Drilling Completions & Workovers

Chevron

Chevron Canada Resources
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P.B. (Paul) MacMillan
Drilling Team Leader

03/13/98

MANITOBA ENERGY & MINES
MAR 16 1998
PETROLEUM & ENERGY BRANCH

Manitoba Department of Energy and Mines
Petroleum Branch
360 - 1395 Ellice Avenue
Winnipeg, Manitoba
R3G 3P2

- 1997 Virden Rosela Unit # 1 and # 2 Presure Surveys by
Mike Davies Well test analyst at 234 - 5103

A copy of this transmittal will be kept in our files.

If you have any questions regarding the above, please contact **Melody Chardon at 234-5509**.

Thank You.

March 5, 1998

1997 Virden Rosela Unit #1 and #2 Pressure Surveys

Unit #1
15-24-10-26
15-25-10-26
07-25-10-26
05-30-10-25
11-25-10-26

Unit #2
12-05-11-25
10-06-11-25
16-06-11-25

Joe Taylor
Kevin Anderson

Summary

The subject wells were shut in during the months of September and October, 1997 to determine average reservoir pressure. Each well was shut in and the surface pressure was measured using a pressure gauge from the wellhead. The results of the test are summarized in the tables below:

Unit #1 Tests

Well Location	*Well Type*	*Final Recorded Pressure (kPa)*
15-24-10-26	Injector	8,599
15-25-10-26	Injector	7,013
07-25-10-26	Injector	7,649
05-30-10-25	Injector	9,653
11-25-10-26	Injector	7,936

Unit #2 Tests

Well Location	*Well Type*	*Final Recorded Pressure (kPa)*
12-05-11-25	Injector	8,712
10-06-11-25	Injector	6,713
16-06-11-25	Injector	9,117

All pressures are determined by adding the hydrostatic head of the water column to the measured well head pressure. All pressures are final pressures which were deemed to have built up to within +/- 200 KPa of the actual bottom hole pressure. Both build up summaries are included as attachments.

If you have any questions about this analysis, please contact Mike Davies at 234-5103.

Mike Davies
Well Test Analyst

pc. P.W. Bateman
Producing Records

Attachment

Tabulated Pressure Readings

Virden Rosela Unit #1

Pressure Buildup Survey

Well (Injector)	Date / Time	Tbg. Press (kPa)	Mid Point Perfs (m)	Cumlative Tim	Est. BHP (kPa)
15-24-10-26 Injector	9/13/97 0:00	4500	615.4	0:00:00	10899
	9/14/97 0:00	4800	615.4	24:00:00	11199
Avg. Inj. Rate = xxx	9/15/97 0:00	3500	615.4	48:00:00	9899
m3 WPD @ xxxx kPA	9/16/97 0:00	3300	615.4	72:00:00	9699
	9/17/97 0:00	3100	615.4	96:00:00	9499
	9/18/97 0:00	3000	615.4	120:00:00	9399
	9/19/97 0:00	2900	615.4	144:00:00	9299
	9/20/97 0:00	2800	615.4	168:00:00	9199
	9/21/97 0:00	2800	615.4	192:00:00	9199
	9/22/97 0:00	2700	615.4	216:00:00	9099
	9/23/97 0:00	2700	615.4	240:00:00	9099
	9/24/97 0:00	2700	615.4	264:00:00	9099
	9/25/97 0:00	2600	615.4	288:00:00	8999
	9/26/97 0:00	2600	615.4	312:00:00	8999
	9/27/97 0:00	2500	615.4	336:00:00	8899
	9/29/97 0:00	2500	615.4	384:00:00	8899
	10/1/97 0:00	2500	615.4	432:00:00	8899
	10/3/97 0:00	2500	615.4	480:00:00	8899
	10/5/97 0:00	2400	615.4	528:00:00	8799
	10/7/97 0:00	2200	615.4	576:00:00	8599
	10/9/97 0:00	2100	615.4	624:00:00	8499
	10/11/97 0:00	2100	615.4	672:00:00	8499
	10/13/97 0:00	2300	615.4	720:00:00	8699
	10/15/97 0:00	2200	615.4	768:00:00	8599
	10/17/97 0:00	2400	615.4	816:00:00	8799
	10/19/97 0:00	2400	615.4	864:00:00	8799
	10/22/97 0:00	2200	615.4	936:00:00	8599

Well (Injector)	Date / Time	Tbg. Press (kPa)	Mid Point Perfs (m)	Cumlative Tim	Est. BHP (kPa)
15-25-10-26 Injector	9/16/97 0:00	3000	597.5	0:00:00	9213
	10/1/97 0:00	1100	597.5	360:00:00	7313
Avg. Inj. Rate =	10/16/97 0:00	800	597.5	720:00:00	7013
m3 WPD @ xxx kPA					

Well (Injector)	Date / Time	Tbg. Press (kPa)	Mid Point Perfs (m)	Cumlative Tim	Est. BHP (kPa)
07-25-10-26 Injector	9/13/97 0:00	4800	581.72	0:00:00	10849
	9/14/97 0:00	3200	581.72	24:00:00	9249
Avg. Inj. Rate = xx	9/15/97 0:00	3000	581.72	48:00:00	9049
m3 WPD @ xxxx kPA	9/16/97 0:00	2800	581.72	72:00:00	8849
	9/17/97 0:00	2700	581.72	96:00:00	8749
	9/18/97 0:00	2600	581.72	120:00:00	8649
	9/19/97 0:00	2500	581.72	144:00:00	8549
	9/20/97 0:00	2400	581.72	168:00:00	8449
	9/21/97 0:00	2400	581.72	192:00:00	8449
	9/22/97 0:00	2300	581.72	216:00:00	8349
	9/23/97 0:00	2300	581.72	240:00:00	8349
	9/24/97 0:00	2200	581.72	264:00:00	8249
	9/25/97 0:00	2200	581.72	288:00:00	8249
	9/26/97 0:00	2200	581.72	312:00:00	8249
	9/27/97 0:00	2200	581.72	336:00:00	8249
	9/29/97 0:00	2000	581.72	384:00:00	8049
	10/1/97 0:00	2000	581.72	432:00:00	8049
	10/3/97 0:00	1800	581.72	480:00:00	7849
	10/5/97 0:00	2000	581.72	528:00:00	8049
	10/7/97 0:00	1800	581.72	576:00:00	7849
	10/9/97 0:00	1800	581.72	624:00:00	7849
	10/11/97 0:00	1800	581.72	672:00:00	7849
	10/13/97 0:00	1800	581.72	720:00:00	7849
	10/15/97 0:00	1800	581.72	768:00:00	7849
	10/17/97 0:00	1800	581.72	816:00:00	7849
	10/19/97 0:00	1800	581.72	864:00:00	7849
	10/22/97 0:00	1600	581.72	936:00:00	7649

Well (Injector)	Date / Time	Tbg. Press (kPa)	Mid Point Perfs (m)	Cumlative Tim	Est. BHP (kPa)
05-30-10-25 Injector	9/16/97 0:00	4200	610.9	0:00:00	10553
	10/1/97 0:00	3500	610.9	360:00:00	9853
Avg. Inj. Rate = xxx	10/16/97 0:00	3300	610.9	720:00:00	9653
m3 WPD @ xxxx kPA					

Well (Injector)	Date / Time	Tbg. Press (kPa)	Mid Point Perfs (m)	Cumlative Tim	Est. BHP (kPa)
11-25-10-26 Injector	9/13/97 0:00	2600	590.1	0:00:00	8736
	9/14/97 0:00	2000	590.1	24:00:00	8136
Avg. Inj. Rate = xx	9/15/97 0:00	1900	590.1	48:00:00	8036
m3 WPD @ xxxx kPA	9/16/97 0:00	2000	590.1	72:00:00	8136
	9/17/97 0:00	1900	590.1	96:00:00	8036
	9/18/97 0:00	1900	590.1	120:00:00	8036
	9/19/97 0:00	1900	590.1	144:00:00	8036
	9/20/97 0:00	1900	590.1	168:00:00	8036
	9/21/97 0:00	1900	590.1	192:00:00	8036
	9/22/97 0:00	1800	590.1	216:00:00	7936
	9/23/97 0:00	1800	590.1	240:00:00	7936
	9/24/97 0:00	1800	590.1	264:00:00	7936
	9/25/97 0:00	1800	590.1	288:00:00	7936
	9/26/97 0:00	1800	590.1	312:00:00	7936
	9/27/97 0:00	1800	590.1	336:00:00	7936
	9/29/97 0:00	1800	590.1	384:00:00	7936
	10/1/97 0:00	1800	590.1	432:00:00	7936
	10/3/97 0:00	1800	590.1	480:00:00	7936
	10/5/97 0:00	1800	590.1	528:00:00	7936
	10/7/97 0:00	1800	590.1	576:00:00	7936
	10/9/97 0:00	1800	590.1	624:00:00	7936
	10/11/97 0:00	1800	590.1	672:00:00	7936
	10/13/97 0:00	1800	590.1	720:00:00	7936
	10/15/97 0:00	1800	590.1	768:00:00	7936
	10/17/97 0:00	1800	590.1	816:00:00	7936
	10/19/97 0:00	1800	590.1	864:00:00	7936
	10/22/97 0:00	1600	590.1	936:00:00	7936

Virden Rosela Unit #2

Pressure Buildup Survey

Well (Injector)	Date / Time	Tbg. Press (kPa)	Mid Point Perfs (m)	Cumlative Time	Est. BHP (kPa)
12-05-11-25 Injector	9/13/97 0:00	?	587.8	0:00:00	#VALUE!
	9/15/97 0:00	2800	587.8	48:00:00	8912
Avg. Inj. Rate = xxx	9/30/97 0:00	2600	587.8	408:00:00	8712
m3 WPD @ xxxx kPA					

Well (Injector)	Date / Time	Tbg. Press (kPa)	Mid Point Perfs (m)	Cumlative Time	Est. BHP (kPa)
10-06-11-25 Injector	9/13/97 0:00	?	587.9	0:00:00	#VALUE!
	9/15/97 0:00	1200	587.9	48:00:00	7313
Avg. Inj. Rate =	9/30/97 0:00	600	587.9	408:00:00	6713
m3 WPD @ xxx kPA					

Well (Injector)	Date / Time	Tbg. Press (kPa)	Mid Point Perfs (m)	Cumlative Time	Est. BHP (kPa)
16-06-11-25 Injector	9/13/97 0:00	?	588.25	0:00:00	#VALUE!
	9/15/97 0:00	3300	588.25	48:00:00	9417
Avg. Inj. Rate = xx	9/30/97 0:00	3000	588.25	408:00:00	9117
m3 WPD @ xxxx kPA					

Chevron

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

December 9, 1993

Department of Energy and Mines
Petroleum Branch
Attention: Mr. John Fox
555 - 330 Graham Avenue
Winnipeg, Manitoba
R3C 4E3

Dear Sir:

RE: Virden Roselea Unit #1 1993 Subsurface Pressure Survey Results

Chevron Canada Resources, as operator of Virden Roselea Unit #1 submit the following information for the 1993 Subsurface Pressure Survey:

1. List of wells.

2. Calculated reservoir pressures for 1993 as well as results from the previous survey conducted in 1990.

3. Map displaying the survey area and 1993 pressures.

Should you have any questions please contact Eymond Toupin or Kevin Anderson at 748-1334 or at the letterhead address.

Yours truly,

Eymond Toupin

for J. E. CAUSGROVE, P. Eng.
Virden Business Unit Manager

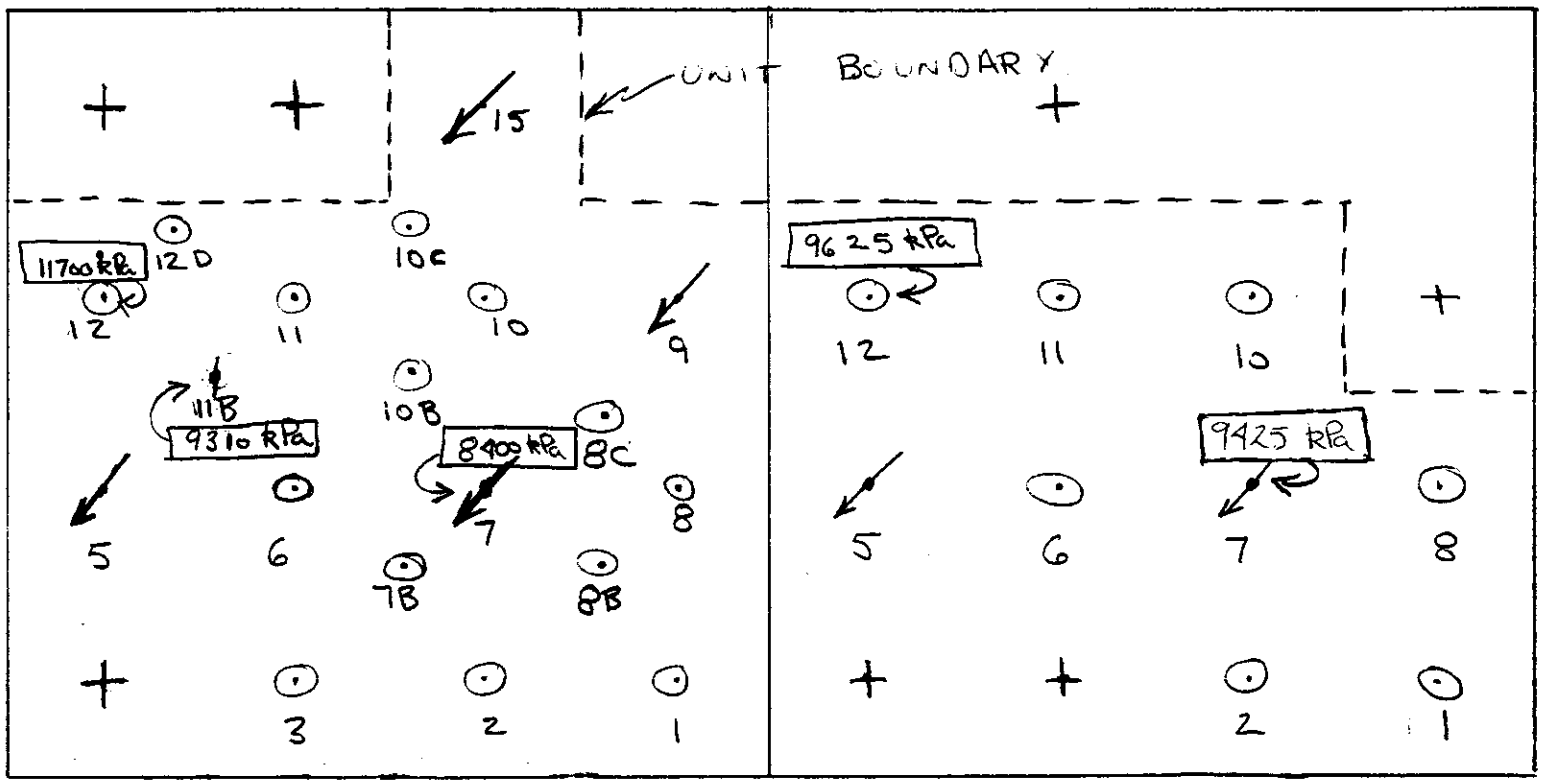
ET/tjs

1990

11-20-10-25 9200 kPa
13-21-10-25 8875 kPa
2-28-10-25 8100 kPa

Virden Roselea Unit #1

Well Location	Status of Well	BHP (kPa) 1990	1993	Date Completed
7-29-10-25	Injector	-	9425	1993-12-06
10-29-10-25	Producer	8565	-	-
12-29-10-25	Producer	-	9625	1993-12-06
7-30-10-25	Injector	-	8400	1993-12-06
11B-30-10-25	Suspended Producer	-	9390	1993-11-18
12-30-10-25	Producer	10290	11700	1993-12-03



INJECTION WELL

PRODUCER

ABANDONED WELL

SUSPENDED WELL

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

1990-10-22

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

Attention: Mr. John Fox

Dear Sir:

Re: Virden Roselea Unit #1, 2 and 3 - 1990 Triannual Subsurface Pressure Survey Results

Chevron Canada Resources, as operator of Virden Roselea #1, 2 and 3, submit the following information for the 1990 Triannual Subsurface Pressure Survey:

1) List of wells and the method of survey used (Pages 2-4).

2) Calculated reservoir pressures for 1990 as well as results from the previous survey conducted in 1987 (Pages 2-4).

3) Maps of the above units displaying the 1990 and 1987 pressures (Pages 5-7).

Should you have any questions please contact Jerry Kohut or Kevin Anderson at 748-1334 or at the letterhead address.

Yours truly,

Jerry Kohut

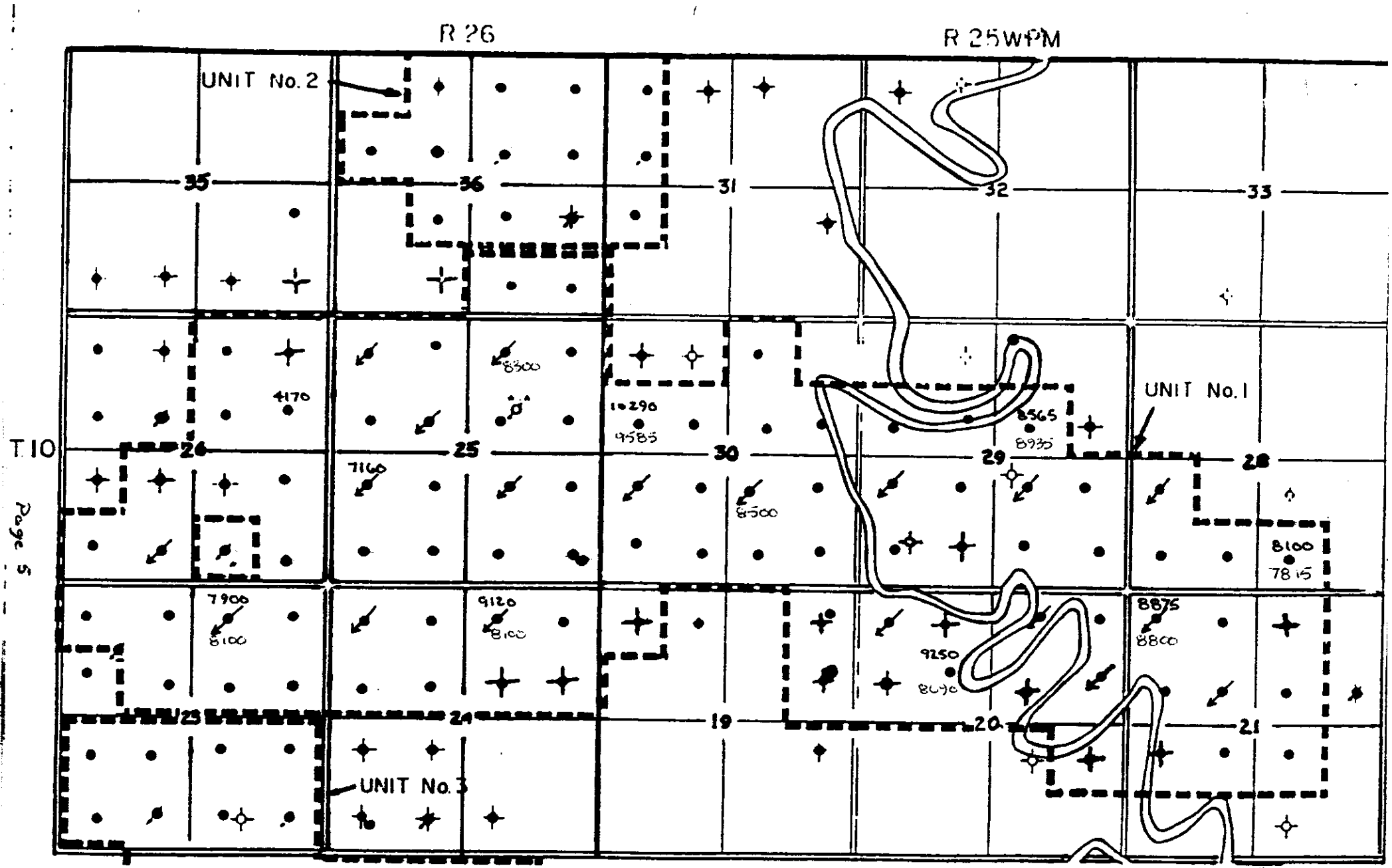
for L. A. Martinson
Area Superintendent
Virden

VIRDEN ROSELEA UNIT #1

Results of the 1990 Triannual Pressure Survey:

WELL LOCATION	TYPE OF SURVEY	DATUM DEPTH PRESSURES (kPa)		DATE COMPLETED
		1987	1990	
11-20-10-25	Sonolog	8690	9250	90-05-07
13-21-10-25WIW	Fall Off Test	8800	8875	90-08-21
02-28-10-25	Sonolog	7815	8100	90-05-07
10-29-10-25	Sonolog	8935	8565	90-05-07
07-30-10-25WIW	Fall Off Test	8500	*N/A	*N/A
12-30-10-25	Sonolog	9585	10290	90-05-07
15-23-10-26WIW	Fall Off Test	8100	7900	90-05-14
15-24-10-26WIW	Fall Off Test	8100	9120	90-07-30
05-25-10-26WIW	Fall Off Test	----	7160	90-08-20
15-25-10-26WIW	Fall Off Test	8300	*N/A	*N/A
09-26-10-26	Sonolog	-----	4170	90-05-07

*N/A - unable to complete BHP survey at these locations due to unexpected water handling limitations at the 10-25-10-26 WPM Water Plant.



Page 5

LEGEND

- UNIT BOUNDARY
- INJECTION WELL
- S.W.D WELL
- SUSPENDED WELL
- ABANDONED WELL

FIGURE 1

Scale 1" = 1/2 mile

VIRDEN ROSELEA UNIT No. 1

AS OF 1990-01

DATUM DEPTH PRESSURES

- 1990
- 1987

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

Manitoba Department of Energy & Mines
Petroleum Branch
555-330 Graham Avenue
Winnipeg. Manitoba
R3C 4E3

Attention: Mr. John Fox

Dear Sir:

Re: 1990 Subsurface Pressure Survey
Virden Roselea Unit #1
Virden Roselea Unit #2
Virden Roselea Unit #3

Chevron Canada Resources as operator of the above units submit the attached proposals for the 1990 Triannual Subsurface Pressure Surveys. Please find the following included:

1) List of wells to be surveyed
2) Type of survey to be conducted
3) Present well status

The pressure survey method will remain the same as in the past; producing wells will be shut-in and sonologed and injection wells will be monitored by pressure recorder. Survey will conclude when the changes in fluid level/pressure are less than 5% per week.

If additional information is required, please contact John Cooke or Jerry Kohut at the letterhead address.

Sincerely yours,

Jerry Kohut

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

Proposed 1990 Subsurface Pressure Survey Program:

Well	Type Of Survey	Well Status
VRU #1:		
11-20-10-25	Sonolog	Producing
13-21-10-25 WIW	Fall Off Test	Injection
02-28-10-25	Sonolog	Producing
10-29-10-25	Sonolog	Producing
07-30-10-25 WIW	Fall Off Test	Injection
12-30-10-25	Sonolog	Producing
15-23-10-26 WIW	Fall Off Test	Injection
15-24-10-26 WIW	Fall Off Test	Injection
05-25-10-26 WIW	Fall Off Test	Injection
15-25-10-26 WIW	Fall Off Test	Injection
09-26-10-26	Sonolog	Producing
VRU #2:		
11-36-10-26	Sonolog	Producing
15-36-10-26	Sonolog	Producing
12-05-11-25 WIW	Fall Off Test	Injection
10-05-11-25 WIW	Fall Off Test	Injection
03-06-11-25	Sonolog	Producing
04-08-11-25 WIW	Fall Off Test	Injection
10-01-11-26	Sonolog	Producing
12-06-11-25	Sonolog	Producing
04-07-11-25 WIW	Fall Off Test	Injection
VRU #3:		
10-07-10-25 WIW	Fall Off Test	Injection
04-18-10-25 WIW	Fall Off Test	Injection
06-01-10-26 WIW	Fall Off Test	Injection
14-02-10-26 WIW	Fall Off Test	Injection
06-10-10-26 WIW	Fall Off Test	Injection
11-11-10-26	Sonolog	Producing
05-12-10-26	Sonolog	Producing
12D-13-10-26	Sonolog	Producing
07-23-10-26	Sonolog	Producing
11-14-10-26	Sonolog	Producing