Chevron Canada Resources
P.O. Box 100, Virden, Manitoba R0M 2C0
Phone (204) 748-1334 Fax (204) 748-6762

1990-09-24

Department of Energy and Mines
Petroleum Branch
555 - 330 Graham Avenue
WINNIPEG, Manitoba
R3C 4E3

ATTENTION: Mr. John Fox

Dear Sir:

RE: Daly Unit #3 Pressure Survey

Chevron Canada Resources, as operator of the subject unit, requests exemption from the requirement of conducting annual reservoir pressure surveys. We request that these surveys be conducted once every three years as in our other fields.

Comprehensive annual pressure surveys have been conducted in Daly Unit #3 since 1985 and were required due to expansion of the waterflood at that time. We request the reduction in frequency for the following reasons:

1. Over voidage has created a pressure bank that has gradually increased the average reservoir pressure during the last five years. Chevron intends to keep a net voidage ratio of 1.2 to maintain reservoir pressures well above the saturation pressure.

2. Increases in average reservoir pressures can be adequately monitored by triennial pressure surveys. Reservoir pressures between surveys can be predicted by historical increases and current production and injection rates.

3. Pressure survey results are of no value to waterflood management. The waterflood is presently monitored by production response and voidage.

4. Annual pressure surveys cost both Chevron and the Crown reductions in revenues with no long term benefits.

Attached are results for the last five year's surveys. If any additional information is required please contact Tom Ruml or Lyle Martinson at the letterhead address.

Yours truly,

for: L. A. Martinson, P. Eng.
Area Superintendent
Virden

TJR/tjs
Attachments

1990-9-24

Chevron Canada Resources

Daly Unit #3

Five Year Subsurface Pressure Survey Results

Well	1986	1987	1988	1989	1990
13-6-10-27	2140	2015	-	-	-
4-7-10-27	-	-	2670	3100	-
11-1-10-28	870	1155	1145	2095	1340
7-2-10-28	10585	10604	10450	10491	10350
10-2-10-28	-	-	-	-	1660
12-2-10-28	8855	8975	9225	9470	9720
16-10-10-28	10075	-	11300	11465	11400
2-11-10-28	-	-	-	-	12850
5-11-10-28	11250	11750	11805	12020	11800
6-11-10-28	7980	10480	-	-	-
10-11-10-28	-	-	11400	12795	12520
16-11-10-28	6870	6950	-	-	-
4-12-10-28	-	-	10735	11800	14210
5-12-10-28	7135	8895	8170	-	8765
7-12-10-28	1440	1700	1945	2190	-
8-12-10-28	-	-	-	-	15480
10-12-10-28	9510	-	-	-	-
12-12-10-28	-	12380	11930	14695	14890
1-13-10-28	6170	6120	6315	6585	6160
5-13-10-28	-	-	-	2200	1930
11-13-10-28	-	8720	-	-	-
13-13-10-28	10240	10390	10590	10755	10670
15-13-10-28	4340	4360	5085	5815	6390
4-14-10-28	-	-	-	-	11380
5-14-10-28	10354	8360	9125	9510	-
7-24-10-28	710	1145	-	-	-

Manitoba

Energy and Mines Petroleum

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

(204) 945-6577

February 6, 1990

Chevron Canada Resources
Box 100
Virden, Manitoba
ROM 2CO

Attention: Mr. John Cooke

Dear John:

Re: Annual Pressure Surveys
Virden Roselea Unit No. 1
Virden Roselea Unit No. 2
Virden Roselea Unit No. 3
Daly Unit No. 3
Daly Unit No. 4

Your proposed 1990 pressure survey plans for the subject Units are hereby acknowledged and approved.

Yours sincerely,

L. R. Dubreuil
Director

Chevron Canada Resources
P.O. Box 100, Virden, Manitoba R0M 2C0
Phone (204) 748-1334 Fax (204) 748-6762

1990-02-01

Department of Energy and Mines
Petroleum Branch
555 - 330 Graham Avenue
WINNIPEG, Manitoba
R3C 4E3

ATTENTION: Mr. John Fox

Dear Sir:

RE: Daly Unit #3 - 1990 Subsurface Pressure Survey

Chevron Canada Resources, as operator of Daly Unit #3, submits the following information regarding the 1990 Subsurface Pressure Survey:

1. List of wells to be surveyed.
2. Measurement technique.
3. Well status.

The method of pressure measurement will remain the same as previous years; for suspended wells, pressure bombs will be used, producing wells will be shut-in and fluid levels taken until pressure build-up is less than 5% per week and injectors will be shut-in and the fall-off pressure recorded for approximately 2 - 3 weeks.

This year's survey is scheduled for April and May. If additional information is required, please contact Tom Ruml or John Cooke at 748-1334 or at the letterhead address.

Yours truly,

L. A. Martinson, P. Eng.
for Area Superintendent
Virden

TR/tjs
Encls.

Daly Unit #3

1990 Subsurface Pressure Survey

Well	Method	Status
11-1-10-28	Sonolog	Producing
7-2-10-28	Pressure Bomb	Suspended
12-2-10-28	Pressure Bomb	Suspended
16-10-10-28	Pressure Bomb	Suspended
2-11-10-28	Surface fall off	Suspended
5-11-10-28	Pressure Bomb	Suspended
10-11-10-28	Surface fall off	Injecting
4-12-10-28	Surface fall off	Injecting
5-12-10-28	Sonolog	Producing
8-12-10-28	Surface fall off	Suspended
12-12-10-28	Surface fall off	Injecting
1-13-10-28	Pressure Bomb	Suspended
5-13-10-28	Sonolog	Producing
13-13-10-28	Pressure Bomb	Suspended
15-13-10-28	Pressure Bomb	Suspended
5-14-10-28	Pressure Bomb	Suspended

Chevron Canada Resources
295 – 3rd Avenue S., P.O. Box 100, Virden, Manitoba R0M 2C0
Phone (204) 748-1334

1989-06-21

Department of Energy and Mines
Petroleum Branch
555 - 330 Graham Avenue
WINNIPEG, Manitoba
R3C 4E3

ATTENTION: Mr. John Fox

Dear Sir:

RE: Daly Unit #3 - 1989 Subsurface Pressure Survey

Chevron Canada Resources, as operator of Daly Unit #3, submits the following information regarding the 1989 Annual Subsurface Pressure Survey:

1) List of wells and the method of survey used.

2) Calculated reservoir pressures from the 1989 Survey as well as results from the previous year.

3) A map of Daly Unit #3 showing the calculated pressures.

In general, most of the wells showed a slight increase in reservoir pressure over previous years, indicating the waterflood is continuing to provide pressure support in Daly Unit #3.

5-14 could not be surveyed this year due to an obstruction in the wellhead.

Should you have any questions regarding the enclosed information, please contact Mr. T. J. Ruml or Mr. J. Cooke at 748-1334 or at the letterhead address.

Yours truly,

L. A. Martinson, P. Eng.
Area Superintendent
Virden

TJR/tjs
Enclosures

1989 Subsurface Pressure Results

Well	Survey Method	Datum Depth Pressure (kPa) 1989 Survey	1988 Survey
4-7-10-27	Sonolog	3 102	2 670
11-1-10-28	Sonolog	2 095	1 145
7-2-10-28	Pressure bomb	10 490	10 451
12-2-10-28	Pressure bomb	9 470	9 223
16-10-10-28	Pressure bomb	11 466	11 301
5-11-10-28	Pressure bomb	12 022	11 806
10-11-10-28	Surface fall off	12 795	11 400
4-12-10-28	Surface fall off	11 798	10 734
7-12-10-28	Sonolog	2 187	1 945
12-12-10-28	Surface fall off	14 694	11 929
1-13-10-28	Pressure bomb	6 586	6 315
5-13-10-28	Sonolog	2 203	-
13-13-10-28	Pressure bomb	10 757	10 598
15-13-10-28	Sonolog	5 813	5 085
5-14-10-28	Pressure bomb	-	9 124

Datum Depth: -237.7m