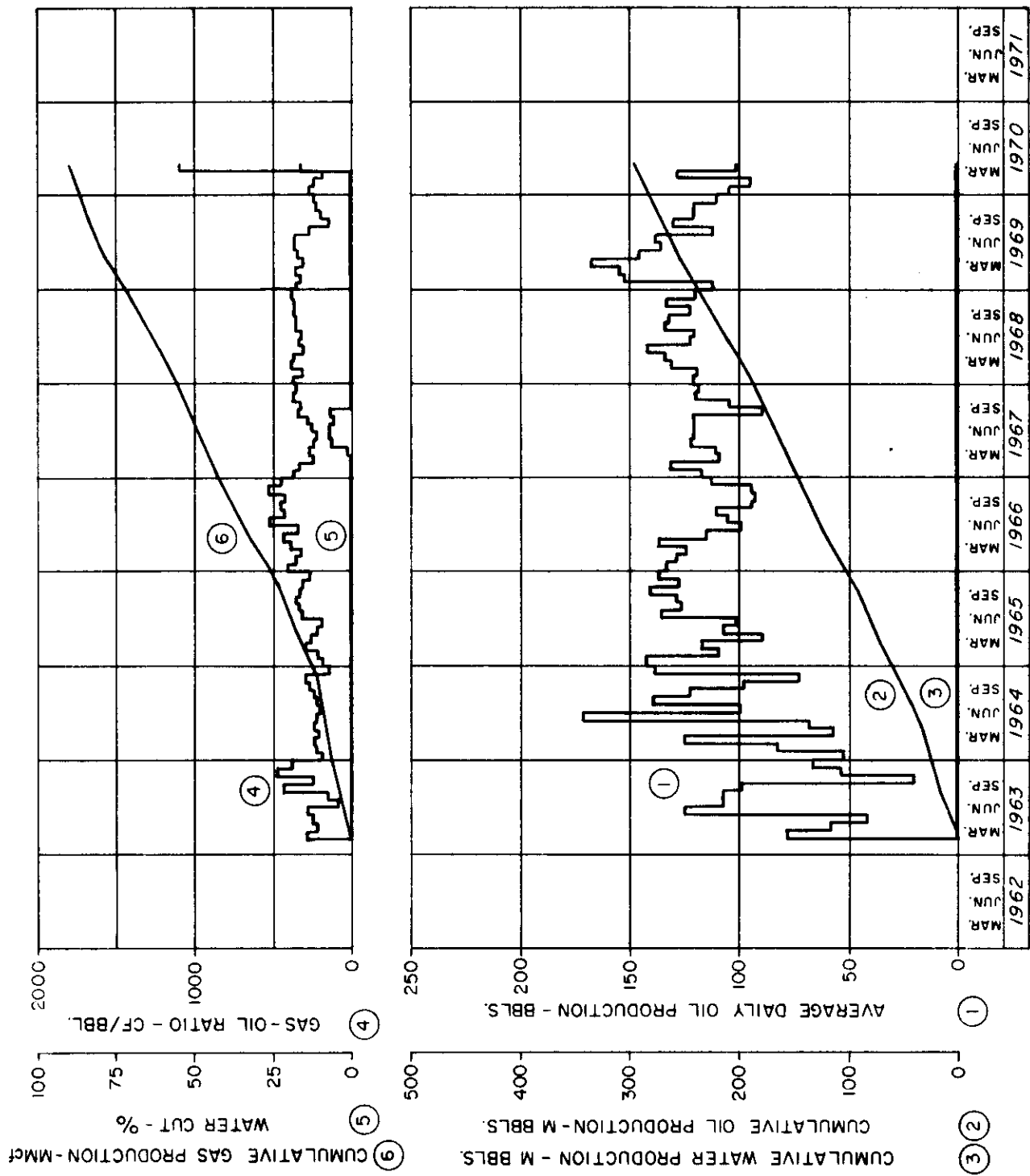


DEER MOUNTAIN UNIT No.1  
INDIVIDUAL WELL INJECTION PERFORMANCE

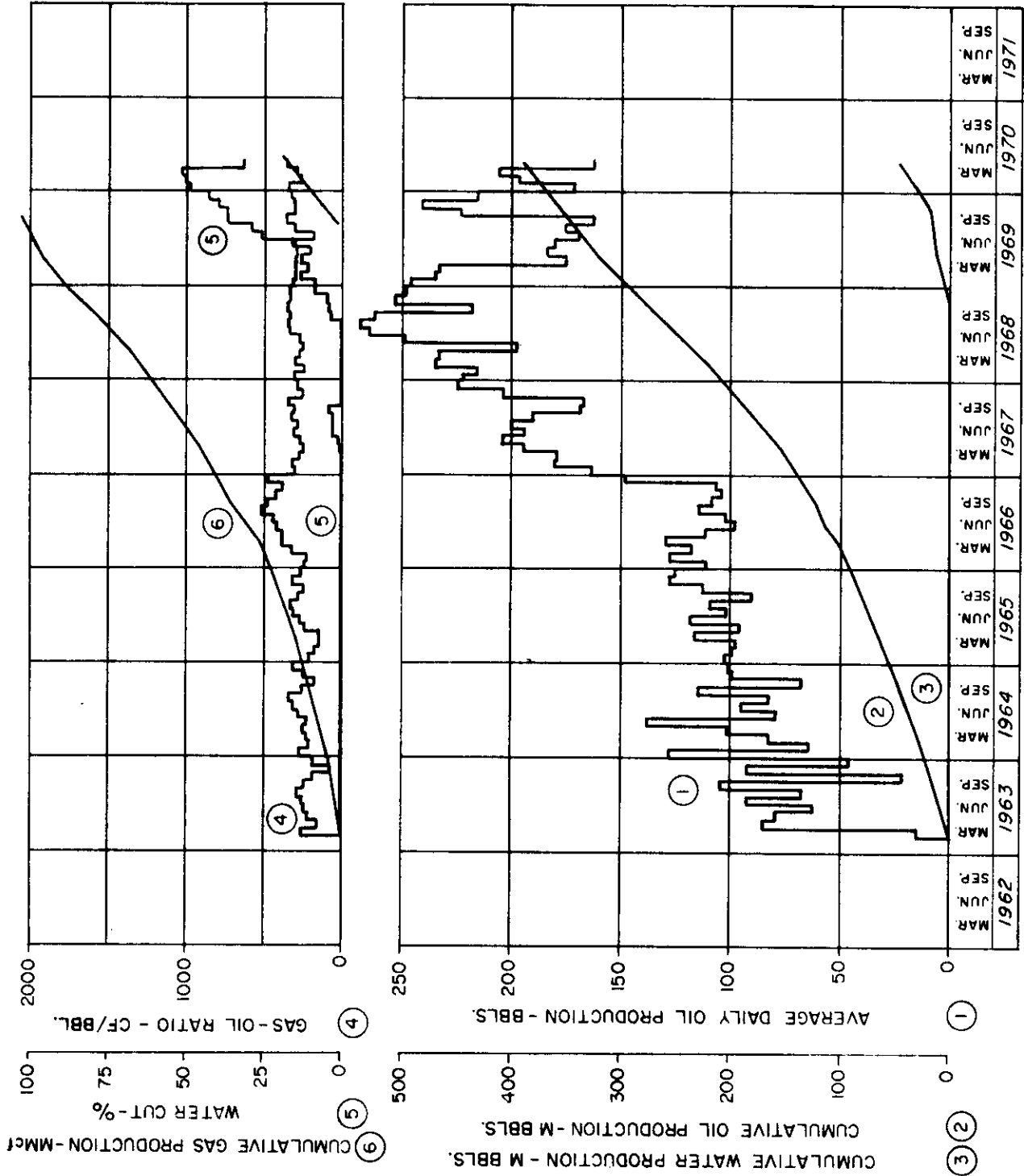
4-6-69-8-W5M

FIGURE 6





DEER MOUNTAIN UNIT No.1  
 INDIVIDUAL WELL PRODUCTION PERFORMANCE  
 12-5-69-8-W5M



DEER MOUNTAIN UNIT No.1  
 INDIVIDUAL WELL PRODUCTION PERFORMANCE  
 12-7-69-8-W5M

42

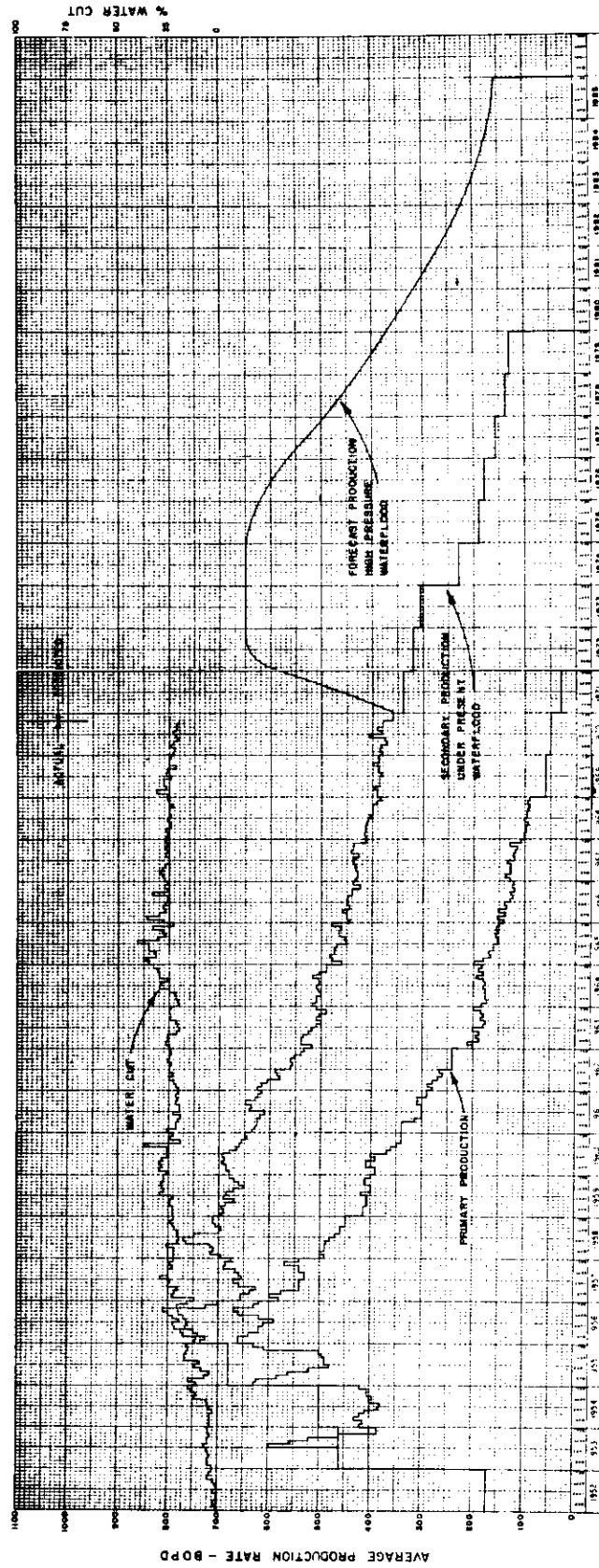
**TABLE II**  
(Updated December 1970)

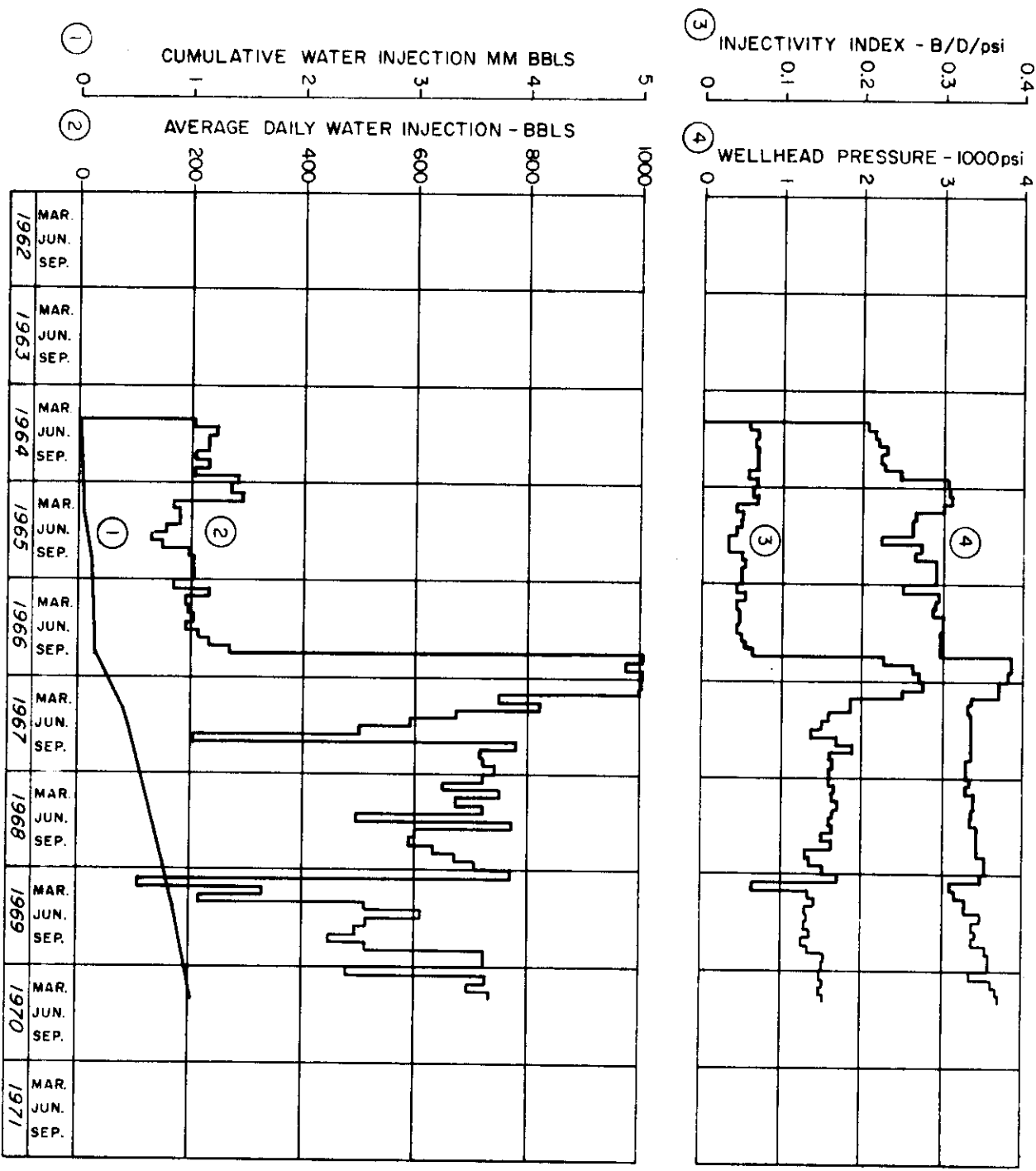
**DAILY INJECTION - BELOW AND ABOVE FRACTURE PRESSURE**

<u>Well</u>	<u>Injection Rate</u> <u>November 1970</u> <u>BWPD</u>	<u>Injectivity Index</u> <u>@ 1,080 psi</u> <u>BWPD/psi</u>	<u>Injectivity Index</u> <u>@ 1,500 psi</u> <u>BWPD/psi</u>	<u>Injection Rate</u> <u>w/Frac. Press.</u> <u>Exceeded</u>
<b><u>Effective</u></b>				
12-1-10-28	67	.062	.124	186
14-1-10-28	20	.019	.038	57
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2-11-10-28	77	.071	.142	213
8-11-10-28	32	.030	.060	90
14-11-10-28	17	.016	.032	48
2-12-10-28	104	.096	.192	288
4-12-10-28	64	.059	.118	177
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8-12-10-28	40	.037	.074	111
10-12-10-28	185	.171	.342	400*
12-12-10-28	70	.065	.130	195
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10-11-10-28	356			300*
12-11-10-28	<u>131</u>			<u>300*</u>
Total	1,697			3,842

\*Maximum Rate

FIGURE 3  
DAILY WATER FLOOD  
PRODUCTION HISTORY AND FORECAST



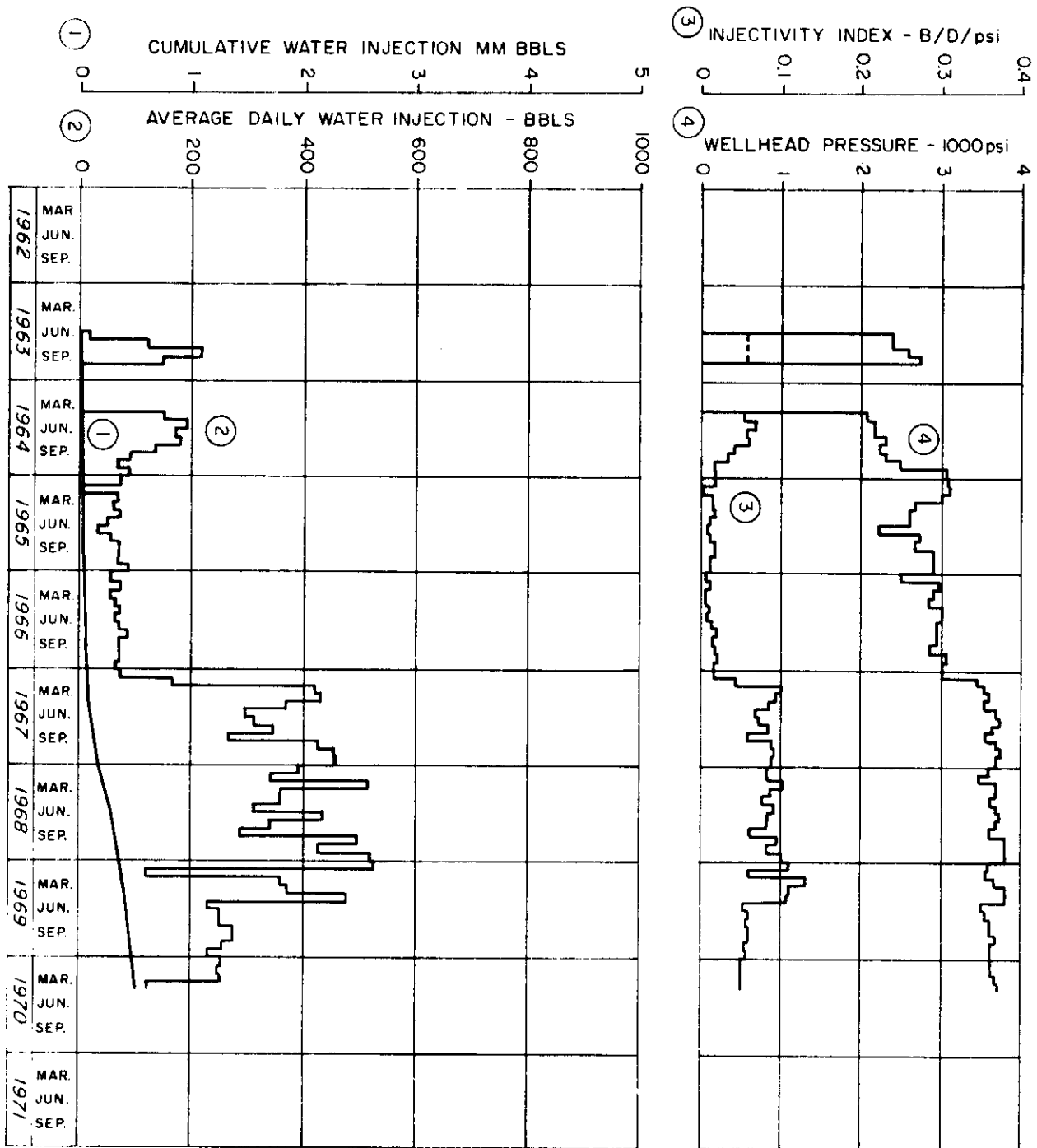


DEER MOUNTAIN UNIT No.1

INDIVIDUAL WELL INJECTION PERFORMANCE

4-7-69-8-WSM

FIGURE 5



DEER MOUNTAIN UNIT No. 1  
INDIVIDUAL WELL INJECTION PERFORMANCE

4-6-69-8-W5M

FIGURE 6

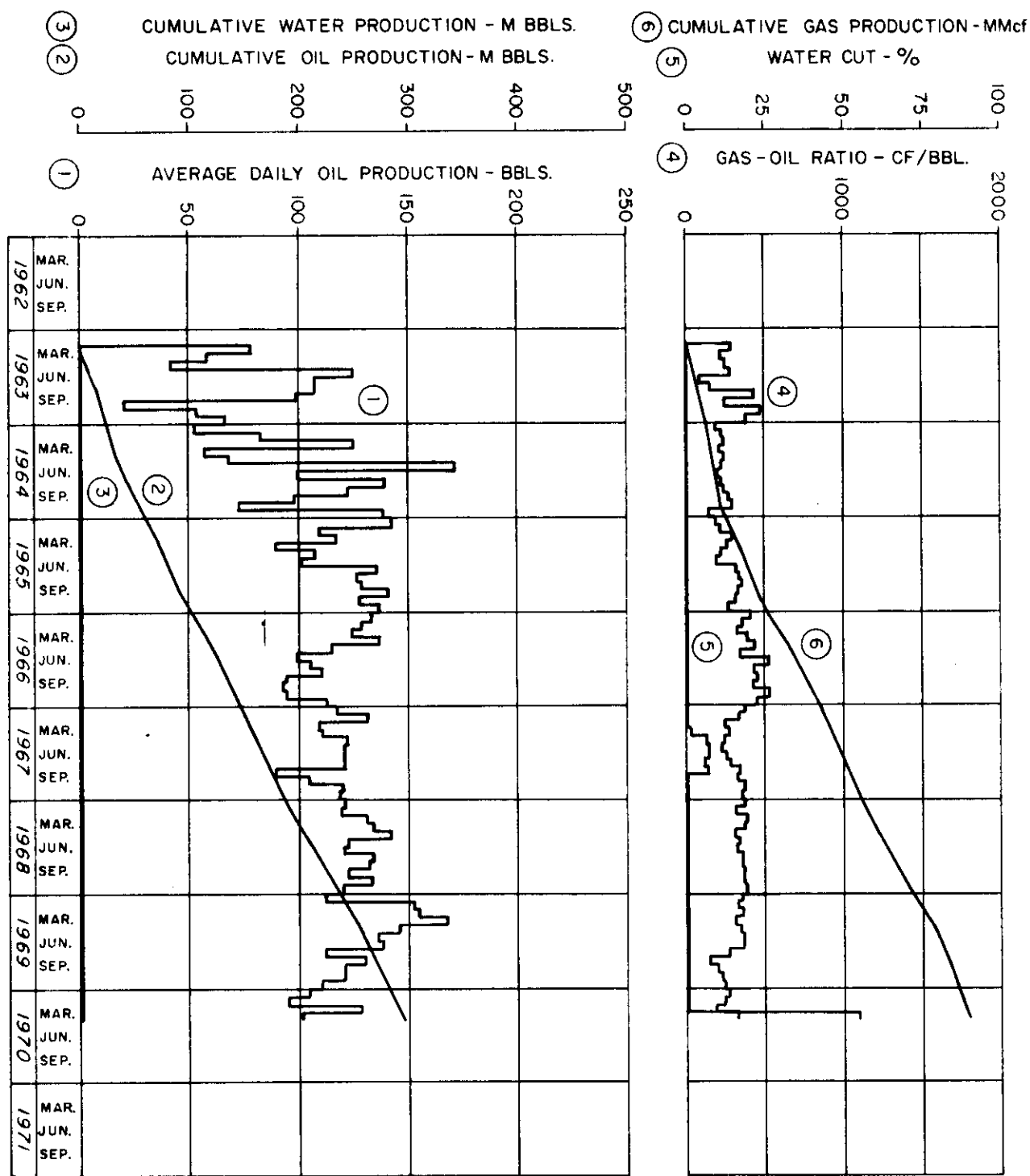
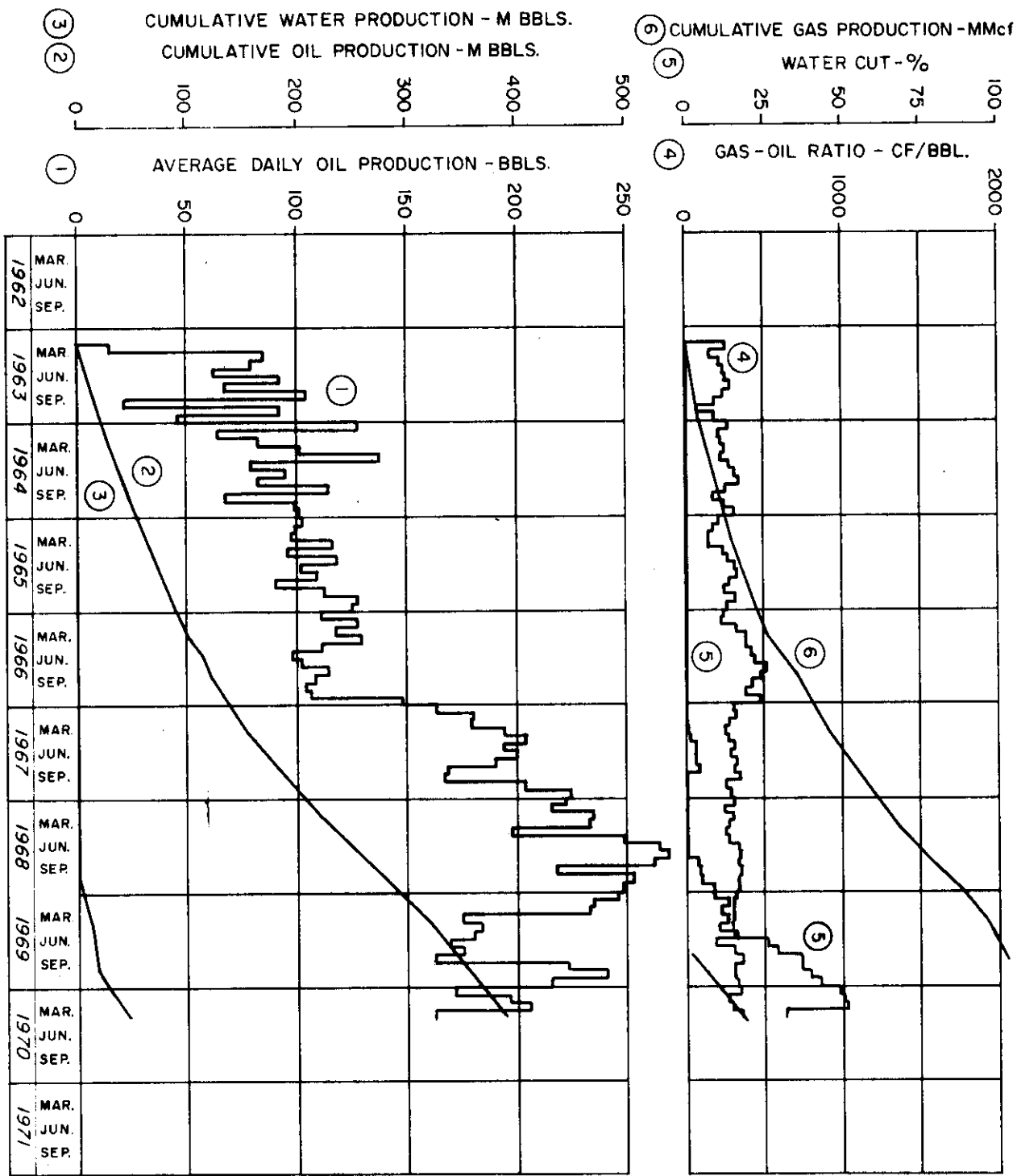


FIGURE 7



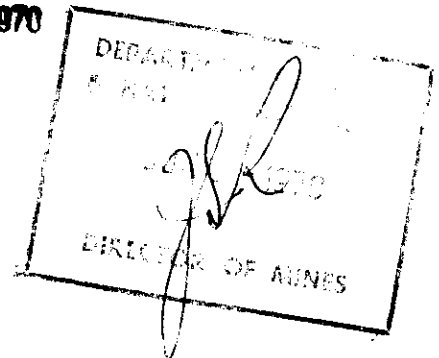
DEER MOUNTAIN UNIT No. 1  
INDIVIDUAL WELL PRODUCTION PERFORMANCE  
12-7-69-8-W5M

FIGURE 8



COPY

JUN 2 1970



Mr. J.W. Clarke,  
Box 999,  
Virden, Manitoba.

Dear Mr. Clarke:

Re: Daly Waterflood Plan

Regarding your inquiry concerning the Daly Waterflood area, I have been advised by my Department that the possibility of unitizing the Tracts involved in the waterflood area was raised at a meeting of The Oil and Natural Gas Conservation Board held in Virden on March 19, 1970.

At this hearing, Chevron Standard Limited requested approval of a pilot high pressure waterflood scheme in the Daly Waterflood area. Following the presentation of the plan, the Board asked the applicant to give thought to some form of unitization in the area before considering any full-scale high pressure flood.

In replying to this request by the Board, Mr. P. Pisio, acting on behalf of the applicant, stated that they would look into the practicality and feasibility of unitizing at such time as they were going to a full-scale high pressure flood.

As a further hearing of the Board is necessary before any approval can be given to a high pressure waterflood scheme, the matter of unitization and form of participation for the Tracts involved could be discussed at that time.

A copy of our correspondence will be forwarded to The Oil and Natural Gas Conservation Board.

Yours sincerely,  
Original Signed By  
SID GREEN, Minister

Sidney Green,  
Minister.

PSG:ia

J.S. Roper

DEPARTMENT OF MINES AND NATURAL RESOURCES  
ROUTE SLIP

TO J. S. Roper	FROM A. D. Bourgeois
TO F. S. Gamey	FROM

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> For your approval or revision  | <input type="checkbox"/> Reply direct with copy to me                | <input type="checkbox"/> Please sign   |
| <input type="checkbox"/> For your information   | <input type="checkbox"/> Please supply data for my reply             | <input type="checkbox"/> Please return |
| <input type="checkbox"/> Please take action   | <input type="checkbox"/> Return with comments and/or recommendations | <input type="checkbox"/> Please see me |
| <input type="checkbox"/> Extracts of minutes for your information and action                        | <input type="checkbox"/> Investigate and report                      | <input type="checkbox"/> Please phone  |
| <input checked="" type="checkbox"/> Please draft reply for signature of Hon. Sidney Green, Minister |  |  |

Date	20/5/70	Subject
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Message	<div></div>

MNR-A-94

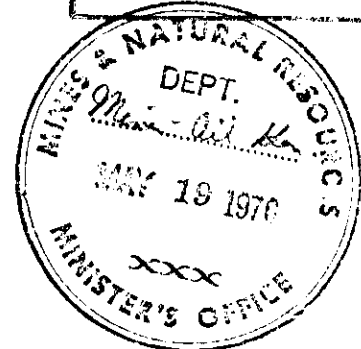
Use reverse side if necessary

DEPARTMENT  
& NATURAL

MAY 18 1970

Box 999  
Virden, Manitoba  
May 15, 1970

DIRECTOR OF MINES



Minister of Mines & Natural Resources  
Legislative Buildings  
Broadway Avenue  
Winnipeg, Manitoba

Honourable Sidney Green

Dear Sir:

Re: Original Daly Field Water Flood plan

The writer would be interested to know if your department is making further studies regarding future plans for institution of a more equitable form of participation of the oil production from the tracts defined as the Daly Water Flood area.

In the interests of several Mineral and Royalty owners, and writing specifically as a royalty owner myself, I would like to see the area unitized on a basis comparative to the Roselea and North Virden (Scallion) units, whereby the participation factor is justly calculated to the benefit of all concerned within the designed unit.

Yours very truly

*J.W. Clarke*

JWC:fr

J.W. Clarke

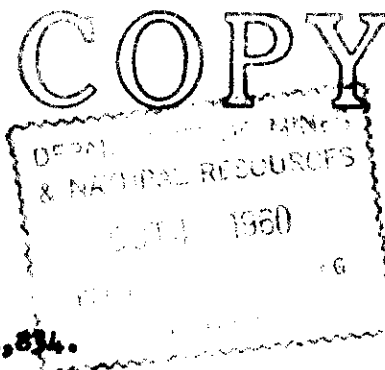
DEPARTMENT OF MINES  
& NATURAL RESOURCES

MAY 21 1970

PETROLEUM ENGINEERING  
DIVISION

Director of Mines

Oil and Natural Gas -  
Daly Water Flood -  
Document No. 52,834.



Mr. J. G. Cowan, Q.C.,  
Deputy Minister.

September 30, 1960.

I regret the delay in replying to your memo of September 9th, enclosing the Minister's memo asking certain questions in respect to the Daly Water Flood in general, and Document No. 52,834 in particular.

You will recall that, during my absence, you corresponded with Mr. Gobert relative to an informal request from The California Standard Company to further expand this flood. The company's formal application has now been received, and a copy is attached, hereto. You will note that one of the wells, which the company desires to convert, is Calstan Prov. 8-12-10-28 which terminates Document No. 52,834. If the Conservation Board approves this application, there would appear to be no point in now forwarding this document to the company.

As previously mentioned, we feel that this application should be one of the items on the agenda of a Conservation Board Hearing, to be held November 8th. The suggested "Notice", in respect to this Hearing, will be submitted in a day or two.

I believe the questions in the last paragraph of the Minister's memo can best be answered by briefly describing the basis of the allocation from the flood area. As you know, each producing well, except on the margins of the flood, is surrounded by four injection wells, all of which assist in increasing production from the central well. The only way the injection wells can share in the production lost by conversion and in the increased production resulting from the flood is to be allocated a portion of production from the producing wells. The formula used in the Daly Flood is that  $1/8$  of the production from each producing well is allocated to each of the adjacent wells, leaving  $3/8$  of the production as allocation attributable to the producing wells. Where an injection well is in turn surrounded by producing wells, it receives an allocation of  $1/8$  of the production from each of the four surrounding producers. I realize that this procedure is extremely difficult to follow without a map. If you so desire, I could bring over the map accompanying the agreement in respect to the last expansion.

2—Mr. J. G. Cowan, Q.C.,  
Deputy Minister

— September 30, 1960.

This formula in respect to Document No. 52,834 means that  $1/8$  of production from Galston Daly Province 7-12 well is allocated to both the Galston Daly 10-12 well (Lease No. 16970) and the Galston Daly Prov. 6-12 well (our Lease No. 31), leaving  $6/8$  of the production with our 7-12 well (located on our Lease No. 9). The reason that 7-12 retains  $6/8$  of its production is that, as yet, it is located on the edge of the flood.

One of the problems, in connection with the recent application from California Standard, is to reach agreement with Basco Oil & Gas in respect to the 9-12 well.

  
J. S. Richards.

JSR:db

Encs.

c. c. for: Mr. M. J. Gobert,  
Senior Petroleum Engineer,  
with copy of formal application.

4740 4497<sub>u</sub>

661 1313

March 5, 1959. ✓

Mr. R. R. Mahaffey,  
Legal Counsel,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Sir:

This will acknowledge receipt of your letter of February 18th and eight copies of the proposed agreement (Document No. 52,834), relative to the allocation of royalty from the Calstan Daly Province 7-12 well.

The following comments are offered in respect to this document. Paragraph 4 on Page 1 of the agreement states that California Standard is the owner of the mines and minerals underlying L.S. 10-12-10-28 W. I would assume that this means that the company holds "California Standard Lease 16970". Incidentally, the Mines Branch has requested, but has not received, copies of the following assignments in respect to this ownership:

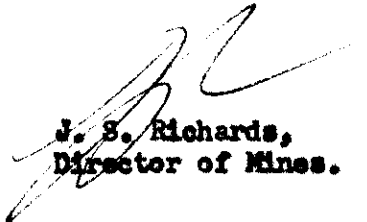
- (a) Oil and natural gas leases,
- (b) Surface leases,
- (c) Any rights of entry if separate from (b) above,
- (d) Wells and downhole equipment,
- (e) Surface, well head and battery equipment.

The agreement also provides that the allocation shall be "effective the first day that Calstan Daly 10-12 well is used for injection of water". We cannot accept the premise that the water injection in the 10-12 well will have an immediate affect on the production of 7-12, and would suggest that the date on which production from 7-12 is affected should be the effective date.

2, Mr. R. E. Mahaffey, March 5, 1959.

The document will be held until we have received your comments in regard to the above points. Would you also kindly supply us with a list of mineral owners affected by this agreement.

Yours very truly,



J. S. Richards,  
Director of Mines.

JSR:lm



c.c. Senior Petroleum Engineer.





COPY

October 10, 1958.

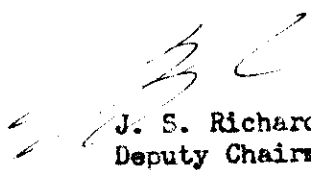
Mr. E. A. F. Trewinnard,  
District Landman,  
The California Standard Company,  
1836 Smith Street,  
Regina, Saskatchewan.

Dear Mr. Trewinnard:

This will acknowledge receipt of your letter of October 3rd, enclosing "two copies of the draft of a side agreement for the division of royalties from our California Standard East Daly Province 13-6 well". As you are probably aware, the Oil and Natural Gas Conservation Board has just received an application from your company for permission to expand the Daly Pilot Water Flood. Consequently, it is felt that any decision in respect to this side agreement should be deferred until the Board has considered the proposed application in respect to the flood expansion.

This application will be heard at a Public Hearing to be held at 9:30 a.m., Central Standard time, in Room 352, Legislative Building, Winnipeg 1, Manitoba, on November 13, 1958.

Yours very truly,

  
J. S. Richards,  
Deputy Chairman,  
The Oil and Natural Gas  
Conservation Board.

JSR:em

c. c. to: Mr. J. G. Cowan, Q.C., Chairman.  
→ Mr. M. J. Gobert, Senior Petroleum Engineer.

DEPARTMENT OF MINES AND NATURAL RESOURCES, WINNIPEG, CANADA

COPY

April 30, 1958.


The Canada Permanent Trust Company,  
1776 Scarth Street,  
Regina, Saskatchewan.

Dear Sirs:

On advice of The California Standard Company,  
we are enclosing herewith, Department of Mines and Natural  
Resources cheque No. F 634 made out to J. M. Younge.

This cheque should be credited to John Mosse  
Younge in respect to Daly Water Flood Unit No. 6 and Lease No.  
1192. We are assuming that you are familiar with the agree-  
ment entered into in respect to the said Flood Unit No. 6,  
but should you desire any additional information we will be  
pleased to oblige.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR/lsm  
Enc.  
Registered Mail

c.c. Mr. J. G. Cowan, Q.C. Deputy Minister.

Mr. T. Morgan, Chief Mining Recorder.

Mr. M. J. Gobert, Senior Petroleum Engineer.

PROVINCE OF MANITOBA  
DEPARTMENT OF MINES AND NATURAL RESOURCES, WINNIPEG, CANADA

COPY

April 30, 1958.


The Canada Permanent Trust Company,  
1776 Scarth Street,  
Regina, Saskatchewan.

Dear Sirs:

On advice of The California Standard Company,  
we are enclosing herewith, Department of Mines and Natural  
Resources cheque No. F 635 made out to G. Haskett.

This cheque should be credited to Gerald  
Haskett in respect to Daly Water Flood Unit No. 4 and Lease  
No. 3413. We are assuming that you are familiar with the  
agreement entered into in respect to the said Flood Unit  
No. 4, but should you desire any additional information we  
will be pleased to oblige.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR/lsm  
Enc.  
Registered Mail

c.c. Mr. J. G. Cowan, Q.C., Deputy Minister.

Mr. T. Morgan, Chief Mining Recorder.

Mr. M. J. Gobert, Senior Petroleum Engineer.

14  
April 16, 1958.

Mr. W. B. Patrick,  
Secretary and Treasurer,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Sir:

Re: Your File # 416.1

This will acknowledge, with thanks, your letter of April 10th, in respect to the refunds owing to Mr. G. Haskett and Mr. J. M. Younge, in accordance with Document No. 12674.

I regret that the refund of \$934.60, owing to the Crown in respect to Daly 11-12 and Document No. 51726, was not drawn to my attention when it arrived in this office on February 24th.

We are able to reconcile our records with your work sheets and the refunds will be made accordingly. Refund cheques will be prepared immediately, but as we have not had any correspondence with either Mr. G. Haskett or Mr. J. M. Younge, it would be appreciated if you would advise us as to the address to which these refunds should be forwarded.

Yours very truly,

J. S. Richards,  
Director of Mines.

JSR/lsm

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

# 51726 *best*

Examined

1/8 of production from

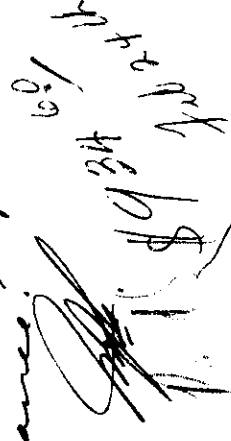
July 11-12 from

December 6, 1954.



Every:

Could you meet  
this condition you get  
a chance?



6/11/54  
\$1000  
1/2

April 1, 1958.

Mr. W. B. Patrick,  
Secretary and Treasurer,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Sir:

Re: Your File # 416.1

The following comments are offered in reply to your letter of March 25th, relative to the monies owed by the Province of Manitoba to Mr. G. Haskett and Mr. J. M. Younge.

You will recall in my letter of May 24, 1957, to which you refer, it was stated that we felt the finalization of these items should await the completion of Document No. 51,726. This Document was completed and returned to you under date of January 20, 1958. As you are aware, this agreement allocates one-eighth of the production from Calstan Daly 11-12 well to Manitoba Provincial Lease No. 31 retroactively to December 6, 1954. While we should have drawn this matter to your attention earlier, we assumed that you would be proceeding with the calculation and payment to the Crown of this amount.

In regard to the amounts owing to Mr. G. Haskett and Mr. J. M. Younge, our calculations of these amounts show minor discrepancies with your figures. Enclosed herewith, copies of our "Analysis of Production and Royalty" for Calstan Daly 9-11 and 15-11; we would appreciate a copy of your production and calculation of the amounts of \$105.58 and \$120.78, owing to Mr. Haskett and Mr. Younge, respectively.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR:lam  
Enc.

c.c. Mr. M. J. Gobert, Senior Petroleum Engineer.

*Handwritten notes:*  
Paid  
93400  
Sub 24-57  
1.1

100

[illegible]

Cady W. Chittin — \$105.58

187



# ANALYSIS OF PRODUCTION & ROYALTY

Golden Doly 15-11

Month	Year	Open Invent.	Close Invent.	Prod.	Royalty Pay. Mts.	Royalty Mts. @ 10%	Average Price per Mts.	Value of Royalty	1/8 Share J. M. Young Lease \$1192
Nov. 16-31	1956	30	29.57	32349	353	44	\$ 2.34	\$102.96	\$12.87/1082
December		29.57	72	804	813	102	2.34	238.48	29.83 3071
January	1957	72	52	715	735	92	2.43	220.19	27.90
February		52	55	697	634	79	2.52	199.08	24.89
March		55	67	683	671	84	2.52	211.68	26.46
		238	275	3240	3208	401		\$975.59	\$121.95/12078
		236	303						

City Std. calculation

120 78

\$ 1.17

difference

Dec	151	478	349	44	261	11484	24 days	86.13
Jan	139	425	361	45	2.555	11484		
Feb	117	411	197	25	2.449	6123		
Mar	111	501	748	94	2.34	219.96		
	164	524	483	60	2.34	14040		
Apr	205	539	351	44	2.307	13151		
May	34	626	910	114	2.338	26603		
Jun	128	708	629	82	2.34	10188		
Jul	128	625	665	56	2.34	20120		
Aug	38	641	706	88	2.34	20572		
Sep	73	631	566	71				
Oct	138	504	527	66				
Nov	125	584	571	71				
Dec	175	507	601	75				
Jan	271	525	410	51				
Feb	271	521	468	59				
Mar	32	549	734	92				
Apr	231	824	732	92				
May	231	791	906	118				
Jun	126	320	600	80				
Jul	156	796	715	84				
Aug	237	709	731	91				
Sep	215	757	799	150				
Oct	113	728	609	76				
Nov	212	650	806	101	234	2882		
Dec	136	582	615	77	2456	184		
Jan	13	556	581	73	252			
Feb	132	640	586	73				
Mar	132	698	755	94				
Apr	75	987	685	86				
May	378	629	929	116		111384		
Jun	108	817	668	84	250	210000		
Jul	317	1031	1204	151	2043	37640		
Aug	175	980	849	106	246			
Sep	175	842	868	109	246			
Oct	107	1066	895	112	246			
Nov	320	825	1020	128	246	111230		

Dec 1st - 1st day in this month

Adjustment also in production to 24 days - our value for unit → \$935.17

122780 1533512 52070 126983

Premium

1st 23116 (10) 48931 611935  
 2nd 16306 22109 277362  
 3rd 71040 18297

Other

Cal 73682 176533 2195485 109364 261701  
 2805 668  
 1000 45390  
 25127 60018  
 21579903 53723651  
 158175 377992  
 165920 396506

Top

16463 204800 10108 24024

122780 1533512 2910 7210

9.  
18/

January 20, 1958.

Mr. E. F. Goss,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Mr. Goss:

Re: Document No. 51,726,  
Water Flood Equity Agreement,  
Daly Field.

We are returning herewith, four copies of Document No. 51,726, Water Flood Equity Agreement, in the Daly Field, pertaining to Manitoba Lease No. 31 and Freehold Lease No. 3413 from G. Haskett. This document has been executed by the Minister of this Department, on behalf of the Crown.

Also enclosed herewith, one copy of Order-in-Council No. 78/58, authorizing the Minister to enter into the agreement in accordance with subsection (1) of Section 68 of "The Mines Act".

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSP/lsm  
Encs.

Registered Mail

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

INTER-DEPARTMENTAL  
MEMORANDUM

PROVINCE OF MANITOBA

FROM Director of MinesTO Mr. M. J. Gobert,  
Senior Petroleum Engineer.

ATTENTION \_\_\_\_\_

SUBJECT Document No. 51,726 -  
Water Flood Equity Agreement -  
Daly Field.DATE January 20, 1958.

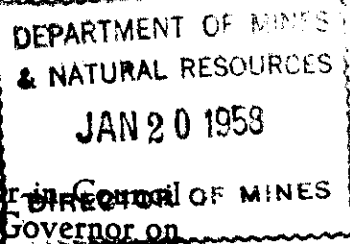
Enclosed herewith, one copy of Document No. 51,726, Water Flood Equity Agreement, in respect to Crown Lease No. 31 and Freehold Lease No. 3413, acquired from G. Haskett, and Calstan Daly Province 6-12 and Calstan Daly 11-12 wells.

Also enclosed herewith, Order-in-Council No. 78/58, authorizing the Minister to enter into this agreement, on behalf of the Crown.

G. S. Richards.

JSR/lsm  
Enc.

No. 78/58



Memorandum of an order of the Lieutenant-Governor-in-Council approved and ordered by His Honour the Lieutenant-Governor on

JAN 14 1958

The Honourable the Minister of **Mines and Natural Resources**  
having submitted to Council a report setting forth that:

**WHEREAS**, subsection (1) of Section 68 of "The Mines Act", being Chapter 166 of the Revised Statutes, as the section was enacted by Chapter 45 of the Statutes of Manitoba, 1955, provides as follows:

"68. (1) The Lieutenant-Governor-in-Council may authorize the minister to enter into an agreement for the injection, storage, recycling, or reproduction, in or from an underground formation of any mineral substance or water.";

**AND WHEREAS**, The California Standard Company has instituted a water flooding programme with a view to securing the most economic recovery of oil and natural gas from certain lands in the Daly Field;

**AND WHEREAS**, the said water flooding programme necessitated the entering into "Water Flooding Unitization Agreements" which pooled, consolidated, and merged certain oil and natural gas leases issued by the Crown, and other owners of oil and natural gas rights, which were authorized by Order-in-Council No. 411/57;

**AND WHEREAS**, the Minister of Mines and Natural Resources wishes to enter into a further agreement with the persons who are parties to this agreement;

**AND WHEREAS**, it is considered that the provisions of the said agreement will result in a better recovery of oil and natural gas from the said lands;

**THEREFORE** he, the Minister, recommends:

**THAT**, the Minister of Mines and Natural Resources be authorized to enter into an Agreement, dated the tenth day of February, 1956, respecting the wells described as:

Calstan Daly Province 6-12, and  
Calstan Daly 11-12;

and marked Document No. 51,726.

And, upon consideration of the said report and recommendation on the 14th day of January A.D. 19 58 (the Hon. Mr. Greenlay in the Chair), Council having advised that it be done as recommended by the Honourable the Minister of **Mines and Natural Resources** His Honour the Lieutenant-Governor-in-Council was pleased to approve the said report and recommendation and to order that it be done accordingly.

CERTIFIED to be a true copy  
of a document signed by  
**CHADLAND PRUDHOMME**

Certified correct

Deputy Clerk of the Executive Council  
Clerk of the Executive Council

This memorandum is furnished

on

JAN 17 1958

INTER-DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

FROM Director of MinesTO Mr. J. G. Cowan, Q.C.,  
Deputy Minister.

ATTENTION \_\_\_\_\_

SUBJECT The California Standard Company -  
Water Flood Equity Agreement -  
Document No. 51,726.

DATE January 7, 1958.

Enclosed herewith, the above Document which has been submitted by The California Standard Company for completion by the Minister on behalf of the Crown. This Document was originally submitted by The California Standard Company in September, 1956, and was forwarded to you for consideration with a covering memorandum, dated September 21, 1956.

At that time, we did not agree with the statements made in the last paragraph on Page 1 of the agreement, which you will notice has been altered and initialed apparently by all subscribers. While I believe that the phraseology of this paragraph could still be improved, I do not think it is sufficiently bad to show that a further agreement may be entered into with the owners of the S.W.  $\frac{1}{4}$  of Section 12, at which time the owners of the mineral rights of the N.E.  $\frac{1}{4}$  of Section 12 would become parties to a new agreement.

The other point in the agreement to which we objected in 1956 was the effective date of the agreement. You will note that it has been changed to become effective December 6, 1954, the first day that the Calstan Daly 6-12 was used for injected water.

I am also submitting herewith, a Recommendation-to-Council similar to Order-in-Council No. 411/57 which granted authority to the Minister to enter into other agreements of this nature.

May we please have four copies of the Order-in-Council.

  
J. S. Richards.

JSR/lm  
Encs.

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

COPY

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

November 1, 1957.

Mr. R. R. Mahaffey,  
Legal Counsel,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Sir: Attention: Mr. R. F. Coss

Re: Document No. 51,726,  
Water Flood Equity Agreement,  
Daly Field.

This will acknowledge, with thanks, your letter of October 28th, relative to the above document.


The following comments are offered in respect to your suggestion that the last paragraph of Page 1 be amended to read:

"Whereas all the parties intend that when California Standard enters an agreement with the owners of the North East Quarter - - -"

I believe we have previously indicated that it is not desirable to place the Minister of this Department in the position, when acting as the agent of the Crown as the owner of minerals, that he is also, in his capacity as the final regulatory authority, approving a scheme which has not even been submitted for consideration. In other words, if the Minister agrees that he "intends" to agree to the provisions of the last paragraph of Page 1, it could be interpreted to mean that he is also agreeing to entering into an agreement with the owners of the North East Quarter of Section 12. We feel that this is a matter which should only be decided when a plan for an expansion of the water flood is submitted. Possibly, this objection could be removed if Document No. 51,726 contained a clause identical to Section 14 of Document No. 8,924 (Flooding Unit No. 1).

We have received copies of Document No. 52,113.

Yours very truly,

  
J. G. Richards,  
Director of Mines.

JSR:lm



M.J.F. <sup>filed in office</sup>  
68/ supplied by Coker as a  
summary of all agreements.  
It has not been checked

  
**J. S. RICHARDS**

File Memorandum re Daly Water Flood Unitization Agreements  
and Equity Adjustment Agreements:

1. Water Flooding Unitization Agreement - Virden Flooding Unit No. 1  
(file 50,621) dated May 15, 1953.

Pooled Lands: - NW $\frac{1}{4}$  1, NE $\frac{1}{4}$  1, SE $\frac{1}{4}$  12, SW $\frac{1}{4}$  12,  
all in Twp. 10, Rge. 28, WPM

Wells Drilled: - Daly 13-1  
14-1  
15-1  
10-1A  
2-12  
3-12  
4-12  
5-12  
6-12  
7-12  
All in Twp. 10, Rge. 28, WPM

Wells to be converted  
to water injection: - Daly 2-10 2-12 NW $\frac{1}{4}$   
10-1A 2-12 NW $\frac{1}{4}$   
14-1 2-12 NW $\frac{1}{4}$

Wells to be drilled solely  
for water injection: - Daly 16-1

Flooding Unit No. 1  
Producing well: - Daly 15-1

2. Water Flooding Unitization Agreement No. 2  
(file 51,039) dated November 1, 1954, Expansion Agreement.

Existing Pooled area: N $\frac{1}{2}$  1, S $\frac{1}{2}$  12, Expansion to include NW $\frac{1}{4}$  12,  
in Twp. 10, Rge. 28, WPM SE $\frac{1}{4}$  11, in Twp. 10, Rge. 28, WPM

Wells Drilled: - Daly 1-11  
2-11  
8-11  
11-12  
12-12  
14-12

Wells to be converted  
to water injection: - Daly 12-12  
6-12  
8-11

Wells to be converted to water  
injection in the future: - Daly 4-12

Producing Well: - Daly 5-12  
(Water Flood Unit No. 2)

Considered to SW 1/4 NW 9/57  
NW 1/4 SW 1/4

3. Expansion Agreement - Flooding Unit No. 3  
(File 51,298) Dated May 26, 1956

Injection Wells: - Daly 2-12 ✓  
6-12 ✓  
14-1 ✓

Producing Well: - Daly 3-12 ✓

Allocation of Production:

Freehold Lease 1187, N.R. Williams - 1/8  
Manitoba Prov. Lease No. 31 - 6/8  
Manitoba Prov. Lease No. 9 - 1/8

Incorporates the terms and conditions of the first agreement.  
Royalties adjusted back to December 1st, 1954.

4. Expansion Agreement - Water Flood Units 4, 5, 6 & 7.  
(File 12,674) - Dated January 7, 1956.

Existing Pooled Area: - N $\frac{1}{2}$  1, SE $\frac{1}{4}$  11, NW $\frac{1}{4}$  12, S $\frac{1}{2}$  12,  
all in Twp. 10, Rge. 28, WPM

Expansion to include: - NE $\frac{1}{4}$  10, SW $\frac{1}{4}$  11, N $\frac{1}{2}$  11, SW $\frac{1}{4}$  13, all of 14,  
all in Twp. 10, Rge. 28, WPM

Wells Drilled or to be drilled:	Daly 9-10	Daly 3-13
	10-10	4-13
	3-11	5-13
	4-11	6-13
	5-11	1-14
	7-11	3-14
	9-11	7-14
	11-11	8-14
	13-11	9-14
	15-11	16-14

Injection Wells: - Daly 6-11 ✓      Daly 14-11 ✓  
10-11 ✓      16-11 ✓  
12-11 ✓      2-14 ✓

Daly 8-14 and 4-13 presently producing oil wells  
to be converted to water.

Producing Wells: - Daly 9-11 ✓  
11-11 ✓  
15-11 ✓  
1-14 ✓

5. Water Flood Equity Agreement  
(file 52,113), dated December 21, 1956:

Provides for allocation of production from Daly 13-1 commencing when 4-12 is converted to water injection as follows:

Freehold Lease 1187, N.R. Williams - 7/8  
Manitoba Prov. Lease No. 31 - 1/8

**Provides for allocation of production from Dally 1-12, effective September 1st, 1955, as follows:**

Manitoba Prov. Lease No. 9 - 7/8  
Freehold Lease 1188, N.R. Williams - 1/8  
(Water Flood Unit No. 8)

Provides agreement to terminate when wells 13-1 and 1-12 become the centre of a flooding unit.

6. Water Flood Equity Agreement  
(file 51,649), dated January 7, 1956:

**Injection well:** - Daily 2-14

Producing well: - Daly 3-14

Allocation of production from Dely 3-14 commencing from date 2-14 goes on injection, as follows:

Manitoba Prov. Lease No. 246 - 6/8  
Manitoba Prov. Lease No. 245 - 1/8  
Freehold Lease No. 1192, J.M. Young - 1/8  
(Water Flood Unit No. 9)

**Provides agreement to terminate when Daly 3-14 becomes centre of a flooding unit.**

7. Water Flood Equity Agreement  
(file 51,727) dated January 11, 1956:

Injection wells: - Daly 16-11  
4-13

Producing well: - Daly 13-12  
(Water Flood Unit No. 10)

Provides for allocation of production from Dally 13-12 effective as of the date Dally 16-11 and 4-13 go on injection as follows:

Manitoba Prov. Lease No. 55 - 1/8  
Freehold Lease 1152, J. Haskett - 1/8  
Freehold Lease 3413, G. Haskett - 6/8

Provides agreement will terminate the first day of the month following the date upon which Daly 13-12 becomes the centre of a flooding unit.

8. Water Flood Equity Agreement  
(file 51,726) dated February 10, 1956 - NOT executed.

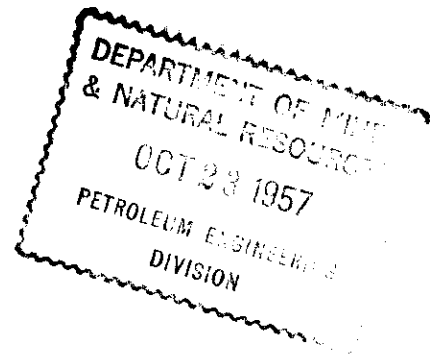
Injection well: - Daly 6-12

Producing well: - Daly 11-12

Allocates production from Daly 11-12 to be effective when 6-12 goes on injection as follows:

Manitoba Prov. Lease No. 31 - 1/8  
Freehold Lease 3413, G. Haskett - 7/8

Provides agreement will terminate when California Standard and operators of Daly 10-12 reach agreement and commence injection into Daly 10-12.



October 22, 1957.

Mr. R. R. Mahaffey,  
Legal Counsel,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Sir: Attention: Mr. E. F. Goss

Re: Document No. 51,726,  
Water Flood Equity Agreement,  
Daly Field.

This will acknowledge your letter of October 16th,  
relative to the above mentioned document.

The change which you suggest in respect to the  
effective date, without having the entire document in our hands  
for perusal, would appear to be what was requested in our earlier  
correspondence.

However, you have omitted any reference to the  
second paragraph of my letter of August 14, 1956, addressed to  
the attention of Mr. D. M. Johnston, relative to the agreement  
in respect to the N.E.  $\frac{1}{4}$  of Section 12 and a water injection well  
located on Legal Subdivision 10.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR/lm

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

M. J. Gobert

J. S. Richards

The California Standard Company  
Water Flood Agreement Document No. 12,674

May 29/57

Further to your letter of May 24, 1957, attached herewith is an Analysis of Production & Royalty with respect to the above Document No. 12,674.

This differs slightly from totals arrived at by the Company since we do not have daily production reports for November 1956.

Would suggest that you request a statement of the production for the period under review and the calculation involved.

A handwritten signature in dark ink, appearing to be 'J. S. Richards', is centered below the text. The signature is fluid and cursive, with a large initial 'J' and 'S'.

# ANALYSIS OF PRODUCTION & ROYALTY

Calstaten Daly 15-11

Month	Year	Open Invent.	Close Invent.	Prod.	Royalty Disp. Bbls.	Royalty bbls. " 12 1/2	Average Price per bbl.	Value of Royalty	1/8 Share J. M. Young Lease #1192
Nov. 16-31	1956	30	29	352	353	44	\$ 2.34	\$102.96	\$ 12.87
December		29	72	856	813	102	2.34	238.68	29.83
January	1957	72	52	715	735	92	2.426	223.19	27.90
February		52	55	637	634	79	2.52	199.08	24.89
March		55	67	683	671	84	2.52	211.68	26.46
		238	275	3,243	3,206	401		\$975.59	\$121.35

*100.00*

*12.87*

*29.83*

*27.90*

*24.89*

*26.46*

*\$121.35*



# ANALYSIS OF PRODUCTION & ROYALTY

Calstatan Daily 9-31

Month	Year	Open Invent.	Close Invent.	Prod.	Royalty Disp. Bbls.	Royalty bbls. @ 12 1/2%	Average Price per bbl.	Value of Royalty	1/8 Share Gerald Haskett Lease #3413
Nov. 16-31	1956	25	24	297	298	37	\$ 2.34	\$ 86.58	\$ 20.82
December		24	64	757	717	90	2.34	200.60	26.33
January	1957	64	45	618	637	80	2.426	194.08	24.26
February		45	47	551	549	69	2.52	173.88	21.74
March		47	60	607	594	74	2.52	186.48	23.30
		202	240	2,832	2,792	350		\$857.62	\$106.45

91.67

102.58

.89

DEPARTMENT OF MINES AND NATURAL RESOURCES, WINNIPEG, CANADA

COPY

May 24, 1957.

Mr. H. G. Nicholson,  
Vice-President,  
Secretary and Treasurer,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Sir: Attention: Mr. W. A. Bailey

This will acknowledge receipt of your letter of May 15th, in respect to Daly Prov. 9-11 and 15-11 wells, and will confirm that Water Flood Agreement, Document No. 12,674, sets out a division of production and royalty in the manner detailed in this letter.

However, in respect to the division of the production from Daly 9-11 and credit to Gerald Haskett, Lease 3413, we would draw attention to the fact that, on August 14, 1956, Document No. 51,726, which pertained to Haskett Lease 3413 and Green wells, was returned to Mr. D. M. Johnston of your company, suggesting that certain revisions were necessary before it was acceptable to this Department. Mr. Johnston, by letter dated September 17, 1956, requested further consideration of our position. Sometime after receipt of this letter, I telephoned Mr. Johnston and advised him that we considered that an attempt should be made to have the subscribers agree to our suggestions. If my recollection is correct, Mr. Johnston agreed to this suggestion. The point is that, in our opinion, Document No. 51,726 should be finalized before any back payment of royalty is made in respect to Haskett Lease 3413, as agreed to by Document No. 12,674. We would appreciate being advised if any progress has been made with Document No. 51,726.

In the meantime, we will check the amounts owing to G. Haskett and J. M. Younge.

Yours very truly,

  
J. A. Richards,  
Director of Mines.

JSR:lm

**Memo to File -- Our records confirm telephone call to Calgary  
on November 20, 1956.**

**c.c. Mr. J. G. Cowan, Q.C.,  
Deputy Minister.**

**Mr. M. J. Gebert,  
Senior Petroleum Engineer.**

**with copy of a letter, dated May 15, 1957, from  
The California Standard Company.**

# THE CALIFORNIA STANDARD COMPANY

12674

RECEIVED

CALGARY, ALBERTA

May 15, 1957,

Department of Mines & Natural Resources  
Mines Branch,  
WINNIPEG 1, Manitoba.

ATTENTION: Mr. C.S. Richards  
Director of Mines

Dear Sir:

As of November 16, 1956 the wells Daly Prov. 9-11 and 15-11 were covered by Water Flood agreements.

Beginning with the month of April we have split the production and royalty for these wells according to the agreement as follows:

## Daly 9-11

Manitoba Provincial Lease	55	6/8 ✓
Manitoba Provincial Lease	1	1/8 ✓
Gerald Haskett Lease	54.9	1/8 Canada Permanent Trust Regina (re: Northern Oils Trust)

## Daly 15-11

Manitoba Provincial Lease	55	6/8 ✓
Manitoba Provincial Lease	245	1/8 ✓
John Mosse Youngs Lease	1192	1/8 Canada Permanent Trust Regina

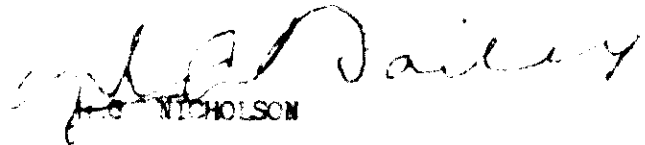
Our calculations show that the Provincial Government of Manitoba owes \$12,575 to G. Haskett and \$125,75 to J.M. Youngs.

These amounts are for the period November 16, 1956 to March 31, 1957 inclusive.

continued . . .

we are assuming that your Department will wish to distribute these  
cards itself, however, if such should not be the case please advise  
and we will make the necessary distribution.

Yours very truly,

  
PHILIP A. BAILEY  
JES. NICHOLSON

13-1  
298

**The Toronto General Trusts  
Corporation,  
Portage and Smith,  
Winnipeg.**

**Attention: Mr. Christie**

These refunds are royalties paid to the Crown by The California Standard Company, to which Mr. Williams is entitled by the agreements contained in the following documents:

- Yours truly,

**K  
Lnc.**

C.C. to Mr. Williams, Virden.

INTER-DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

FROM Director of Mines

TO Mr. M. J. Gobert,  
Senior Petroleum Engineer.

ATTENTION \_\_\_\_\_

SUBJECT Oil and Natural Gas -  
Water Flooding Agreements -  
The California Standard Company.

DATE May 10, 1957.

Attached, herewith, Order-in-Council No. 411/57,  
together with Schedules A and B, both duly certified.

This Order-in-Council is dated March 19, 1957,  
and was received in this office on March 22.

Recently this Order-in-Council had to be returned  
to the Deputy Minister's office in order to rectify an error, and is,  
herewith, returned to your office, duly corrected.

This Order-in-Council ratifies and confirms  
agreements mentioned in Schedule A, namely, Document Nos. 8,924,  
11,085, 12,674, 51,649, and 51,727; and gives authority to the Min-  
ister to enter into the agreements mentioned in Schedules A and B,  
namely, Document Nos. 8,924, 11,085, 12,674, 51,649, 51,727, 51,298,  
and 52,113.

  
J. S. Richards.

:DB

Enc. 1.

INTER-DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

FROM Director of Mines

TO Mr. R. Cox,  
Chief Mining Recorder.

ATTENTION \_\_\_\_\_

SUBJECT Refunds re  
N. R. Williams;  
The California Standard Company -  
Flood Unit No. 3, Document No. 51,298;  
Equity Agreement, Document No. 52,113.

DATE May 1, 1957.

Further to our recent conversation, kindly have issued two refund cheques, authorized by the above documents, which were ratified and confirmed by Order-in-Council No. 411/57.

These refunds are royalties paid to the Crown by The California Standard Company, to which Mr. Williams is entitled by the agreements contained in the said documents.


1. Document No. 51,298:

Refund consists of 1/8 of the royalty paid by The California Standard Company on Calstan Daly Prov. 3-12 well since December 1, 1954, amounting to \$3,572.96. Cheque should be forwarded to The Toronto General Trusts Corporation for credit to Petroleum and Natural Gas Lease No. 1187, held by N. R. Williams.

2. Document No. 52,113:

Refund consists of 1/8 of royalty paid by The California Standard Company on Calstan Daly Prov. 1-12 well since September 1, 1955, amounting to \$574.73. Cheque should be forwarded to The Toronto General Trusts Corporation for credit to Petroleum and Natural Gas Lease No. 1188, held by N. R. Williams.

JSR:DB

  
J. S. Richards.

c. c. to: Mr. M. J. Gobert,  
Senior Petroleum Engineer.



DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

FROM

G. Dennehy

TO

M. J. Gobert

ATTENTION

SUBJECT

DATE April 23, 1957

Attached, you will find statement of computations covering allocation of royalty from 1-12 and 3-12 wells to end of March, 1957, together with a similar statement prepared by California Standard Company.

There is a small difference amounting to eleven cents between the two statements made up as follows:

Petroleum Division Calculations

1/8 share Williams	3-12	Dec./54-Mar./57	\$3,572.96	
1/8 share Williams	1-12	Sept/55-Mar./57	<u>574.73</u>	\$4,147.69

California Standard Calculations

1/8 share Williams	3-12	Dec./54-Mar./57	\$3,572.54	
1/8 share Williams	1-12	Sept/55-Mar./57	<u>575.04</u>	<u>\$4,147.58</u>

Difference .11

# ANALYSIS OF PRODUCTION & ROYALTY

## Calstan Daly Prov. 1-12

Month	Year	Open Inven.	Close Inven.	Prod.	Royalty Disp. bbls.	Royalty bbls. @ 12 3/4	Average Price per bbl.	Value of Royalty	1/8 Share Williams	7/8 Prov. #9 Lease
September	1955	-	319	1,926	1,607	201	\$ 2.34	\$ 470.34	\$ 58.79	\$ 411.55
October		319	191	1,225	1,353	169	2.34	395.46	49.43	346.03
November		191	171	887	907	113	2.34	264.42	33.05	231.37
December		171	130	858	899	112	2.34	262.08	32.76	229.32
January	1956	130	100	893	923	115	2.34	269.10	33.64	235.46
February		100	159	842	783	98	2.34	229.32	28.67	200.65
March		159	130	799	828	104	2.34	243.36	30.42	212.94
April		130	112	708	726	91	2.34	212.94	26.62	186.32
May		112	108	770	774	97	2.34	226.98	28.37	198.61
June		108	125	668	651	81	2.34	189.54	23.68	165.86
July		125	104	701	722	90	2.34	210.60	26.33	184.27
August		104	80	657	681	85	2.34	198.90	24.86	174.04
September		80	67	600	613	77	2.34	180.18	22.52	157.66
October		67	59	638	646	81	2.34	189.54	23.69	165.85
November		59	117	533	475	59	2.34	138.06	17.26	120.80
December		117	170	623	570	71	2.34	166.14	20.77	145.37
January	1957	170	96	576	650	81	2.426	196.51	24.56	171.95
February		96	140	928	884	111	2.52	279.72	34.97	244.75
March		140	128	860	872	109	2.52	274.68	34.34	240.34
Total		2,378	2,506	15,692	15,564	1,945		\$4,597.87	\$ 574.73	\$4,023.14

X

11/11/56

## ANALYSIS OF PRODUCTION &amp; ROYALTY

Galistan Daly Prov. 3-12

Month	Open Inven.	Close Inven.	Prod.	Royalty Disp. bbls.	Royalty bbls. @ 12 3/8	Average Price	Value of Royalty	1/8 Share Williams	1/8 Share Prov. Lease #9	3/4 Share Prov. Lease #31
Dec. /54	358	695	2,856	2,519	315	2.61	822.15	102.77	102.77	616.61
Jan. /55	695	484	2,602	2,813	352	2.555	899.36	112.42	112.42	674.52
Feb.	484	1,007	2,773	2,250	281	2.449	688.17	86.02	86.02	516.13
Mar.	1,007	990	3,292	3,309	414	2.34	968.76	121.10	121.10	726.56
April	990	1,025	3,434	3,399	425	2.34	994.50	124.31	124.31	745.88
May	1,025	603	4,287	4,709	589	2.34	1,378.26	172.28	172.28	1,033.70
June	603	429	5,021	5,195	649	2.34	1,518.66	189.83	189.83	1,139.00
July	429	981	4,378	3,826	478	2.34	1,118.52	139.82	139.82	838.88
Aug.	981	897	3,832	3,916	490	2.34	1,146.60	143.33	143.33	859.94
Sept.	897	659	3,981	4,219	527	2.34	1,233.18	154.15	154.15	924.88
Oct.	659	586	3,756	3,829	479	2.34	1,120.86	140.11	140.11	840.64
Nov.	586	570	2,962	2,978	372	2.34	870.48	108.81	108.81	652.86
Dec.	570	398	2,632	2,804	351	2.34	821.34	102.67	102.67	616.00
Jan. /56	398	290	2,580	2,688	336	2.34	786.24	98.28	98.28	589.68
Feb.	290	585	3,099	2,804	351	2.34	821.34	102.67	102.67	616.00
Mar.	585	598	3,668	3,655	457	2.34	1,069.38	133.67	133.67	802.04
April	598	660	4,173	4,111	514	2.34	1,202.76	150.35	150.35	902.06
May	660	658	4,692	4,521	587	2.34	1,373.58	171.70	171.70	1,030.18
June	658	885	4,748	4,694	565	2.34	1,322.10	165.26	165.26	991.58
July	885	729	4,904	5,060	633	2.34	1,481.22	185.15	185.15	1,110.92
Aug.	729	541	4,468	4,656	582	2.34	1,361.88	170.23	170.23	1,021.42
Sept.	541	433	3,858	3,986	496	2.34	1,160.64	145.08	145.08	870.48
Oct.	433	327	3,538	3,644	456	2.34	1,067.04	133.38	133.38	800.28
Nov.	327	584	2,671	2,414	302	2.34	706.68	88.34	88.34	530.00
Dec.	584	562	2,055	2,077	260	2.34	608.40	76.05	76.05	456.30
Jan. /57	562	400	2,388	2,550	319	2.426	773.89	96.74	96.74	580.41
Feb.	400	295	1,958	2,063	258	2.52	659.16	81.27	81.27	487.62
Mar.	295	291	1,957	1,961	245	2.52	617.40	77.17	77.17	463.06
Total	17,229	17,162	96,563	96,630	12,083		\$28,583.55	\$3,572.96	\$3,572.96	\$21,437.63

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ALLOCATION OF DALY 1-12 PRODUCTION UNDER WATER FLOOD AGREEMENT

	<u>Opening Inventory</u>	<u>Production Net Bbls.</u>	<u>Sales Bbls.</u>	<u>Closing Inventory</u>	<u>R.I. Bbls. (12 1/2% of Sales)</u>	<u>Net Wellhead Price</u>	<u>Royalty Paid</u>	<u>N.R. Williams Royalty (1/8 of Royalty Paid)</u>	<u>Bbls.</u>	<u>Value</u>
September 1955	Nil	1926	1607	319	201	2.340	470.34	25		58.79
October 1955	319	1225	1353	191	169	2.340	395.46	21		49.43
November 1955	191	887	886	192	111	2.340	259.74	14		32.47
December 1955	192	858	920	130	115	2.340	269.10	14		33.64
January 1956	130	893	923	100	115	2.340	269.10	14		33.64
February 1956	100	842	783	159	98	2.340	229.32	12		28.67
March 1956	159	799	828	130	104	2.340	243.36	13		30.42
April 1956	130	708	726	112	91	2.340	212.94	11		26.62
May 1956	112	770	774	108	97	2.340	226.98	12		28.37
June 1956	108	668	651	125	81	2.340	189.54	10		23.69
July 1956	125	701	722	104	90	2.340	210.60	11		26.33
August 1956	104	657	681	80	85	2.340	198.90	11		24.86
September 1956	80	600	613	67	77	2.340	180.18	10		22.52
October 1956	67	638	646	59	81	2.340	189.54	10		23.69
November 1956	59	533	475	117	59	2.340	138.06	7		17.26
December 1956	117	623	570	170	71	2.340	166.14	9		20.77
January 1957	170	576	650	96	81	2.426	196.51	10		24.56
February 1957	96	928	884	140	111	2.520	279.72	14		34.97
March 1957	140	860	872	128	109	2.520	274.68	14		34.34
Totals	2,399	15,692	15,564	2,527	1,946		4,600.21	242		575.04

*Richard W.*

ALLOCATION OF DAILY 3-12 PRODUCTION UNDER NEW WATERFLOODING AGREEMENT

	Opening Inventory	Production Net Bbls.	Sales Bbls.	Closing Inventory	R.I. Bbls. (12 1/2% of Sales)	Net Wellhead Price	Royalty Paid	N.R. Williams Royalty (1/8 of Royalty paid)	Value
December 1954	317	2,856	2,745	428	343	\$ 2,610	\$ 895.23	43	\$ 111.90
January 1955	428	2,602	2,725	305	341	2.555	871.26	43	108.91
February 1955	305	2,773	2,479	599	310	2.44877	759.12	39	94.89
March 1955	599	3,292	3,331	560	417	2.340	975.78	52	121.97
April 1955	560	3,434	3,425	565	429	2.340	1,003.86	54	125.48
May 1955	565	4,287	4,536	316	567	2.340	1,326.78	71	165.85
June 1955	316	5,021	5,130	207	641	2.340	1,499.94	80	187.49
July 1955	207	4,378	3,604	981	450	2.340	1,053.00	56	131.63
August 1955	981	3,832	3,916	897	490	2.340	1,146.60	61	143.32
Totals	4,278	32,475	31,895	4,858	3,988		\$ 9,531.57	499	\$ 1,191.44

John Williams

ALLOCATION OF DAILY 3-12 PRODUCTION UNDER NEW WATERFLOODING AGREEMENT

	Opening Inventory	Production Net Bbls.	Sales Bbls.	Closing Inventory	R.I. Bbls. (12 1/2% of Sales)	Net		Royalty Paid	N.R. Williams Royalty (1/8 of Royalty paid)	
						Wellhead Price			Bbls.	Value
Balance Forward	4,278	32,475	31,895	4,858	3,988		\$ 9,531.57	499	\$ 1,191.44	
September 1955	897	3,981	4,219	659	527	2.340	1,233.18	66	154.15	
October 1955	659	3,756	3,829	586	479	2.340	1,120.86	60	140.11	
November 1955	586	2,962	2,978	570	372	2.340	870.48	46	108.81	
December 1955	570	2,632	2,804	398	351	2.340	821.34	44	102.67	
January 1956	398	2,580	2,688	290	336	2.340	786.24	42	98.28	
February 1956	290	3,099	2,804	585	351	2.340	821.34	44	102.67	
March 1956	585	3,668	3,655	598	457	2.340	1,069.38	57	133.67	
April 1956	598	4,173	4,111	660	514	2.340	1,202.76	64	150.35	
May 1956	660	4,692	4,694	658	587	2.340	1,373.58	73	171.70	
June 1956	658	4,748	4,521	885	565	2.340	1,322.10	71	165.26	
July 1956	885	4,904	5,060	729	633	2.340	1,481.22	79	185.15	
August 1956	729	4,468	4,656	541	582	2.340	1,361.88	73	170.24	
September 1956	541	3,858	3,966	433	496	2.340	1,160.64	62	145.08	
October 1956	433	3,538	3,644	327	456	2.340	1,067.04	57	133.38	
November 1956	327	2,671	2,414	584	302	2.340	706.68	38	88.34	
December 1956	584	2,055	2,077	562	260	2.340	608.40	33	76.05	
January 1957	562	2,388	2,550	400	319	2.426	773.89	40	96.74	
February 1957	400	1,958	2,063	295	258	2.520	650.16	32	81.27	
March 1957	295	1,957	1,961	291	245	2.520	617.40	31	77.18	
Totals	14,935	96,563	96,589	14,909	12,078		\$ 28,580.14	1,511	\$ 3,572.54	

Reviewed by C. J. M. B.

*62*  
INTER-DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

FROM Director of Mines

TO Mr. J. G. Gamm, O.C.,  
Deputy Minister.

ATTENTION \_\_\_\_\_

SUBJECT The California Standard Company -  
Filed Unit No. 3, Document No. 21,298;  
Equity Agreement, Document No. 52,113.

DATE April 15, 1957.

Enclosed herewith, reply received from The California Standard Company to my letter of April 2nd, a copy of which was forwarded to you.

Without being requested to do so, the company has computed the back royalty due to the end of March in respect to both of the above mentioned documents. We have not, as yet, received the company's final returns for the month of March, but, I believe, these figures agree to within a few cents of our calculation of both these sums.

Since receipt of this letter, which advises that the back payments should be made to Mr. W. R. Williams, the company has further advised that his depository is the Toronto General Trusts Corporation, Winnipeg. Possibly, you may desire to write to Mr. Williams, advising him that these back payments will amount to approximately \$3,572 and \$575, respectively, and that the company has suggested that these monies should be paid to the Toronto General Trusts Corporation. By the time we have received this reply, we should be in a position to make this payment.

*[Signature]*  
J. S. Richards.

JSR/lm  
Enc.

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

# ~~The Commercial Investment Company~~

H. G. NICHOLSON  
VICE PRESIDENT  
AND TREASURER

CALGARY, ALBERTA

April 10, 1957

Dept. of Mines & Natural Resources,  
Mines Branch,  
Winnipeg 1, Manitoba

Attention: Mr. J. S. Richards,  
Director of Mines

Dear Sir:

We refer to your letter of April 1, addressed to Mr. D. M. Johnston concerning Water Flood Unit No. 3 (Document No. 51298), and Document No.

In the case of Water Flood Unit No. 3, Mr. N. R. Williams is entitled to one-eighth of all royalties paid on sales from the well Daly Prov. 1-12 since Dec. 1, 1954. We have calculated this amount to be \$77.54 to the end of March 1957.

Document No. 52113 covers producing wells Daly 13-1 and Daly Prov. 1-12. However the agreement concerning Daly 13-1 does not become effective until Daly 1-12 goes on injection.

The agreement for Daly 1-12 states that effective September 1, 1955 Mr. N. R. Williams is entitled to one-eighth of the royalty paid on sales from this well. Our calculations show this amount to be \$57.10 up to the end of March 1957.

We are enclosing schedules showing how we arrived at the amounts payable to Mr. Williams.

Beginning with the month of April we will pay Mr. Williams his one-eighth share of the royalties for the above wells.

Yours very truly,

CCN/141  
D. M. Johnston

H. G. NICHOLSON

Enc.

*Check  
changed here  
[Signature]*



M. J. Gobert

Mr. J. S. Richards

The California Standard Company  
Equity Agreement -  
Document No. 52,113.

April 2/57

In accordance with your request of March 29th, Miss Dennehy has prepared an Analysis of Production & Royalty for the Calstan Daly Prov. 1-12 well.

From the attached, you will note that the 1/8 share to N.R. Williams amounts to \$540.39 to February 28, 1957.

A handwritten signature in dark ink, appearing to be "J.S.R.", is located below the text. The signature is stylized with a large, sweeping initial "J" and a smaller "S.R." following it.

DEPARTMENT OF MINES AND NATURAL RESOURCES, WINNIPEG, CANADA

COPY

April 2, 1957.

Mr. D. M. Johnston,  
Legal Counsel,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Mr. Johnston:

This will acknowledge receipt of your letter of March 26th, enclosing a copy of a letter received from Mr. R. T. Perry, Santa Barbara, California, relative to the disbursement of back royalties in respect to Water Flood Unit No. 3 (Document No. 51,298).

You may recall sometime ago, it was suggested by this Department that the disbursement of these back royalties be handled by The California Standard Company once the agreement had been signed. However, there now seems a possibility that this Department may desire to distribute these funds itself.

Would you kindly, therefore, indicate the names of the individuals which your records show are entitled to a share of this money and the share to which each is entitled. It would also be appreciated if similar information were supplied in respect to Equity Agreement, Document No. 52,113.

Yours very truly,

J. S. Richards,  
Director of Mines.

JSR/lm

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

INTER-DEPARTMENTAL  
MEMORANDUM

PROVINCE OF MANITOBA

FROM Director of MinesTO Mr. M. J. Gobert,  
Senior Petroleum Engineer.

ATTENTION \_\_\_\_\_

SUBJECT The California Standard Company -  
Equity Agreement -  
Document No. 52,113.DATE March 29, 1957.

Would you kindly prepare a tabulation of the allocation of production and royalty for Calstan Daly Prov. 1-12 well, in accordance with the provisions of the above document.

  
J. S. Richards.

JSR:lm

INTER-DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

52113

FROM Director of Mines

TO Mr. M. J. Gabert,  
Senior Petroleum Engineer.

ATTENTION \_\_\_\_\_

SUBJECT The California Standard Company -  
Equity Agreement -  
Document No. 52,113.

DATE March 25, 1957.

I am attaching herewith, one copy of agreement with respect to equity adjustment, covering Calstan Daly 13-1, 16-1, 1-12, and 4-12 wells, being Document No. 52,113, which has been duly completed by the Minister of this Department on behalf of the Crown.

This agreement has been ratified by Order-in-Council No. 411/57.

  
J. S. Richards.

JSR/lm  
Enc.

50113

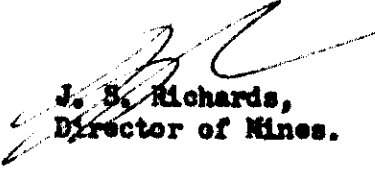
March 23, 1957.

Mr. D. M. Johnston,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Mr. Johnston:

We are returning herewith, three copies of agreement with respect to equity adjustment, covering Calstan Daly 13-1, 16-1, 1-12, and 4-12 wells, being Document No. 52,113, which have been duly completed by the Minister of this Department on behalf of the Crown.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR/lm  
Enc.  
Registered.

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

INTER-DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

FROM Director of Mines

TO Mr. M. J. Gobert,  
Senior Petroleum Engineer.

ATTENTION \_\_\_\_\_

SUBJECT The California Standard Company -  
Flooding Unit No. 3 -  
Document No. 51,298.

DATE March 25, 1957.

I am attaching herewith, one copy of completed agreement, with respect to Flooding Unit No. 3, covering Calstan Daly 2-12, 3-12, 4-12, and 14-1 wells, being Document No. 51,298, which has been duly completed by the Minister of this Department on behalf of the Crown.

This agreement has been ratified by Order-in-Council No. 411/57, a copy of which is also attached.

  
J. S. Richards.

JSR/lm  
Enc.

M. J. Gobert

21298  
J. S. Richards

Unitization Agreement  
Calstan Daly Prov. 3-12 well  
Calstan Daly 14-1 well

March 20, 1957.

In accordance with your recent request, the attached tabulation is an analysis of the Production and Royalty for the Calstan Daly Prov. 3-12 well, in accordance with the unitization agreement presently in process of execution.

From this, it is apparent that the sum of \$3,414.52 is due and payable to Mr. N. R. Williams, as of January 31, 1957.

A handwritten signature in dark ink, appearing to be 'J. S. Richards', is written over the bottom of the letter.

# ANALYSIS OF PRODUCTION & ROYALTY

Calistan Daly Prov. 3-12

Month	Open Inven.	Close Inven.	Prod.	Royalty Disp. bbls.	Royalty bbls. @ 12 1/2%	Ave. Price	Value of Royalty	1/8 Share Williams	1/8 Share Prov. Lease #9	3/8 Share Prov. Lease #31
Dec./54	356	695	2,856	2,519	315	2.61	822.15	102.77	102.77	616.61
Jan./55	695	484	2,602	2,813	352	2.555	899.36	112.42	112.42	674.52
Feb.	484	1,007	2,773	2,250	281	2.449	648.17	86.02	86.02	516.13
Mar.	1,007	990	3,292	3,309	414	2.34	968.76	121.10	121.10	726.56
April	990	1,025	3,434	3,399	423	2.34	994.50	124.31	124.31	745.88
May	1,025	603	4,287	4,709	589	2.34	1,378.26	172.28	172.28	1,033.70
June	603	429	5,021	5,195	649	2.34	1,518.66	189.83	189.83	1,139.00
July	429	981	4,378	3,826	478	2.34	1,118.52	139.82	139.82	838.88
Aug.	981	897	3,832	3,916	490	2.34	1,146.60	143.33	143.33	859.94
Sept.	897	659	3,981	4,219	527	2.34	1,233.18	154.15	154.15	924.88
Oct.	659	586	3,756	3,829	479	2.34	1,120.86	140.11	140.11	840.64
Nov.	586	570	2,962	2,978	372	2.34	870.48	108.81	108.81	652.86
Dec.	570	398	2,632	2,804	351	2.34	821.34	102.67	102.67	616.00
Jan./56	398	290	2,580	2,688	336	2.34	786.24	98.28	98.28	589.68
Feb.	290	585	3,099	2,804	351	2.34	821.34	102.67	102.67	616.00
Mar.	585	798	3,668	3,655	457	2.34	1,069.38	133.67	133.67	802.04
April	798	660	4,173	4,111	514	2.34	1,202.76	150.35	150.35	902.06
May	660	658	4,692	4,694	587	2.34	1,373.58	171.70	171.70	1,030.18
June	658	885	4,748	4,521	565	2.34	1,322.10	165.26	165.26	991.58
July	885	729	4,904	5,060	633	2.34	1,481.22	185.15	185.15	1,110.92
Aug.	729	541	4,468	4,656	582	2.34	1,361.88	170.23	170.23	1,021.42
Sept.	541	433	3,858	3,966	496	2.34	1,160.64	145.08	145.08	870.48
Oct.	433	327	3,538	3,644	456	2.34	1,067.04	133.36	133.36	800.28
Nov.	327	584	2,671	2,414	302	2.34	706.68	88.34	88.34	530.00
Dec.	584	562	2,055	2,077	260	2.34	608.40	76.05	76.05	456.30
Jan./57	562	400	2,388	2,550	319	2.426	773.89	96.74	96.74	580.41
	16,534	16,576	92,648	92,606	11,580		\$27,315.99	\$3,114.52	\$3,114.52	\$20,486.95



829/

March 23, 1957.

Mr. D. M. Johnston,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Mr. Johnston:

We are returning herewith, five copies of completed agreement, with respect to Flooding Unit No. 3, covering Calstan Daly 2-12, 3-12, 4-12, and 14-1 wells, being Document No. 51,298, which have been duly completed by the Minister of this Department on behalf of the Crown.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR/lm  
Enc.  
Registered.

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

No. 411/57

Memorandum of an order of the Lieutenant-Governor-in-Council  
approved and ordered by His Honour the Lieutenant-Governor on

The Honourable the Minister of **Mines and Natural Resources**  
having submitted to Council a report setting forth that:

WHEREAS subsection (1) of Section 68 of "The Mines Act", being Chapter 166 of the Revised Statutes, as the section was enacted by Chapter 45 of the Statutes of Manitoba, 1955, provides as follows:

"68. (1) The Lieutenant-Governor-in-Council may authorize the minister to enter into an agreement for the injection, storage, recycling, or reproduction, in or from an underground formation, of any mineral substance or water.";

AND WHEREAS The California Standard Company has instituted a water flooding programme with a view to securing the most economic recovery of oil and natural gas from certain lands in the Daly Field;

AND WHEREAS the said water flooding programme, mentioned in Schedules A and B, necessitates the entering into "Water Flooding Unitization Agreements" which pool, consolidate, and merge certain oil and natural gas leases issued by the Crown, and other owners of oil and natural gas rights;

AND WHEREAS the Minister of Mines and Natural Resources has entered into the agreements, described in the Schedule A hereto, with the persons who are parties to those agreements;

AND WHEREAS the Minister of Mines and Natural Resources wishes to enter into the agreements, mentioned in Schedule B hereto, with the persons who are parties to those agreements;

AND WHEREAS it is considered that the provisions of the said agreements will result in a better recovery of oil and natural gas from the said lands;

AND WHEREAS it is deemed expedient and advisable to confirm and ratify the agreements mentioned in Schedule A hereto, and to authorize the minister to enter into the agreements mentioned in Schedules A and B.

IN WITNESS he, the Minister, recommends:

THAT the agreements entered into by the Minister of Mines and Natural Resources, and mentioned in Schedule A, be ratified and confirmed, and that the Minister of Mines and Natural Resources be authorized to enter into the agreements mentioned in Schedules A and B.

And, upon consideration of the said report and recommendation on the 18th day of March A.D. 19 57 (the Hon. Mr. Campbell in the Chair), Council having advised that it be done as recommended by the Honourable the Minister of **Mines and Natural Resources** His Honour the Lieutenant-Governor-in-Council was pleased to approve the said report and recommendation and to order that it be done accordingly.

Certified correct

Clerk of the Executive Council

CERTIFIED to be a true copy  
of a document signed by  
CHARLAND PRUDHOMME  
as Deputy Clerk of the  
Executive Council

Deputy

This memorandum is furnished

on

MAR 20 1957

2 Minutes  
1 Minute  
2 Minutes

M. J. Gobert

J. S. Richards

The California Standard Company  
Water Flood - Water Flood  
Water Flooding - Unitization Agreements

March 4, 1957.

In accordance with your recent request, the following  
analysis of all the above agreements filed in this office may  
be of assistance:

Company Spec. No.	Pooled Area	Well Location	Effective Date
8924 ag #1	N/2 1-10-28 S/2 12-10-28	10-1: 14-1: 16-1 <u>15-1</u> : 2-12	May 15, 1953
11,005 ag #2	NE/4 12-10-28 SE/4 11-10-28	4-12: <u>5-12</u> : 6-12: 12-12: <u>8-11</u>	Nov. 1, 1954
12,674 #4	NE/4 10-10-28 SW/4 11-10-28 N/2 11-10-28 SW/4 13-10-28 Sec. 14-10-28	6-11: 9-11: 10-11: 11-11: 12-11: 14-11: <u>15-11</u> : 16-11: 4-13: <u>1-14</u> : 2-14: 8-14	Jan. 7, 1956
11,649	side agreement	14-11: 2-14: <u>3-14</u>	Jan. 7, 1956
11,727	side agreement	16-11: <u>13-12</u> : 4-13	Jan. 11, 1956

Well locations shown as underlined are "producers", whereas  
others are water injection wells.

*[Signature]*

For more  
consultant  
per Sublease "A"  
attached

SCHEDULE A

Agreements for Water Flooding Entered Into  
By the Minister of Mines and Natural Resources

1. Agreement, dated the Fifteenth day of May, 1953,  
respecting the wells described as:

Calstan Daly 10-11, 14-1, 15-1, 16-1;  
Calstan Daly Prov. 2-12; c

and marked "Document No. 8924";

2. Agreement, dated the First day of November, 1954,  
respecting the wells described as:

Calstan Daly Prov. 8-11, 12-12, 5-12, c  
6-12, 12-12; c

and marked "Document No. 11,085";

3. Agreement, dated the Seventh day of January, 1956,  
respecting the wells described as:

Calstan Daly 1-14, 2-14, 8-14; c  
Calstan Daly Prov. 6-11, 9-11, 10-11, c  
11-11, 12-11, 14-11, c  
15-11, 16-11, 4-13; c

and marked "Document No. 12,674";

4. Agreement, dated the Seventh day of January, 1956,  
respecting the wells described as:

Calstan Daly 2-14; c  
Calstan Daly Prov. 14-11, 3-14; c

and marked "Document No. 51,649";

5. Agreement, dated the Eleventh day of January, 1956,  
respecting the wells described as:

Calstan Daly 13-12; c

SCHEDULE B

Agreements for Water Flooding Into Which

The Minister of Mines and Natural Resources Wishes to Enter

1. Agreement, dated the Twenty-sixth day of May, 1956,  
respecting the wells described as:

Calstan Dely 1-1;  
Calstan Dely Provs 2-12, 3-12, 4-12;

and marked "Document No. 51,298"; *on file*

2. Agreement, dated the Twenty-first day of December, 1956,  
respecting the wells described as:

Calstan Dely 1-1, 10-1;  
Calstan Dely Provs 1-12, 4-12;

and marked "Document No. 52,113". *on file*

Director of Mines

Mr. J. G. Cowan, Q.C.,  
Deputy Minister.

The California Standard Company -  
Flood Unit No. 3, Doc. No. 51,298 -  
Equity Agreement, Doc. No. 52,113.

March 1, 1957.

As you are aware, the original water flooding agreement, which included a re-allocation of production from, and to, certain wells by reason of the flooding, was approved by the Minister of this Department, on behalf of the Crown. At this time, it was agreed that the Minister had the power to execute such agreements.

However, Section 68 (1) of An Act to amend The Mines Act, Cap. 45, S.M. 1955, which came into force April 1, 1955, provides:

"68 (1) The Lieutenant-Government-in-Council may authorize the minister to enter into an agreement for the injection, storage, recycling, or reproduction, in or from an underground formation, of any mineral substance or water."

It would, therefore, appear that authority should be obtained for the Minister to approve the above agreements, forwarded with my memorandum of February 27th. It would also appear desirable to confirm by Order-in-Council any similar agreements which have been signed on, or after, April 1, 1955.

Kindly advise if you agree, and if all such agreements may be included in one Recommendation-to-Council.

The wording of Section 68 (1) is so broad that it would appear to also include salt water disposal wells. To date, the Conservation Board has been operating under the authority of clause (f) of subsection (8) of Section 59 of this Act. Board Order No. 35MD, a copy of which is enclosed, was issued by the Board and approved by the Minister. The Board has since authorized individual salt water disposal wells under the authority of Section 4 of this Order. As Section 59 and Section 68 appear to conflict, your advice would be appreciated.

  
J. S. Richards.

JSR:lm  
Enc.

c.c. Mr. M. J. Gobert, Senior Petroleum Engineer.

Director of Mines

Mr. J. G. Cowan, Q.C.,  
Deputy Minister.

The California Standard Company -  
Flooding Unit No. 3, Doc. No. 51,298 -  
Equity Agreement Cal. Stan. Daly  
13-1 and 12-1, Doc. No. 52,113.

February 27, 1957.

Enclosed herewith, for completion by the Minister,  
the following:

1. Six copies of completed agreement with respect  
to Flooding Unit No. 3 covering Cal. Stan. Daly  
3-12, Document No. 51,298.
2. Four copies of completed agreement with respect  
to equity adjustment covering Cal. Stan. Daly  
13-1 well and Cal. Stan. Daly 1-12 well, Document  
No. 52,113.

These documents have been reviewed and appear to be  
entirely in order.

You will recall that we have been trying to complete  
the first document for approximately twenty-one months.

The second document was considered necessary in order  
to protect the Crown's interest at such time as Cal. Stan 4-12 (10-28)  
well is converted to water flood.

The first agreement will require a considerable back  
payment of royalty by the Crown to M. R. Williams. Approximately  
eighteen months ago, it was agreed that this Department would for-  
ward a cheque to California Standard with the request that they  
distribute the money to the royalty holders. This would still  
appear to be the most desirable procedure as, I understand, Mr.  
Williams has sold a considerable part of his royalty interest.  
In the interim, the amount owing by the Crown will be calculated.

It is assumed, as in the past, that all copies will  
be returned to this office on completion for return to the company.

  
J. S. Richards.

JSR:lm

c.c. Mr. M. J. Gobert, Senior Petroleum Engineer.

INTER-DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

FROM Director of Mines

TO Mr. M. J. Gobert,  
Senior Petroleum Engineer.

ATTENTION \_\_\_\_\_

SUBJECT The California Standard Company -  
Water Flooding Unitization Agreements -  
Doc. Nos. 8924 and 11085.


DATE November 30, 1956.

I am forwarding herewith, Documents Nos. 8924 and 11085, being Water Flooding Unitization Agreements in respect to Flooding Unit No. 1 and Flooding Unit No. 2, respectively.

  
J. S. Richards.

JSR/lm  
Encs.





November 30, 1956.

Mr. D. M. Johnston,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Mr. Johnston:

We are returning herewith, the equity adjustment agreement, submitted with your letter of November 21st, in respect to Calstan Daly 4-12 and 1-12 wells, Crown Leases 31 and 9, and Mr. M. R. Williams Leases 1187 and 1188. We find this document satisfactory except that a typographical error on page 1 has changed Mr. Williams initials. We would suggest that September 1, 1955, could be the effective date in respect to Crown Lease 9 and Williams Lease 1188.

Mr. Young has advised that Mr. Williams considers that his Daly 16-1 well should share in the production of the Provincial Daly 13-6 well. The situation in respect to Daly 13-6 is somewhat different from that of any other wells on which "side agreements" have been completed or suggested; for one thing, it is outside any pooled area so far defined. We would appreciate receiving any comments you may care to make in this connection. ✓

It is assumed that when the document is submitted for execution by the Minister of this Department, it will be accompanied by Flood Unit No. 3 and Document No. 51,726.

Yours very truly,



J. S. Richards,  
Director of Mines.

JSR:lm  
Enc.



c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

M.J. Gobert

J. S. Richards

Equity Adjustment Agreement

November 28/56

The California Standard Company

Calstan Daly Prov. 4-12 C - Lease No. 31  
Calstan Daly 13 - 1 F - Lease No. 1187  
Calstan Daly Prov. 1 - 12 C - Lease No. 9  
Calstan Daly 16 - 1 F - Lease No. 1188

Returned herewith is your complete file on the above mentioned agreement and related agreements, together with the proposed draft of the said agreement and letter dated November 21, 1956, signed by Mr. D. M. Johnston.

The equity adjustment as presented is considered excellent and, with reference to Leases 31 and 1187, possibly the only reasonable approach. However, it is realized that there will be an appreciable time lag between fill up on Calstan Daly Prov. 4-12 and visible affect on Calstan Daly 13-1.

With reference to Leases 9 and 1188, the effective date of the agreement is more difficult to arrive at.

However, since Calstan Daly 16-1 went on injection in August 1953 and Calstan Daly Prov. 1-12 was completed in August 1955, one could assume that fill up had occurred and that the effective date should be September 1, 1955.

A handwritten signature in dark ink, appearing to be 'J.S.R.', is located at the bottom center of the page.

9

5/6/57  
attached

November 5, 1956.

Mr. H. G. Nicholson,  
Vice-President,  
Secretary and Treasurer,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Sir: Attention: Mr. D. M. Johnston

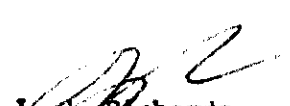
You will recall that on August 10th, you advised that you planned to clear up all outstanding equity problems including Water Flooding Unit No. 3.

Mr. N. R. Williams called at this office today and showed me a letter from your company stating that the Water Flooding Unit No. 3 had not been completed because "to date the Manitoba Government has not executed the Agreement." Mr. Williams naturally took this to mean that the Crown had refused to sign the agreement. When our position in respect to 4-12 was explained, Mr. Williams agreed that it was entirely reasonable and that he thought this matter was included in the agreement.

As you are aware, this agreement has now been dragging for about a year and a half; we would request that every effort be made to finalize it immediately.

On many occasions your company has stated its intention to convert 4-12 to injection. Would you kindly advise if this conversion is going forward.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

JSR:lm

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

Converted  
Nov 9, 1957

INTER-DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

1704 - 12674

FROM Director of Mines

TO Mr. M. J. Gobert,  
Senior Petroleum Engineer.

ATTENTION \_\_\_\_\_

SUBJECT The California Standard Company -  
Water Flooding Unitization Agreement -  
Document No. 12674

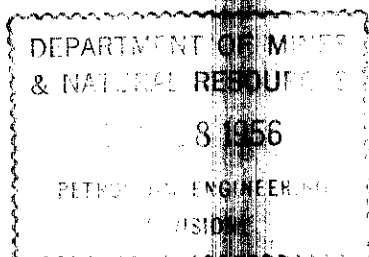
DATE September 28, 1956.

Enclosed herewith, for your records  
Water Flooding Unitization Agreement, Document No. 12674,  
duly executed by the Minister on behalf of the Crown.  
This Agreement covers the most recent expansion of the  
water flood project in the Daly Field.

  
J. S. Richards.

JSR/lm

Enc.



*Copy*  
Director of Mines

*Mr. J. G. Cowan, Q.C.,  
Deputy Minister.*  
Mr. J. G. Cowan, Q.C.,  
Deputy Minister.

Royalty Agreement -  
Calstan Daly 11-12 Well.

September 21, 1956.

Enclosed herewith, copy of a letter from this office to D. M. Johnston, The California Standard Company, relative to Calstan Document No. 51,726 and Mr. Johnston's reply thereto. This document is a royalty agreement in respect to the Calstan Daly 11-12 well, necessitated by the water flood programme and similar to others which have been completed.

Dealing with the points in the same order as Mr. Johnston, our interpretation to the wording in respect to the Daly 10-12 well was that it stated in advance that all parties, including the Crown, were agreeable to the conversion of the Canadian Superior 10-12 well to injection. We have previously objected to documents which commit the Minister to approval of project in advance.

In regard to the effective date of the document, we felt that, if possible, it should be dated back to the date that salt water injection commenced.

Referring to Mr. Johnston's reference to prior approval of the Document, our file indicates that approval was given provided it did not differ from others which had been approved.

*J. S. Richards.*  
J. S. Richards.

JSR:lm  
Encs.

P.S. -- Kindly advise if you consider that the Department should insist on the changes which have been requested.

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.

*with copy of letters as per paragraph 1.*

THE CALIFORNIA STANDARD COMPANY

H. G. Nicholson  
Vice-President  
Secretary and Treasurer

Calgary, Alberta

September 17th, 1956.

Mr. J. S. Richards,  
Director of Mines,  
Department of Mines & Natural Resources,  
Mines Branch,  
WINNIPEG, Manitoba.

Dear Sir:

Re: Document No. 51,726

I acknowledge receipt of your letter dated August 14th, 1956.

Dealing with your last point first, you will recall that the North-east Quarter of Section Twelve (12), Township Ten (10), Range Twenty-eight (28), West of the Principal Meridian is held under lease by Canadian Superior Oil of California Ltd. Document No. 51,726 deals with the sharing of production from Calstan Daly 11-12 well. To finally complete the 80 acre spacing unit on which Calstan Daly 11-12 well is situated, it will be necessary for California Standard and Canadian Superior to reach an agreement whereby Canadian Superior 10-12 is converted to water injection. Document No. 51,726 merely provides that Document No. 51,726 will terminate when California Standard and Canadian Superior reach such agreement. (The actual application for permission to inject water will, of course, be made to the Conservation Board by the proper operator.) When the spacing unit is complete, the need for the equity agreement disappears.

In connection with your first point, as to date of commencement, you will remember that Calstan Daly 11-12 was a producing oil well outside a spacing unit, and was included in the first expansion agreement of the original pooled area. Legally speaking, the Subscribers were not obligated in any way to sign Document No. 51,726, as the entire problem of adjusting equities came up after the first expansion agreement had been signed. It seemed to us in drafting the agreement that the present form was more desirable than an agreement which could possibly be construed as constituting pressure from the Crown. A draft of this agreement, you will recall, was forwarded to you on

Mr. J. S. Richards, Winnipeg

- 2 -

September 17th, 1956.

December 6, 1955, and according to my file you telephoned me on December 13, 1955, approving the other agreements. We went ahead on that basis.

I wonder, therefore, if you would give some further consideration to your position. Do not hesitate to call me if I can be of any assistance.

Yours very truly,

"D. M. Johnston"

for H. G. NICHOLSON

DEPARTMENT OF MINES AND NATURAL RESOURCES, WINNIPEG, CANADA

COPY

12670  
H. 11

August 27, 1956.

Mr. W. J. Kennedy,  
The California Standard Company,  
153 - 8th Street,  
Brandon, Manitoba.

Dear Sir:

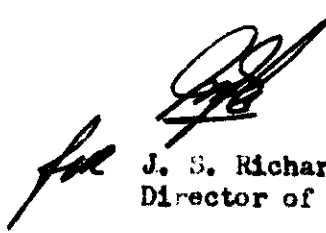
Re: Water Flooding Unitization  
Agreement No. 4.

We are enclosing herewith, four copies of Water Flooding Unitization Agreement No. 4, covering certain acreage in Township 10, Range 28, W.P.M., duly executed by the Honourable F. C. Bell, Minister of Mines and Natural Resources, on behalf of the Crown in the right of the Province of Manitoba.

Mr. Cowan advises that we will have no objection to your filing a caveat against the Crown lands covered by this Agreement.

When execution is complete, kindly return one copy for our records.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

MJG:lk  
Encs.  
Registered.

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer.



DEPARTMENT OF MINES AND NATURAL RESOURCES, WINNIPEG, CANADA

COPY

August 27, 1956.

Mr. D. M. Johnston,  
The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Sir:

Re: Royalty Agreement - Calstan Daly 13-12

We are returning herewith, five (5) copies of  
Document No. 51,727, which provides for the allocation of pro-  
duction from

Calstan Daly 13-12 (10-28 W.)

This Agreement has been executed by the Honour-  
able F. C. Bell, Minister of Mines and Natural Resources, on  
behalf of the Crown in the right of the Province of Manitoba.

We have retained one copy for our records.

Yours very truly,

  
J. S. Richards,  
Director of Mines.

MJG:lk  
Encs.  
Registered.

c.c. Mr. M. J. Gobert,  
Senior Petroleum Engineer,  
with one copy of Agreement.

PROVINCE OF MANITOBA  
DEPARTMENT OF MINES AND NATURAL RESOURCES, WINNIPEG, CANADA

COPY

August 14, 1956.

The California Standard Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Sirs:     Attention: Mr. D. M. Johnston

We are returning herewith, six copies of Document No. 51,726, forwarded with your letter of August 1st. It is suggested that, as all similar agreements have been effective from the date that the affecting injection well is "used for injecting water into the Mississippian formation," this agreement should have a similar effective date.

We were not aware that "all the parties have agreed" that when the company enters into an agreement in respect to the Northeast quarter of Section 12 and "a water injection well is located on subdivision 10 of this quarter," there will be a sharing of the production from Calstan Daly 11-12. Would you kindly clarify the last paragraph on page one of the agreement, which makes these statements.

Yours very truly,

"J. S. R."

J. S. Richards,  
Director of Mines.

JSR:lk  
Encs.  
Registered.

May 2, 1956.

Mr. H. W. How,  
The California Standard Company,  
153 - 8th Street,  
Brandon, Manitoba.

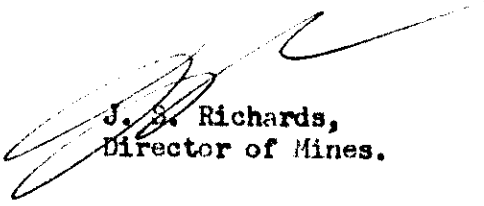
Dear Sir:

This will acknowledge with thanks your letter of April 27th, relative to the Daly Water Flood Unit No. 3 and other water flood agreements.

We must apologize in respect to the agreement pertaining to Daly Prov. 3-14. We have found a copy of this agreement on our files, and regret any inconvenience which may have been created by this request.

We are awaiting with interest receipt of the other agreements mentioned in your letter.

Yours very truly,



J. S. Richards,  
Director of Mines.

JSR/lk

c.c. to: Mr. M. J. Gobert,  
Senior Petroleum Engineer,  
with copy of agreement returned herewith.

DEPARTMENT OF MINES AND NATURAL RESOURCES, WINNIPEG, CANADA

COPY

February 29, 1956.

Mr. C. E. Sims,  
Vice-President,  
Producing Department,  
The California Lumber Company,  
Medical Arts Building,  
Calgary, Alberta.

Dear Mr. Sims:

We are in receipt of a letter from Mr. H. E. How, dated February 27th, advising that the agreement in respect to Daly Water Flood Unit No. 3 was never completed owing to the fact that Daly Prov. 4-12 has never been flooded.

This came as a complete surprise to us, as after rather lengthy correspondence, initiated by you, we had agreed as to the date from which Flooding Unit No. 3 should be considered to be in existence and the method of adjusting the royalty payments to Mr. Williams; the last communication, I believe, being on July 29, 1955, over my signature. At no time was the 4-12 well mentioned, except during informal discussions between officials of your company and this Department. In these discussions it was agreed that 4-12 should remain as a producing well for some time, but with the understanding it would have to be converted to an injection well before too long. As you are also aware, an application to convert 4-12 to an injection well was received and approved by the Oil and Natural Gas Conservation Board some time ago.

Messrs. Williams, Cory, and others were recently in this office discussing the overall problem. While Mr. Williams stated that he had not signed the agreement in respect to Flood Unit No. 3, he at no time said he had refused to sign because 4-12 was not converted to injection. However, he did state that he considered that 4-12 should be converted and appeared satisfied when advised that an application had been received and apparently it was your intention to proceed with this conversion.

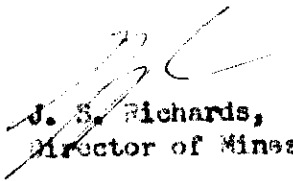
In other words, I believe Mr. Williams will sign the agreement in respect to Flood Unit No. 3 as soon as you convince him that 4-12 will be converted to injection.

Re, Mr. H. W. How, February 29, 1956.

As this matter was first submitted for consideration last May, we feel that it should be finalized as soon as possible. Could you kindly advise what action will be taken.

In regard to the last paragraph of Mr. How's letter referring to agreements respecting wells on the fringe of proposed units, it is noted that no reference is made to the main agreement covering the most recent expansion. Could you kindly advise when we may expect to receive a copy.

Yours very truly,



J. S. Richards,  
Director of Mines.

J. S. R.

C.C. to: Mr. H. W. How,  
The California Standard Company,  
153 - 3th Street,  
Brandon, Manitoba.

Mr. J. G. Cowan, Q.C.,  
Deputy Minister.

Mr. M. J. Gobert,  
Senior Petroleum Engineer.

INTER-DEPARTMENTAL  
MEMORANDUM



PROVINCE OF MANITOBA

FROM Director of Mines

TO Mr. M. J. Gobert,  
Senior Petroleum Engineer.

ATTENTION \_\_\_\_\_

SUBJECT Water Flood Equity Agreement,  
Calstan Daly Prov. 3-14 well.

DATE February 11, 1956.

Enclosed herewith, Water Flood Equity Agreement  
covering production from Calstan Daly Prov. 3-14 well, duly  
executed by the Minister, Mr. J. M. Younge, and the company.

*[Signature]*  
J. S. Richards.

JSR/lk  
Enc.

*Seems OK*  
*R*  
*MJC*

### FLOOD UNIT #3

The California Standard Company has suggested that Flood Unit #3, which is now a physical fact, be formed for accounting purposes. In the interest of equity, the unit should be formed and the agreement backdated to December 1, 1954.

From the inception of Flood Units #1, in August, 1953, and #2, in December, 1954, to the end of May, 1955, the Calstan Daly #3-12 well has benefitted by an estimated increase in production of 48,000 bbls. (Table 1). Since Flood Unit #2 was formed the Crown has received, from the 3-12 well, nearly \$6,000 of Royalty payment of which about \$730 should have gone to Mr. Williams, the lessor of the California Standard Williams lease #1187 (Table II).

Decline curves constructed show that the #3-12 well would have produced about 23,000 bbls., under normal methods, between July 1, 1953 and May 31, 1955, while the actual production was 70,832 bbls. Between July 1, 1953 and December 1, 1954, the comparable figures are about 19,000 bbls. and actual 51,588. Thus about 32,000 bbls. of increased production was caused by Flood Unit #1 and Units 1 & 2 combined to increase production by about 15,000 bbls.

Under the present system of Flood Units, wells offsetting injection wells outside the Flood pattern may benefit from the flood but contribute nothing to the cost. As was noted previously (memo to J.S. Richards, Mar. 29/55), a new approach to Flood Unit allocation of oil production should be made. Since the present units, 1 & 2, have been agreed to signed, the 4-12 well conversion approved in principal, and Flood Unit #3 a physical fact, there is probably no legal grounds for change but if any future Flood Units are created, consideration should be given to an alteration in allocation of production from wells offsetting injection wells.

RK

PROVINCE OF MANITOBA  
DEPARTMENT OF MINES AND NATURAL RESOURCES, WINNIPEG, CANADA

COPY

May 6, 1955.

Mr. C.D. Mims,  
Vice-President, Producing,  
The California Standard Company,  
Calgary, Alberta.

Dear Mr. Mims:

Re: Proposed Flooding Unit No. 3 --  
Daly Field

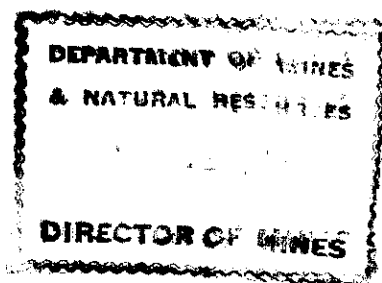
I have your letter of May 2 enclosing a sketch map of the area outlined in the proposal.

I have forwarded a copy of your letter and the sketch to Mr. J.S. Richards, Director of Mines, and as soon as I hear from him I will write to you further.

Yours very truly,

J.G. Cowan,  
Deputy Minister.

JGC/mm  
cc. Mr. J.S. Richards, ✓  
Director of Mines.





C O P Y

THE CALIFORNIA STANDARD COMPANY

Calgary, Alberta.

May 2, 1955.

Mr. J. G. Cowan,  
Deputy Minister,  
Department of Mines & Natural  
Resources,  
WINNIPEG, Manitoba.

Dear Mr. Cowan:

Re: Proposed Flooding Unit No. 3 --  
Daly Field

You will recall that by an agreement dated on November 1, 1954 we formed Flooding Unit Number 2 in the Daly Field. Under that agreement California Standard Daly 8-11, California Standard Daly 12-12 and California Standard Daly 6-12 were converted to water injection. California Standard 4-12 remained a producing well, although it was used to outline the second unit.

I am pleased to be able to report that California Standard Daly 5-12 has shown an improvement in average daily production, and that the flooding operations appear to have been helpful to date.

Since the second unit appears to be working, we feel that in fairness to Mr. N. R. Williams and his assigns, we should inquire from you as to whether you would be willing to have us form Flooding Unit No. 3. Essentially this would involve allocating production from California Standard Daly 3-12 well as follows:

Lease No. 1187	N. R. Williams	1/8
Manitoba Provincial Lease No. 31		6/8
Manitoba Provincial Lease No. 9		1/8

and paying royalties on the production so allocated.

For the time being we do not propose to convert Daly 4-12 to water injection, and would continue to regard it as a producing well. It would only be used to outline the third unit.

Since this involves the Crown giving up production, we are approaching you first. This matter has not been discussed to my knowledge with Mr. Williams. On his behalf however, I would urge that in our opinion production from California Standard Daly 3-12 appears to have benefitted materially over several months from the operation of both Flooding Units No. 1 and No. 2.

Mr. J. G. Cowan

May 2, 1955.

It may be that the Crown would be willing to pass a percentage of this benefit on to Mr. Williams. We would suggest May 1, 1955 as a cut off date, but we are of course willing to be governed by your wishes.

May I emphasize that the company has no financial interest in forming a third unit at this time, and it is proposed as a matter of equity. If the Crown were opposed to the formation of the unit, we would not proceed.

I am enclosing a sketch map of the area outlining the proposal.

We would appreciate hearing from you when you have had an opportunity of considering the matter.

Yours very truly,

"C. D. MIMS"

Encls.

TABLE II

Value of Royalty paid by Leaseholder  
and distribution of Royalty if Unit #3  
formed with Unit #2

<u>Month-Year</u>	<u>Wells Production</u>	<u>Royalty \$ (A)</u>	<u>1/8 Share to Millions</u>	<u>1/8 Share to Prov. Lease #9</u>	<u>1/8 Share to Prov. Lease #11</u>
Dec./54	2856 ✓	957. ✓ 952	120	120	717
Jan./55	2602	831 850	104	104	624
Feb./55	2713	849 847	106	106	637
Mar./55	3292	963 964	120	120	720
Apr./55	3434	1004 1004	125	125	754
May /55	<u>6287</u>	<u>1254</u> 1254	<u>157</u>	<u>157</u>	<u>940</u>
Totals	19,244	5,858	732 ✓	<u>732</u>	4,394

(A) - approximate

TABLE II

Value of Royalty paid by Leaseholder  
and distribution of Royalty if Unit #3  
formed with Unit #2

<u>Month-Year</u>	<u>Wells Production</u>	<u>Royalty \$ (A)</u>	<u>1/8 Share to Williams</u>	<u>1/8 Share to Prod. Lease #9</u>	<u>1/8 Share to Prod. Lease #31</u>
Dec./54	2856	957	120	120	717
Jan./55	2602	851	104	104	624
Feb./55	2773	849	106	106	637
Mar./55	3292	963	120	120	720
Apr./55	3434	1004	125	125	754
May /55	<u>4287</u>	<u>1254</u>	<u>157</u>	<u>157</u>	<u>940</u>
Totals	19,244	9,458	732	732	4,394

(A) - approximate