TUNDRA OIL AND GAS LTD.

2000

SOURIS HARTNEY UNIT NO. 1

PROGRESS REPORT

January 1 – December 31, 2000

APRIL, 2001

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SOURIS HARTNEY UNIT NO.1

INTRODUCTION

The Souris Hartney Unit No.1 was unitized in November, 1999 for the purposes of pressure maintenance. Water injection commenced in November, 1999 through well 6-17-6-22 WPM. Two additional injectors were added in the Unit 6-16-6-22 WPM in August, 2000 and 2-17-6-22 WPM in November, 2000. The subject Progress Report covers the operating period January 1, 2000 thru to December 31, 2000.

DISCUSSION

1. Production Performance

Oil production averaged 16 m3/day during the month of January, 2000 and declined to 14.1 m3/day during the month of December, 2000. Total oil production during 2000 was 5,411 m3. Cumulative oil production in the Unit to 2000.12.31 was 198,270 m3. Table No. 4 summarizes the 2000 production statistics of Souris Hartney Unit No.1.

Water-cut averaged 89% during January, 2000 and increased to 92% by December, 2000. The production area in the Unit is from a mature oil reservoir with partial water drive. As a result, the water-cut trend has flattened out in recent years as is evident from Figure No.2.

The 2000 production data of the individual wells is outlined in Appendix B. Figure No.2 outlines the historical production performance of the Unit.

Remaining recoverable oil reserves of 35,077 m3 are estimated from Souris Hartney Unit No.1 at 2000.12.31. Figure No.2 outlines the ultimate oil recovery prediction from the Upper Virden Pool in the Unit.

2. Reserves

Total oil-in-place in the Unit in the Upper Virden Pool is estimated at 795,251 m3. The total oil-in-place estimates for the individual wells are outlined in Table No.3.

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3. Recovery Profiles

Current oil recovery in the Unit to 2000.12.31 is estimated at 24.8% of oil-in-place. Ultimate oil recovery in the Unit is estimated at 232,410 m3 or 29.2% of oil-in-place. This estimate does not fully consider the impact of water injection over the long term that was initiated in November, 1999. It is expected that oil recovery with long term pressure maintenance may increase to 33% of oil-in-place, or incremental oil recovery of 32,000 m3. Table No.5 outlines the current and ultimate oil recoveries of the individual wells in the Unit. Appendix C outlines the individual well ultimate oil recovery predictions.

4. Injector Performance

Figures No.3, No.4, and No.5 outline the wellhead injection pressure and injection rate profiles vs the cumulative injection volume for injectors, 6-16, 2-17, and 6-17-6-22 WPM, respectively. In both injectors 6-16 and 6-17 the wellhead injection pressures have begun to flatten, whereas there is not enough injection history at injector 2-17 to base any predictions. Injection rates in all 3 injectors have been maintained at a level to stay below the formation fracture gradient to minimize out of zone injection. Tables No.6, No.7, and No.8 outline the Year 2000 water injection summary for each of injectors 6-16, 2-17, and 6-17-6-22, respectively.

Figures No.6, No.7, and No.8 outline the Hall Plots for injectors 6-16, 2-17, and 6-17-6-22, respectively. There is insufficient injection at this time in all three injectors to base any long term predictions as to what future injection trends will be.

In summary, total injection during 2000 was 26,575 m3. The average daily injection rate in the Unit during 2000 was 24.2 m3/day. Cumulative injection to 2000.12.31 was 28,005 m3. Tables No.10, No.11, and No.12 outline the historical injection pressures, rates, and volumes to 2000.12.31 for injectors 6-16, 2-17, and 6-17-6-22 WPM, respectively.

5. Voidage Replacement

Table No.9 outlines the voidage calculations for the Unit. Total voidage in the Unit during 2000 was 55,675 m3. The 2000 voidage replacement ratio in the Unit was 0.48 Rm3/m3. A cumulative voidage replacement ratio of 0.03 Rm3/m3 has been achieved in the Unit to 2000.12.31.

Pressure maintenance operations are only in their early stages in the Unit. Since there is a significant historical cumulative pool voidage of 807,075 Rm3, more injection volume will be required during Year 2001 to achieve both annual voidage replacement plus

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catch-up on the cumulative historical voidage prior to pressure maintenance operations. It is the technical opinion of Tundra that the Upper Virden Pool in the Unit has a partial water drive which does provide some pressure maintenance. However, to maximize pool oil recovery in the Unit, natural pressure support has to be supplemented with water injection. This observation is based on historical pressure surveys done in 1997. As a result, more water procurement will be required to supplement the current produced water. During Year 2001, well 12-16-6-22 will be reactivated to provide source water for the pressure maintenance scheme. The cumulative pool voidage stated previously is a worst case scenario, since there is partial acquifer support and the actual voidage replacement requirement may be somewhat less. Since it is difficult to predict what the actual required voidage replacement requirement is in the Unit, from a pressure maintenance standpoint we will initially target replacing the historical cumulative voidage to 2000.12.31. In addition to increasing water injection in the existing injectors during 2001, Tundra may also consider installing further injectors in the Unit to improve voidage replacement and oil recovery.

6. Individual Well Performance

A review of the 2000 production performance of each individual well is presented hereafter. The analysis is referenced to the wells outlined in Appendices B and C.

a. 4-16-6-22

Well 4-16 has been used historically as the SWD well in the Souris Hartney field. Since the well is completed in the Scallion formation and has down-hole casing problems, the 4-16 well will be abandoned during Year 2001. The 4-16 SWD well is presently shut-in. In terms of pressure maintenance, it is unlikely that 4-16 provided voidage replacement in the Upper Virden Pool, since the SWD was directed into the underlying Scallion formation.

b. 6-16-6-22

Suspended well 6-16 was re-entered in 2000 and converted to water injection service. Water injection operations commenced in August, 2000. The objective of using 6-16 as a water injector is to improve oil recovery in the southwest sector of Section 16 through horizontal 1-17-6-22.

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c. 12-16-6-22

The 12-16 well was shut-in during 1997, since the well had been fracture stimulated and broke into the acquifer rendering the 12-16 location uneconomic. The 12-16 well is located at the central battery and will be reactivated in Year 2001 for source water for the pressure maintenance operation.

d. 14-16-6-22 Vertical

The 14-16 well is an abandoned vertical producer.

e. 14-16-6-22 Horizontal

Oil production at the beginning of the year was 4.88 m3/day at a 0% water-cut. By year end, oil production had declined to 3.88 m3/day with water-cut unchanged at 0%. The 14-16 horizontal was drilled in the up-dip portion of the Upper Virden Pool, which probably accounts for no water production being evident to date. The decline in oil production is primarily attributable to minimal pressure maintenance being provided by the acquifer in this area of the pool. There is the possibility that pressure maintenance from injector 6-16 may manifest itself over time at the 14-16 horizontal. No corrective work is required at 14-16 horizontal during Year 2001.

f. 1-17-6-22 Horizontal

Oil production at the beginning of the year was 3.26 m3/day at a water-cut of 92%. By year end, oil production had increased to 3.89 m3/day with water-cut being unchanged. This suggests that pressure maintenance support is already manifesting itself from injector 6-16 at 1-17. More production time is required to determine the long term impact of pressure maintenance from 6-16. No corrective work is required at 1-17 horizontal during Year 2001.

g. 2-17-6-22 WIW

Oil production at the beginning of the year was 0.59 m3/day at water-cut of 90%. The 2-17 vertical well was converted to water injection service during November, 2000. The objective of selecting this location for water injection was to provide pressure maintenance in the SE sector of Section 17 in the Unit. Specifically pressure maintenance is directed at horizontal wells 1-17 and 3-17-6-22. The long term impact of this new injector will require more injection time to assess. The 2-17 is structurally down-dip from 1-17 and 3-17 horizontals. No corrective work is required at 2-17 during Year 2001.

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h. **3-17-6-22 Horizontal**

Oil production at the beginning of the year was 5.35 m3/day at a water-cut of 90%. By year end, oil production had declined to 4.29 m3/day with an increase in water-cut to 94%. The 3-17 horizontal is receiving pressure maintenance support from the 6-17 water injection well. This observation is based on the significant increase in total fluid production at 3-17 after the 6-17 injector went into service during November, 1999. More recently, the total fluid production further increased in December, 2000 which would suggest that possibly pressure maintenance support is also being supplied by injector 2-17. More injection time is required to assess the long term benefit of the 2-17 WIW on the 3-17 horizontal well. No corrective work is required at 3-17 horizontal during Year 2001.

i. **6-17-6-22 WIW**

The 6-17 well was the first well converted to water injection service in the Unit during November, 1999. As previously stated in this Progress Report, pressure support became evident in a short period of time at the 3-17 horizontal, and there also appears to be pressure support at the 15-17 horizontal from 6-17. No corrective action is required at 6-17 WIW during Year 2001.

j. 8-17-6-22

The 8-17 well was abandoned in 1999 since it had watered out after a fracture stimulation program implemented in 1997.

k. 10-17-6-22

The 10-17 well was shut-in during 1997, since it was at it's economic limit. The 10-17 well is being retained as a potential injector in the Unit if current operations indicate that expansion of pressure maintenance operations is required in the NE sector of Section 17.

l. 14-17-6-22

The 14-17 well is an abandoned oil well.

m. 15-17-6-22

Oil production at the beginning of the year was 1.87 m3/day at a water-cut of 95%. By year end, oil production had slightly increased to 2 m3/day with an increase in water-cut to 96%. A second leg was added to the 15-17 horizontal during 1998 to exploit the NW sector of Section 17. Based on the increase in total fluid production during 2000, it is

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quite likely that 15-17 is receiving some pressure maintenance support from the 6-17 WIW. No corrective work is required at 15-17 horizontal during Year 2001.

n. 16-17-6-22

The 16-17 well was shut-in during 1997, since it was at it's economic limit. The 16-17 well is being retained in the Unit as a potential WIW.

7. Pressure Surveys

There were no pressure surveys completed in the Unit during Year 2000. However, pressure surveys completed at wells 6-17, 10-17, and 16-17 during 1997 indicated that average static pool pressure had declined by 25% in the survey area. This supports the concept that the Upper Virden Pool is receiving partial pressure support from the acquifer. It is Tundra's intention to conduct pressure surveys in the future after more injection time is incurred from the existing complement of injectors.

8. Workovers

The only major workovers in the Unit during 2000 were the conversion of 6-16 and 2-17 to water injection service. Otherwise, only maintenance activities were conducted in operating the Unit.

9. Horizontal Drilling

Further horizontal drilling is not envisioned in the Unit. The primary focus will be to maximize oil recovery with the existing complement of horizontals with pressure maintenance operations.

10. Summary

The Upper Virden Pool in the Souris Hartney Unit is a mature oil reservoir with pressure maintenance recently being installed to augment partial water drive support. To date, their has been some pressure maintenance support being evident in 1-17, 3-17, and 15-17 horizontals. This has manifested itself in an increase in total fluid production with a partial arresting of the oil decline rate.

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CONCLUSIONS

The following conclusions are offered by Tundra Oil and Gas Ltd. in our efforts to maximize oil recovery from Souris Hartney Unit No.1.

1. Tundra will continue to monitor production and carry out the required remedial work to achieve the recovery predictions outlined in this Progress Report.

2. The addition of further injection wells will be timed to the performance of the existing horizontals with the pressure support being provided from the 3 current WIW.

3. Well 4-16-6-22 (SWD) will be abandoned during Year 2001.

4. Well 12-16-6-22 will be reactivated in Year 2001 to provide source water for the pressure maintenance scheme.

5. Pressure buildup surveys will be conducted in the future after there is more voidage replacement in the Unit.

6. At this time no further drilling is contemplated in the Unit.

LIST OF TABLES

TABLE NO.1
UPPER VIRDEN POOL FLUID PARAMETERS

UPPER VIRDEN POOL	
Reservoir Temperature	30 deg. C
Initial Reservoir Pressure (Pi)	6,670 kPa
Current Reservoir Pressure	4,700 kPa
Oil API	32 deg. API
Boi	1.06 Rm3/m3
Solution GOR	12.5 m3/m3
Oil Compressibility @ Pi	1.08 E-6 (1/kPa)
Water Compressibility	4.497 E-7 (m3/m3/kPa)
Oil Viscosity @ Pi	7.6 (mPa.s)
Relative Density @ Pi	0.84 fraction
Water Viscosity @ Pi	1.13 (mPa.s)
Rock Compressibility	3.70 E-7 (1/kPa)

TABLE NO.2
SOURIS HARTNEY UNIT NO.1
UNIT WELLS

TOTAL UNIT WELLS	STATUS
1-17-6-22 WPM Hz	Producing
2-17-6-22 WPM	Water Injector
3-17-6-22 WPM Hz	Producing
6-17-6-22 WPM	Water Injector
8-17-6-22 WPM	Abandoned
10-17-6-22 WPM	Shut-in
15-17-6-22 WPM Hz	Producing
16-17-6-22 WPM	Shut-in
4-16-6-22 WPM	Shut-in
6-16-6-22 WPM	Water Injector
12-16-6-22 WPM	Shut-in
14-16-6-22 WPM Hz	Producing
14-16-6-22 WPM	Abandoned
14-17-6-22 WPM	Abandoned

TABLE NO.3

SOURIS HARTNEY UNIT

SECTION 16 AND SECTION 17-6-22

OIL-IN-PLACE ESTIMATES

BASED ON CORE ANALYSIS AND ADJUSTED SW'S

Section 16-6-22	LSD	Constant	Area (hectare)	Area Factor	Net Pay (metres)	Porosity (fraction)	Sw (fraction)	(1-Sw) (fraction)	Boi (Rm3/m3)	OOIP (m3)	OOIP (STB)
	3	10,000	16.19	1	2.66	0.11	0.5	0.5	1.06	22,345	140,552
	4	10,000	16.19	1	3.08	0.11	0.5	0.5	1.06	25,873	162,744
	5	10,000	16.19	1	5.18	0.12	0.45	0.55	1.06	52,217	328,447
	6	10,000	16.19	1	4.25	0.13	0.45	0.55	1.06	47,484	298,672
	11	10,000	16.19	1	4.95	0.12	0.45	0.55	1.06	49,899	313,863
	12	10,000	16.19	1	5.44	0.12	0.45	0.55	1.06	54,838	344,933
	13	10,000	16.19	1	3.54	0.11	0.45	0.55	1.06	32,711	205,755
	14	10,000	16.19	1	3.96	0.11	0.5	0.5	1.06	32,359	203,536
Section 17-6-22	1	10,000	16.19	1	4.42	0.12	0.45	0.55	1.06	44,556	280,258
	2	10,000	16.19	1	4.15	0.12	0.45	0.55	1.06	41,834	263,138
	3	10,000	16.19	1	3.96	0.12	0.45	0.55	1.06	39,919	251,091
	6	10,000	16.19	1	4.48	0.12	0.45	0.55	1.06	45,161	284,062
	7	10,000	16.19	1	5.49	0.13	0.45	0.55	1.06	59,954	377,112
	8	10,000	16.19	1	6.1	0.15	0.45	0.55	1.06	75,839	477,030
	9	10,000	16.19	1	5.55	0.13	0.45	0.55	1.06	60,609	381,233
	10	10,000	16.19	1	3.79	0.13	0.45	0.55	1.06	40,752	256,332
	11	10,000	16.19	0.8	2.17	0.10	0.5	0.5	1.06	13,257	83,389
	14	10,000	16.19	0.8	0.7	0.08	0.55	0.45	1.06	3,002	18,884
	15	10,000	16.19	1	2.18	0.12	0.5	0.5	1.06	19,978	125,661
	16	10,000	16.19	1	3.24	0.12	0.45	0.55	1.06	32,661	205,438
Average/LSD					**3.96**	**0.12**				**39,763**	**250,107**
TOTAL										**795,251**	**5,002,130**

TABLE NO. 4

SOURIS HARTNEY UNIT

2000 PRODUCTION DATA

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
OIL (m3)	494.7	447.0	470.2	439.1	449.0	467.7	470.1	457.2	429.2	435.5	415.9	435.4
WATER (m3)	4,079.3	3,840.2	4,163.4	3,976.3	3,910.5	4479.3	4,333.3	4,226.3	4,019.2	4,062.0	3,997.1	4,852.3
TOTAL FLUID (m3)	4,574.0	4,287.2	4,633.6	4,415.4	4,359.5	4,947.0	4,803.4	4,683.5	4,448.4	4,497.5	4,413.0	5,287.7
DAILY OIL (m3/day)	16.0	15.5	15.6	14.6	14.9	15.6	15.2	14.8	14.3	14.1	13.9	14.1
WATER-CUT (%)	89	90	90	90	90	91	90	90	90	90	91	92

AVERAGE MONTHLY OIL =	450.9	m3
AVERAGE MONTHLY WATER =	4,161.6	m3
AVERAGE MONTHLY TOTAL FLUID =	4,612.5	m3
AVERAGE ANNUAL DAILY OIL =	14.9	m3/day
AVERAGE MONTHLY WATER-CUT =	90.2	%
2000 CUM. OIL PRODUCTION =	5,411.0	m3
2000 CUM. WATER PRODUCTION =	49,939.2	m3
CUM. OIL PRODUCTION TO 2000.12.31 =	198,270.0	m3

TABLE NO.5

SOURIS HARTNEY UNIT

SECTION 16 AND SECTION 17-6-22

RECOVERY PROFILES

BASED ON CORE ANALYSIS DATA WITH ADJUSTED SW'S

Section 16-6-22	LSD	Well	OOIP	Cum. Oil (2000.12.31)	Cum. Oil (2000.12.31)	Rec. Factor (2000.12.31)	Ultimate Recovery	Ultimate Recovery	Ultimate Rec. Factor	Rem. Reserves (2000.12.31)	Rem. Reserves (2000.12.31)
			(m3)	(m3)	(STB)	(%)	(m3)	(STB)	(%)	(m3)	(STB)
	3		22,345								
	4	4-16-6-22	25,873	452.7	2,847.5	1.7	453	2,847	1.7	0	0
	5		52,217								
	6	6-16-6-22	47,484	5,130.4	32,270.2	10.8	5,130	32,270	10.8	0	0
	11		49,899								
	12	12-16-6-22	54,838	32,134.1	202,123.5	58.6	32,134	202,123	58.6	0	0
	13		32,711								
	14	14-16-6-22 V + Hz	32,359	11,627.2	73,135.1	35.9	18,914	118,969	58.5	7,287	45,834
Section 17-6-22	1	1-17-6-22 Hz	44,556	3,075.2	19,343.0	6.9	13,707	182,410	30.8	10,632	66,874
	2	2-17-6-22	41,834	23,603.7	148,467.3	56.4	23,604	148,467	56.4	0	0
	3	3-17-6-22 Hz	39,919	23,499.5	147,811.9	58.9	33,300	209,457	83.4	9,801	61,645
	6	6-17-6-22	45,161	22,293.9	140,228.6	49.4	22,294	140,229	49.4	0	0
	7		59,954								
	8	8-17-6-22	75,839	32,620.4	205,182.3	43.0	32,620	205,182	43.0	0	0
	9		60,609								
	10	10-17-6-22	40,752	25,980.7	163,418.6	63.8	25,981	163,420	63.8	0	2
	11		13,257								
	14	14-17-6-22	3,002	133.0	836.6	4.4	133	837	4.4	0	0
	15	15-17-6-22 Hz	19,978	6,228.7	39,178.5	31.2	13,586	85,456	68.0	7,357	46,277
	16	16-17-6-22	32,661	10,553.4	66,380.9	32.3	10,553	66,381	32.3	0	0
Average/LSD			**39,762**	**9,867**	**62,061**		**11,620**	**73,093**		**1,754**	**11,032**
TOTAL			**795,248**	**197,333**	**1,241,224**	**24.8**	**232,409.6**	**1,558,049.4**	**29.2**	**35,077**	**220,632**
Section 16											
Average/Lsd			**39,716**	**6,168**	**38,797**		**7,079**	**44,526**		**911**	**5,729**
Total			**317,726**	**49,344**	**310,376**	**15.5**	**56,631**	**356,210**	**17.8**	**7,287**	**45,834**
Section 17											
Average/Lsd			**39,794**	**12,332**	**77,571**		**14,648**	**100,153**		**2,316**	**14,567**
Total			**477,522**	**147,989**	**930,848**	**31.0**	**175,778**	**1,201,839**	**36.8**	**27,790**	**174,798**

TABLE NO.6

SOURIS HARTNEY UNIT NO.1

2000 WATER INJECTION SUMMARY

6-16-6-22 WPM

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
TOTAL (m3)	0	0	0	0	0	0	0	853	1,528	1,553	1,572	1,934
DAILY (m3/day)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	50.9	50.1	52.4	62.4

2000 AVERAGE ANNUAL DAILY INJECTION =	20.3	m3/day
CUMULATIVE INJECTION TO 99.12.31 =	0.0	m3
TOTAL 2000 ANNUAL INJECTION =	7,440.0	m3
CUMULATIVE INJECTION TO 2000-12-31 =	7,440.0	m3

TABLE NO.7

SOURIS HARTNEY UNIT NO.1

2000 WATER INJECTION SUMMARY

WELL 2-17-6-22 WPM

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
TOTAL (m3)	0	0	0	0	0	0	0	0	0	0	62	772
DAILY (m3/day)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	24.9

2000 AVERAGE ANNUAL DAILY INJECTION =	2.2	m3/day
CUMULATIVE INJECTION TO 99.12.31 =	0.0	m3
TOTAL 2000 ANNUAL INJECTION =	834.0	m3
CUMULATIVE INJECTION TO 2000-12-31 =	834.0	m3

TABLE NO.8

SOURIS HARTNEY UNIT NO.1

2000 WATER INJECTION SUMMARY

WELL 6-17-6-22 WPM

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
TOTAL (m3)	1,510	1,413	1,517	1,459	1,496	1500	1,541	1,516	1,270	1,480	1,454	2,145
DAILY (m3/day)	48.7	50.5	48.9	48.6	48.3	50.0	49.7	48.9	42.3	47.7	48.5	69.2

2000 AVERAGE ANNUAL DAILY INJECTION =	50.1	m3/day
CUMULATIVE INJECTION TO 99.12.31 =	1,430.0	m3
TOTAL 2000 ANNUAL INJECTION =	18,301.0	m3
CUMULATIVE INJECTION TO 2000-12-31 =	19,731.0	m3

TABLE NO.9

SOURIS HARTNEY UNIT NO.1

VOIDAGE CALCULATIONS

FROM JAN.1, 2000 to DEC. 31, 2000

OIL FORMATION VOLUME FACTOR = 1.06 Rm3

MONTH	OIL PRODUCTION	WATER PRODUCTION	OIL VOIDAGE	TOTAL VOIDAGE	TOTAL INJECTION	NET VOIDAGE	VOIDAGE REPLACEMENT RATIO
	m3	m3	Rm3	Rm3	Rm3	Rm3	VRR
JAN.	494.7	4,079.3	524	4604	1,510	3,094	0.33
FEB.	447.0	3,840.2	474	4314	1,413	2,901	0.33
MARCH	470.2	4,163.4	498	4662	1,517	3,145	0.33
APRIL	439.1	3,976.3	465	4442	1,459	2,983	0.33
MAY	449.0	3,910.5	476	4386	1,496	2,890	0.34
JUNE	467.7	4,479.3	496	4975	1,500	3,475	0.30
JULY	470.1	4,333.3	498	4832	1,541	3,291	0.32
AUG.	457.2	4,226.3	485	4711	2,369	2,342	0.50
SEPT.	429.2	4,019.2	455	4474	2,798	1,676	0.63
OCT.	435.5	4,062.3	462	4524	3,033	1,491	0.67
NOV.	415.9	3,997.1	441	4438	3,088	1,350	0.70
DEC.	435.4	4,852.3	462	5314	4,851	463	0.91
TOTAL	5,411.0	49,939.5	2,802	55,675	26,575.0	29,100	0.48

CUM. POOL VOIDAGE (2000.12.31) =	807,075	Rm3
CUM. POOL INJECTION (2000.12.31) =	28,005	Rm3
CUM. NET VOIDAGE (2000.12.31) =	779,070	Rm3
CUMULATIVE VRR (2000.12.31) =	0.03	Rm3 /m3

TABLE NO. 10

SOURIS HARTNEY UNIT NO.1

WELL 6-16-6-22 INJECTION HISTORY

Year	Month	Qinj (m3/day)	Monthly Injection (m3)	Cum Injection (m3)	Pinj (psig)	Qinj (m3/day)	Pinj*Time (psig.days)	Cum. Injection (m3)	Cum.Pres*Chge Time (psig.days)
2000	Jan	0	0	0	0	0	0	0	0
	Feb	0	0	0	0	0	0	0	0
	Mar	0	0	0	0	0	0	0	0
	Apr	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0
	Aug	27.5	853	853.0	523	27.5	16,213	853	16,213
	Sept	50.9	1,528	2,381.0	460	50.9	13,800	2,381	30,013
	Oct	50.1	1,553	3,934.0	374	50.1	11,594	3,934	41,607
	Nov	52.4	1,572	5,506.0	418	52.4	12,540	5,506	54,147
	Dec	62.4	1,934	7,440.0	365	62.4	11,315	7,440	65,462

TABLE NO. 11

SOURIS HARTNEY UNIT NO.1

WELL 2-17-6-22 INJECTION HISTORY

Year	Month	Qinj (m3/day)	Monthly Injection (m3)	Cum Injection (m3)	Pinj (psig)	Qinj (m3/day)	Pinj*Time (psig.days)	Cum. Injection (m3)	Cum.Pres*Chge Time (psig.days)
2000	Jan	0	0	0.0	0	0	0	0	0
	Feb	0	0	0.0	0	0	0	0	0
	Mar	0	0	0.0	0	0	0	0	0
	Apr	0	0	0.0	0	0	0	0	0
	May	0	0	0.0	0	0	0	0	0
	June	0	0	0.0	0	0	0	0	0
	July	0	0	0.0	0	0	0	0	0
	Aug	0	0	0.0	0	0	0	0	0
	Sept	0	0	0.0	0	0	0	0	0
	Oct	0	0	0.0	0	0	0	0	0
	Nov	2.1	62	62.0	553	2.1	16,590	62	16,590
	Dec	24.9	772	834.0	712	24.9	22,072	834	38,662

TABLE NO. 12

SOURIS HARTNEY UNIT NO.1

WELL 6-17-6-22 INJECTION HISTORY

Year	Month	Qinj (m3/day)	Monthly Injection (m3)	Cum Injection (m3)	Pinj (psig)	Qinj (m3/day)	Pinj*Time (psig.days)	Cum. Injection (m3)	Cum.Pres*Chge Time (psig.days)
1999	Jan	0	0	0	0	0	0	0	0
	Feb	0	0	0	0	0	0	0	0
	Mar	0	0	0	0	0	0	0	0
	Apr	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0
	Aug	0	0	0	0	0	0	0	0
	Sept	0	0	0	0	0	0	0	0
	Oct	0	0	0	0	0	0	0	0
	Nov	10.4	311	311.0	200	10.4	6,000	311	6,000
	Dec	36.1	1,119	1,430.0	700	36.1	21,700	1,430	27,700
2000	Jan	48.7	1,510	2,940.0	942	48.7	29,202	2,940	56,902
	Feb	48.7	1,413	4,353.0	939	48.7	26,292	4,353	83,194
	Mar	48.9	1,517	5,870.0	940	48.9	29,140	5,870	112,334
	Apr	48.6	1,459	7,329.0	940	48.6	28,200	7,329	140,534
	May	48.3	1,496	8,825.0	906	48.3	28,086	8,825	168,620
	June	50	1,500	10,325.0	890	50	26,700	10,325	195,320
	July	49.7	1,541	11,866.0	890	49.7	27,590	11,866	222,910
	Aug	48.9	1,516	13,382.0	901	48.9	27,931	13,382	250,841
	Sept	42.3	1,270	14,652.0	770	42.3	23,100	14,652	273,941
	Oct	47.7	1,480	16,132.0	910	47.7	28,210	16,132	302,151
	Nov	48.5	1,454	17,586.0	895	48.5	26,850	17,586	329,001
	Dec	69.2	2,145	19,731.0	937	69.2	29,047	19,731	358,048

LIST OF FIGURES

FIGURE NO.1

SOURIS HARTNEY UNIT AREA

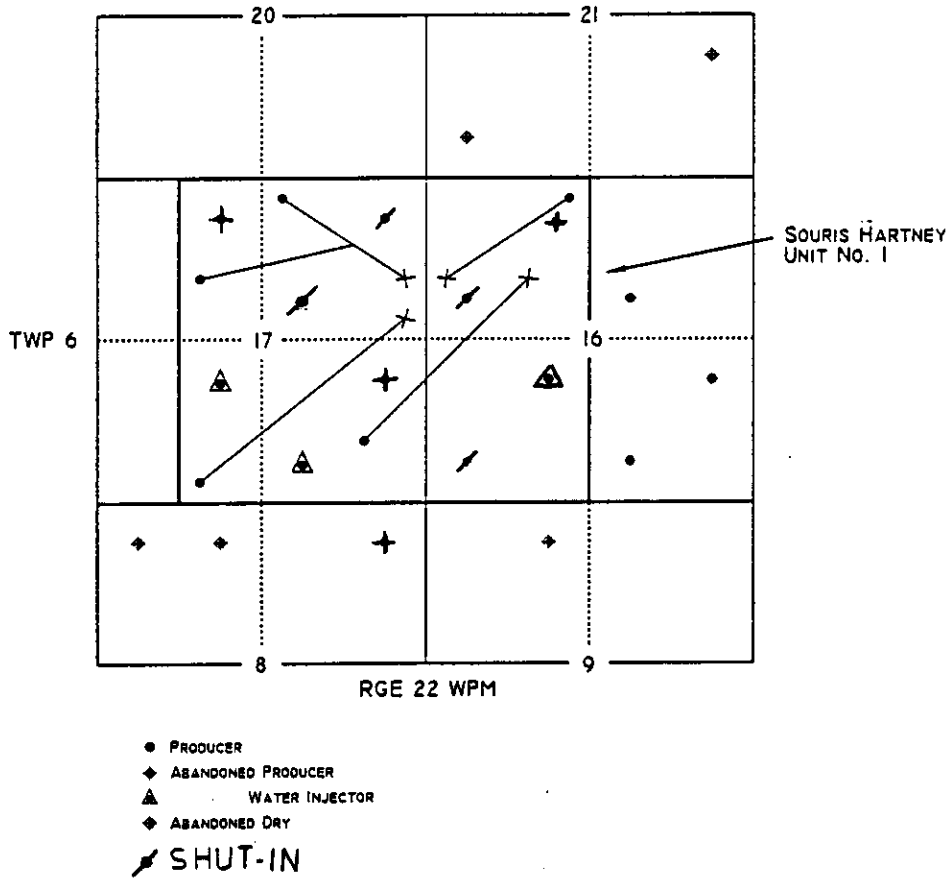
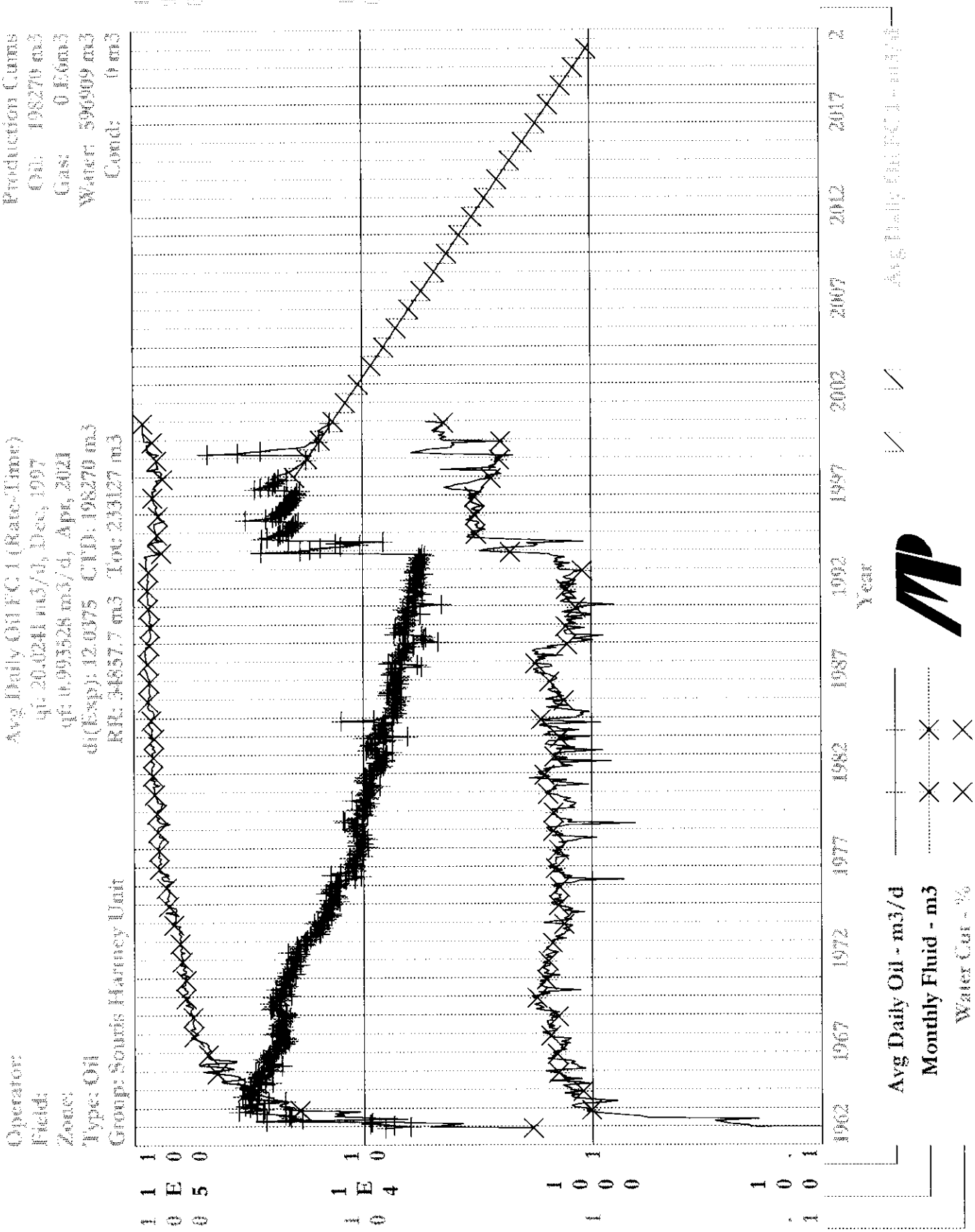


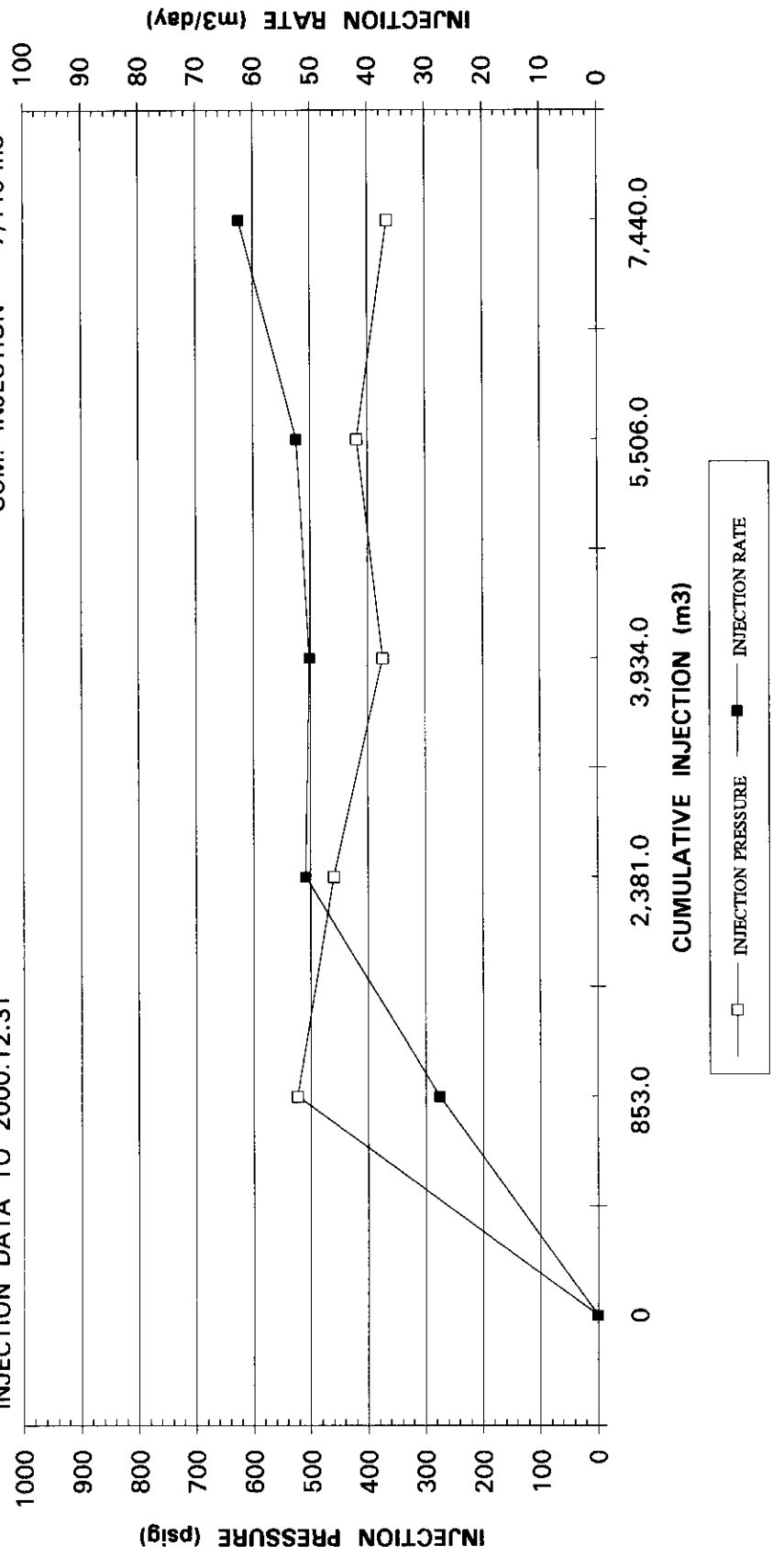
FIGURE NO.2


Avg Daily Oil - m3/d
Monthly Fluid - m3
Water Cut - %
Year
1962
1967
1972
1977
1982
1987
1992
1997
2002
2007
2012
2017
1 E 5
1 E 4
1 0 0 0
1 0 0
1 0

CINJ616.XLC

FIGURE NO.3

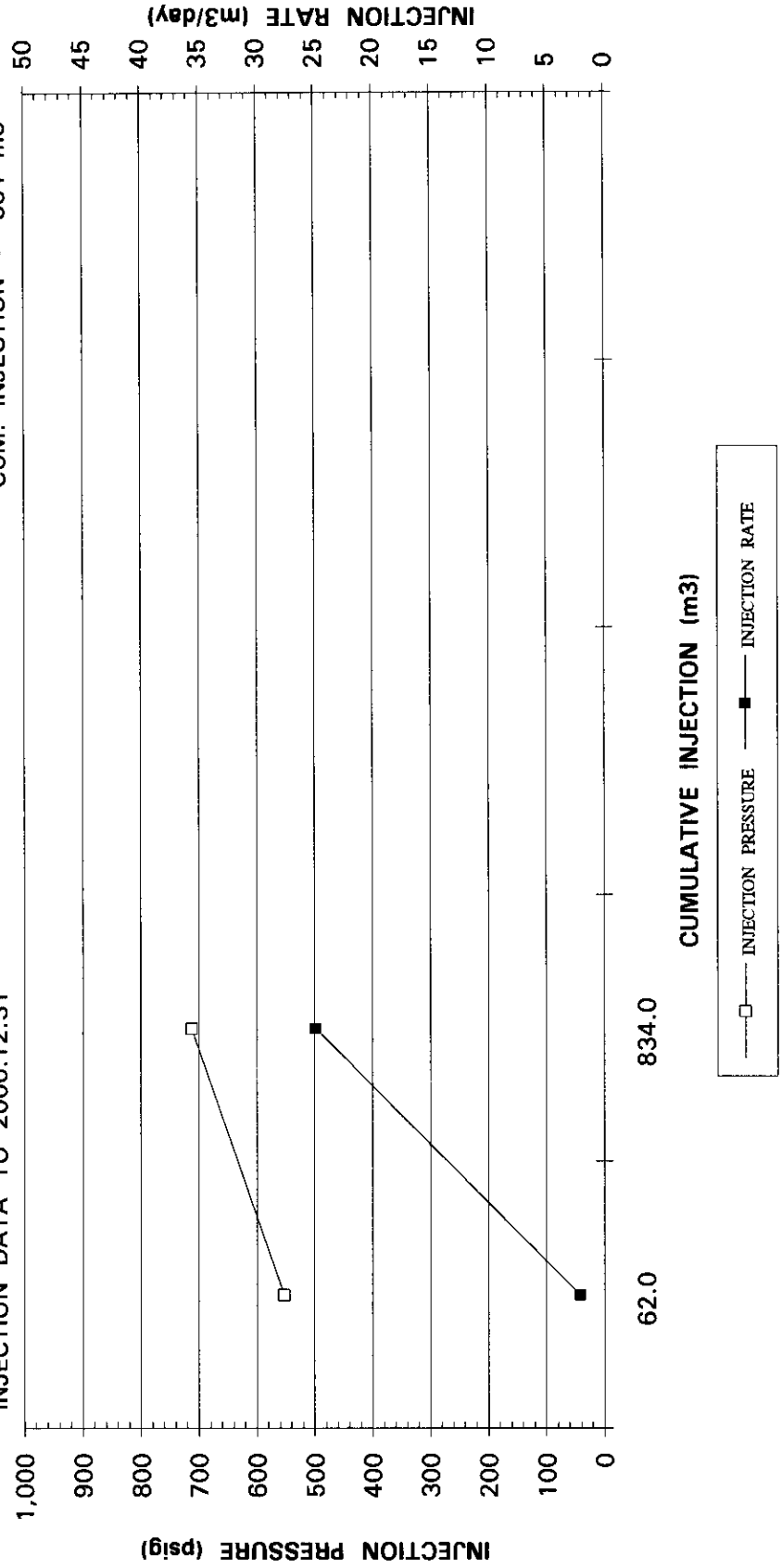
INJECTION PERFORMANCE OF WELL 6-16-6-22 WPM



CINJ217.XLC

FIGURE NO.4

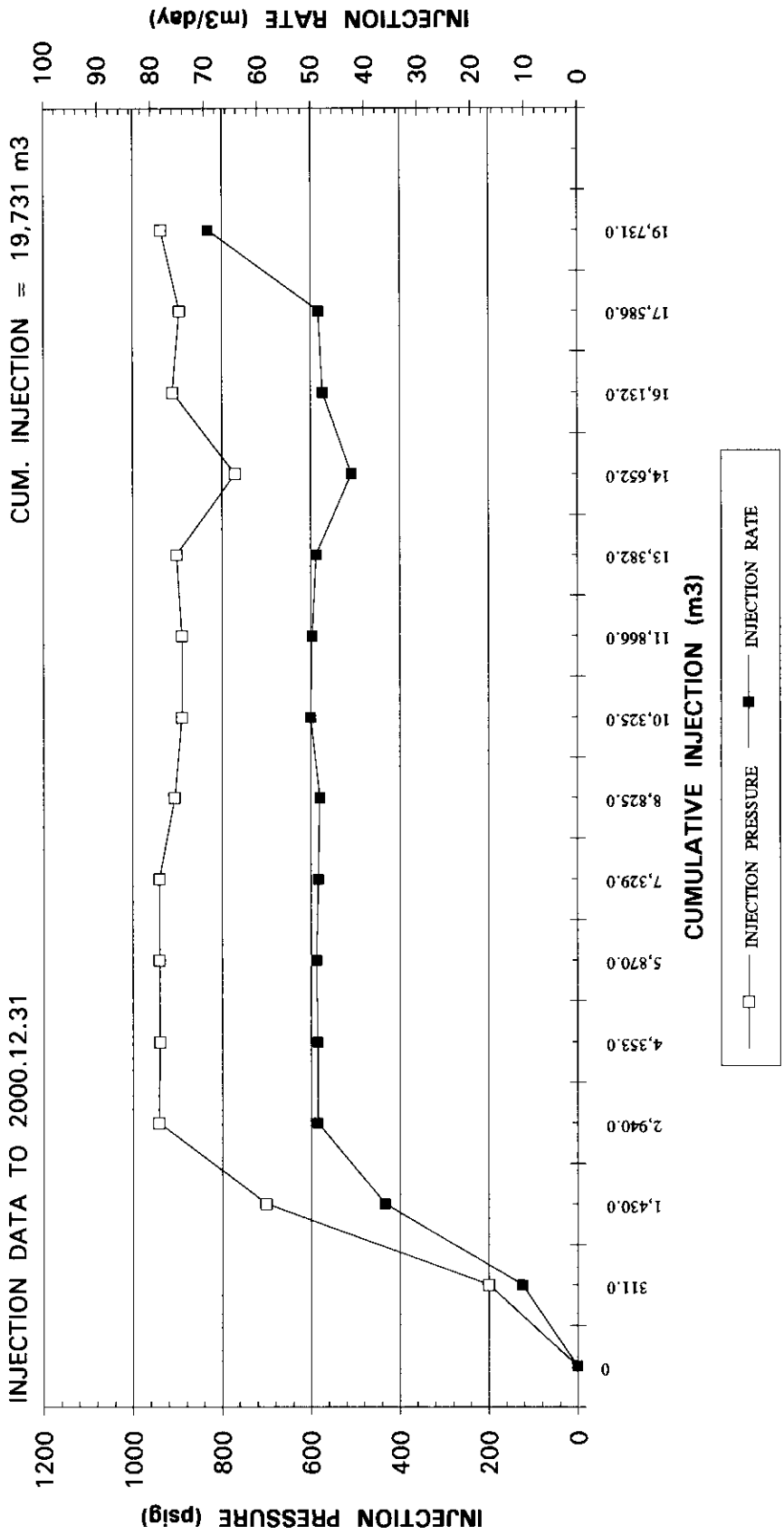
INJECTION PERFORMANCE OF WELL 2-17-6-22 WPM



CINJ617.XLC

FIGURE NO.5

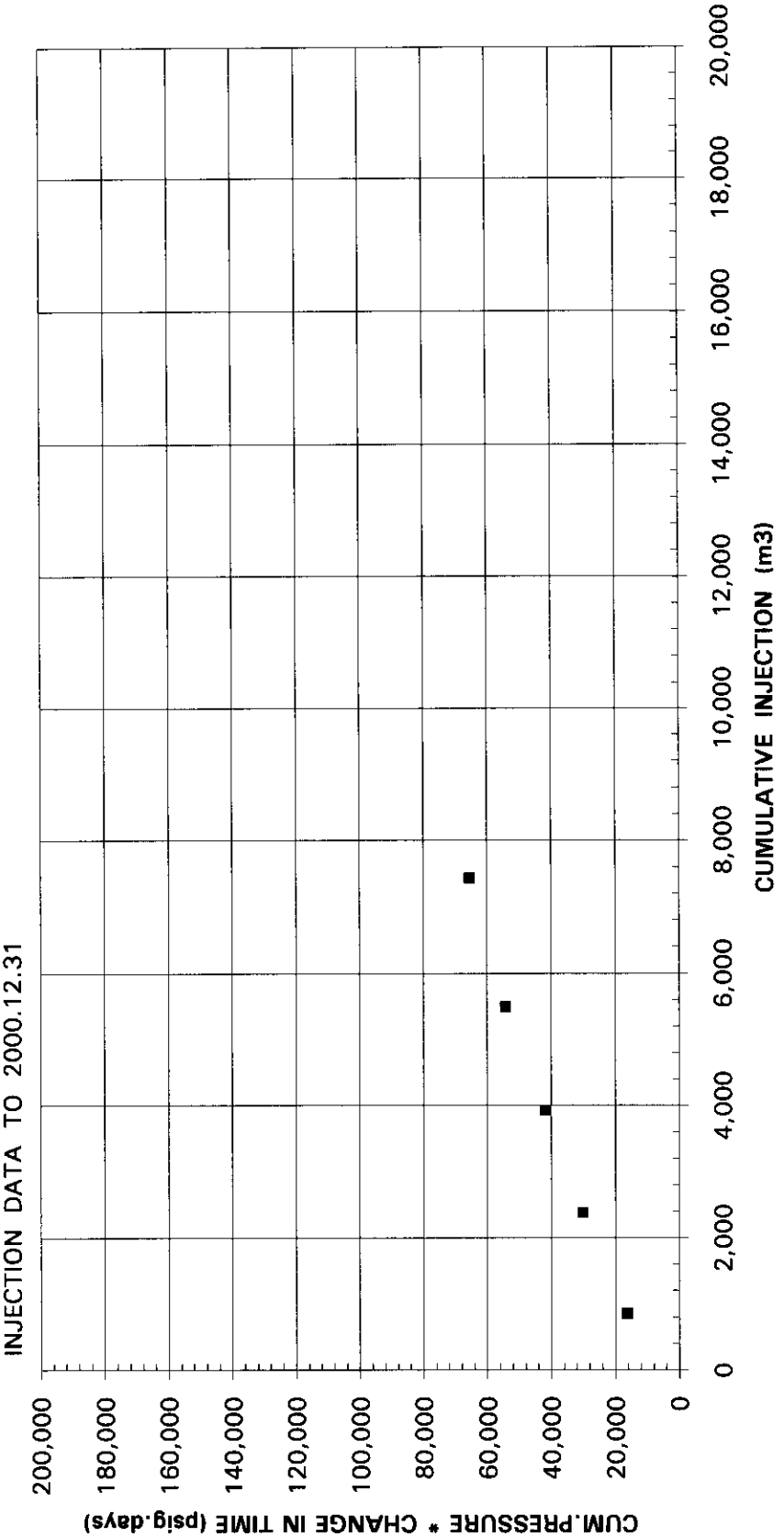
INJECTION PERFORMANCE OF WELL 6-17-6-22 WPM



CHP616.XLC

FIGURE NO.6

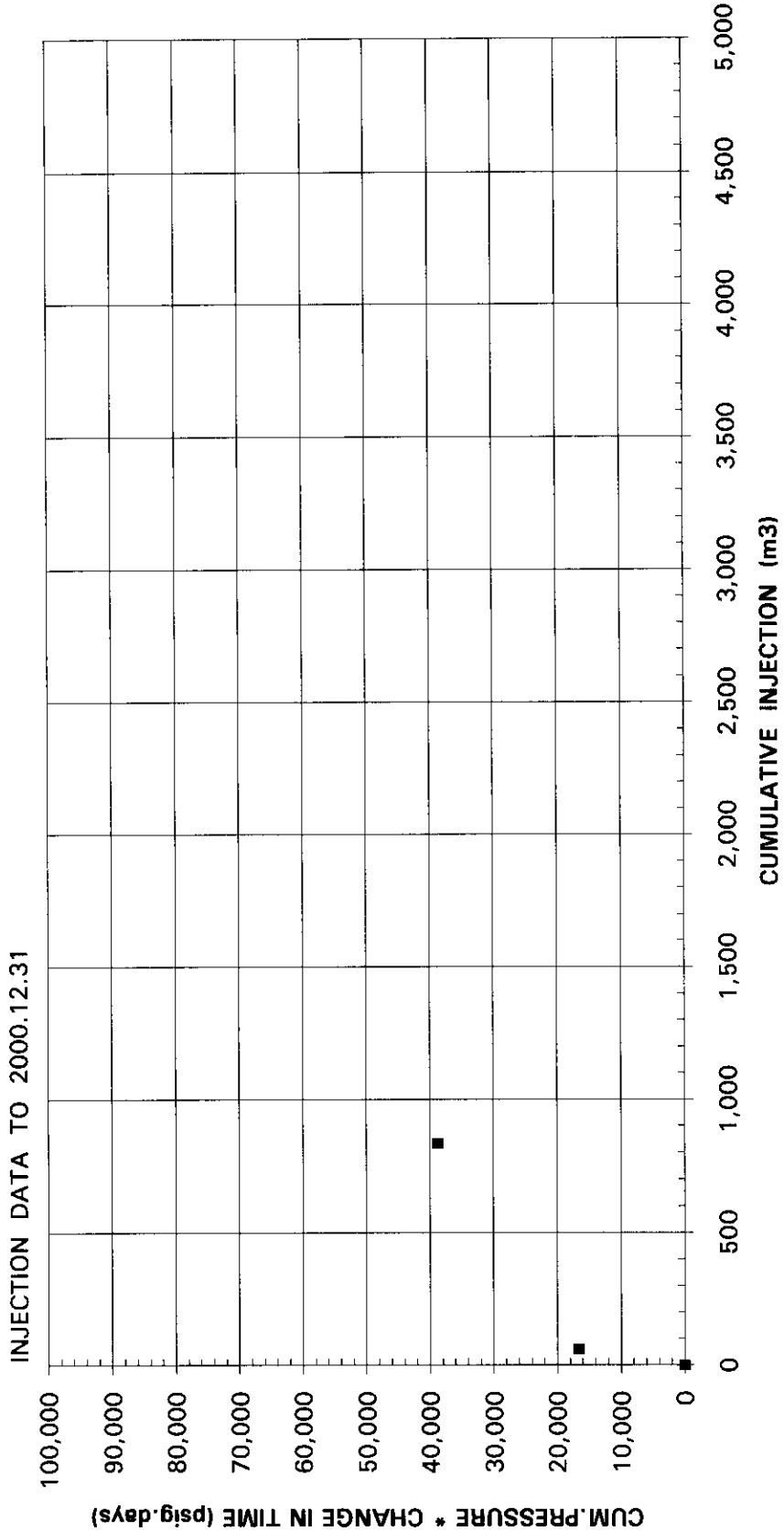
HALL PLOT INJECTION WELL 6-16-6-22 WPM



CHP217.XLC

FIGURE NO.7

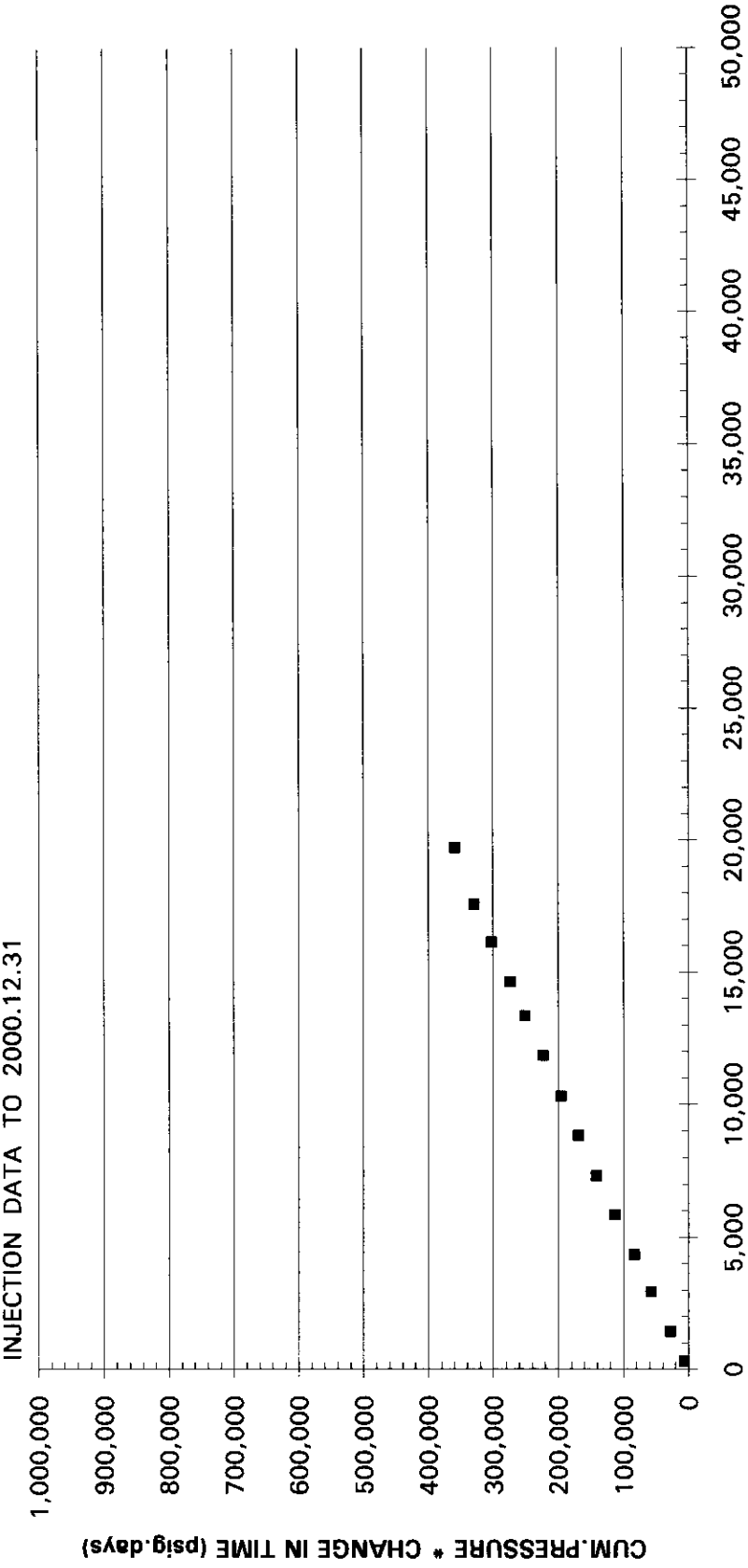
HALL PLOT INJECTION WELL 2-17-6-22 WPM



CHPP617.XLC

FIGURE NO.8

HALL PLOT INJECTION WELL 6-17-6-22 WPM



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- APPENDIX A: UNIT YEAR 2000 PRODUCTION HISTORY
- APPENDIX B: YEAR 2000 WELL PRODUCTION AND TEST DATA
- APPENDIX C: INDIVIDUAL WELL ULTIMATE RECOVERY PREDICTIONS
- APPENDIX D: INJECTION WELL 6-16-6-22 HISTORICAL PLOT AND DATA
- APPENDIX E: INJECTION WELL 2-17-6-22 HISTORICAL PLOT AND DATA
- APPENDIX F: INJECTION WELL 6-17-6-22 HISTORICAL PLOT AND DATA

APPENDIX A

UNIT YEAR 2000 PRODUCTION HISTORY

Production Report

Group	:	Souris Hartney Unit	Date	:	8/24/6 11:12:52 am
Well	:	souhsw	User	:	George
	:	000000016			
Hist.Data	:	11/62-12/00	On Prod	:	02/09
Operator	:		Status	:	Oil
Field	:		Zone	:	

Production Data from January, 2000 to December, 2000

Year	Avg Daily Oil m3/d	Monthly Oil m3	Cum Oil m3	Water Cut %	Monthly Water m3	Cum Water m3
Jan., 2000	15.9581	494.701	193353	89.1803	4079.3	551048
Feb., 2000	15.5253	447	193800	89.5695	3840.2	554889
Mar., 2000	15.6083	470.2	194270	89.8484	4163.4	559052
Apr., 2000	14.6367	439.102	194710	90.0513	3976.3	563028
May., 2000	14.8635	449.002	195159	89.6965	3910.5	566939
Jun., 2000	15.59	467.699	195626	90.542	4479.3	571418
Jul., 2000	15.1645	470.1	196096	90.2093	4333.3	575752
Aug., 2000	14.8281	457.2	196554	90.2342	4226.3	579978
Sep., 2000	14.3266	429.202	196983	90.3477	4019.2	583997
Oct., 2000	14.0484	435.501	197418	90.3136	4062.3	588059
Nov., 2000	13.8634	415.902	197834	90.5718	3997.1	592056
Dec., 2000	14.0451	435.399	198270	91.7625	4852.3	596909

APPENDIX B

YEAR 2000 WELL PRODUCTION AND TEST DATA

TUNDRA OIL AND GAS LTD.
Fluid Production Report
Year: 2000

WELL: 14160622HZ SOURIS HARTNEY 14-16-6-22 HZ

MONTH	M3 OIL / DAY	M3 OIL / MTH	M3 H2O / MTH	M3 FLUID / MONTH	% H2O	# DAYS OF PROD./MTH	M3 FLUID / DAY	PROD. TEST OIL	WTR	HRS	DATE
01	4.88	151.4	3.3	154.7	2.13	31	4.99				
02	4.74	137.1	3.1	140.2	2.21	29	4.85				
03	4.94	134.9	0.9	135.8	0.66	27	4.97	5.0	0.0	24.0	13
04	4.93	147.9	0.0	147.9	0.0	30	4.93	5.0	0.0	24.0	25
05	5.13	154.3	0.0	154.3	0.0	30	5.13	4.6	0.0	24.0	26
06	4.67	140.2	0.0	140.2	0.0	30	4.67				
07	4.31	133.7	0.0	133.7	0.0	31	4.31	3.4	0.0	24.0	30
08	3.57	109.2	0.0	109.2	0.0	31	3.57				
09	3.53	102.9	0.0	102.9	0.0	29	3.53	3.4	0.0	24.0	18
10	3.79	117.5	0.0	117.5	0.0	31	3.79	4.0	0.0	24.0	16
11	4.0	119.7	0.0	119.7	0.0	30	4.0				
12	3.88	120.2	0.0	120.2	0.0	31	3.88	3.5	0.0	24.0	13
	4.36	1569.0	7.3	1576.3	0.46	360	4.38				

TUNDRA OIL AND GAS LTD.
Fluid Production Report
Year: 2000

WELL: 01170622HZ SOURIS HARTNEY HZ 1-17-6-22 WPM

MONTH	M3 OIL / DAY	M3 OIL / MTH	M3 H2O / MTH	M3 FLUID / MONTH	% H2O	# DAYS OF PROD./MTH	M3 FLUID / DAY	PROD. TEST OIL	WTR	HRS	DATE
01	3.26	101.2	1214.2	1315.4	92.31	31	42.43	3.22	36.98	24.0	18
02	3.18	87.1	1082.7	1169.8	92.55	27	42.73				
03	4.0	123.6	1169.7	1293.3	90.44	31	41.83	3.6	34.6	24.0	22
04	3.75	112.4	1109.8	1222.2	90.8	30	40.74	4.1	34.5	24.0	19
05	3.9	118.5	1166.7	1285.2	90.78	30	42.25	3.1	35.9	24.0	21
06	3.36	100.7	1197.6	1298.3	92.24	30	43.28	3.5	35.1	24.0	16
07	3.34	103.4	1149.6	1253.0	91.75	31	40.42	3.5	35.0	24.0	23
08	3.67	112.5	1152.2	1264.7	91.1	31	41.3				
09	3.92	114.1	1104.9	1219.0	90.64	29	41.91	4.0	35.7	24.0	15
10	4.08	126.6	1179.2	1305.8	90.3	31	42.12	4.0	35.6	24.0	10
11	4.0	119.7	1144.8	1264.5	90.53	30	42.21				
12	3.89	120.5	1394.6	1515.1	92.05	31	48.87	3.6	36.4	24.0	9
	3.7	1340.3	14066.0	15406.3	91.3	362	42.51				

TUNDRA OIL AND GAS LTD.
Fluid Production Report
Year: 2000

WELL: 02170622W1 SOURIS HARTNEY 2-17-6-22 WPM

MONTH	M3 OIL / DAY	M3 OIL / MTH	M3 H2O / MTH	M3 FLUID / MONTH	% H2O	# DAYS OF PROD./MTH	M3 FLUID / DAY	PROD. TEST OIL	WTR	HRS	DATE
01	0.59	18.2	170.0	188.2	90.33	31	6.12	0.65	4.95	24.0	29
02	0.64	18.7	153.6	172.3	89.15	29	5.94				
03	0.4	11.9	167.1	179.0	93.35	30	6.03	0.4	5.2	24.0	1
04	0.37	11.0	173.7	184.7	94.04	30	6.16	0.3	5.2	24.0	23
05	0.31	9.7	178.4	188.1	94.84	31	6.07	0.3	5.4	24.0	24
06	0.34	10.2	181.1	191.3	94.67	30	6.38	0.4	5.3	24.0	21
07	0.38	11.8	173.3	185.1	93.63	31	5.97	0.4	5.2	24.0	28
08	0.42	12.6	166.8	179.4	92.98	30	6.01				
09	0.45	12.3	158.7	171.0	92.81	27	6.28	0.45	5.55	24.0	13
10	0.37	0.2	3.2	3.4	94.12	1	6.28				
11	SHUT IN										
12	SHUT IN										
	0.43	116.6	1525.9	1642.5	92.9	270	6.11				

TUNDRA OIL AND GAS LTD.
Fluid Production Report
Year: 2000

WELL: 03170622HZ SOURIS HARTNEY 3-17-6-22 HZ

MONTH	M3 OIL / DAY	M3 OIL / MTH	M3 H2O / MTH	M3 FLUID / MONTH	% H2O	# DAYS OF PROD./MTN	M3 FLUID / DAY	PROD. TEST OIL	WTR	HRS	DATE
01	5.35	165.9	1475.8	1641.7	89.89	31	52.96	5.31	47.79	24.0	15
02	5.17	149.6	1481.8	1631.4	90.83	29	56.42	5.0	48.3	24.0	23
03	4.58	141.2	1623.1	1764.3	92.0	31	57.22	4.2	48.9	24.0	16
04	4.17	121.2	1527.7	1648.9	92.65	29	56.78	4.3	49.6	24.0	21
05	4.58	135.1	1637.8	1772.9	92.38	30	60.1	5.0	57.5	24.0	28
06	5.27	158.2	1850.0	2008.2	92.12	30	66.94	5.3	53.3	24.0	12
07	4.79	148.6	1742.6	1891.2	92.14	31	61.01	4.7	53.0	24.0	18
08	4.93	150.5	1739.9	1890.4	92.04	31	61.9				
09	4.28	128.3	1602.5	1730.8	92.59	30	57.69	4.0	49.1	24.0	6
10	4.08	126.6	1700.0	1826.6	93.07	31	58.92	4.0	53.0	24.0	14
11	4.0	119.7	1704.3	1824.0	93.44	30	60.88				
12	4.29	132.9	2079.5	2212.4	93.99	31	71.37	4.1	54.2	24.0	7
	4.62	1677.8	20165.0	21842.8	92.32	364	60.21				

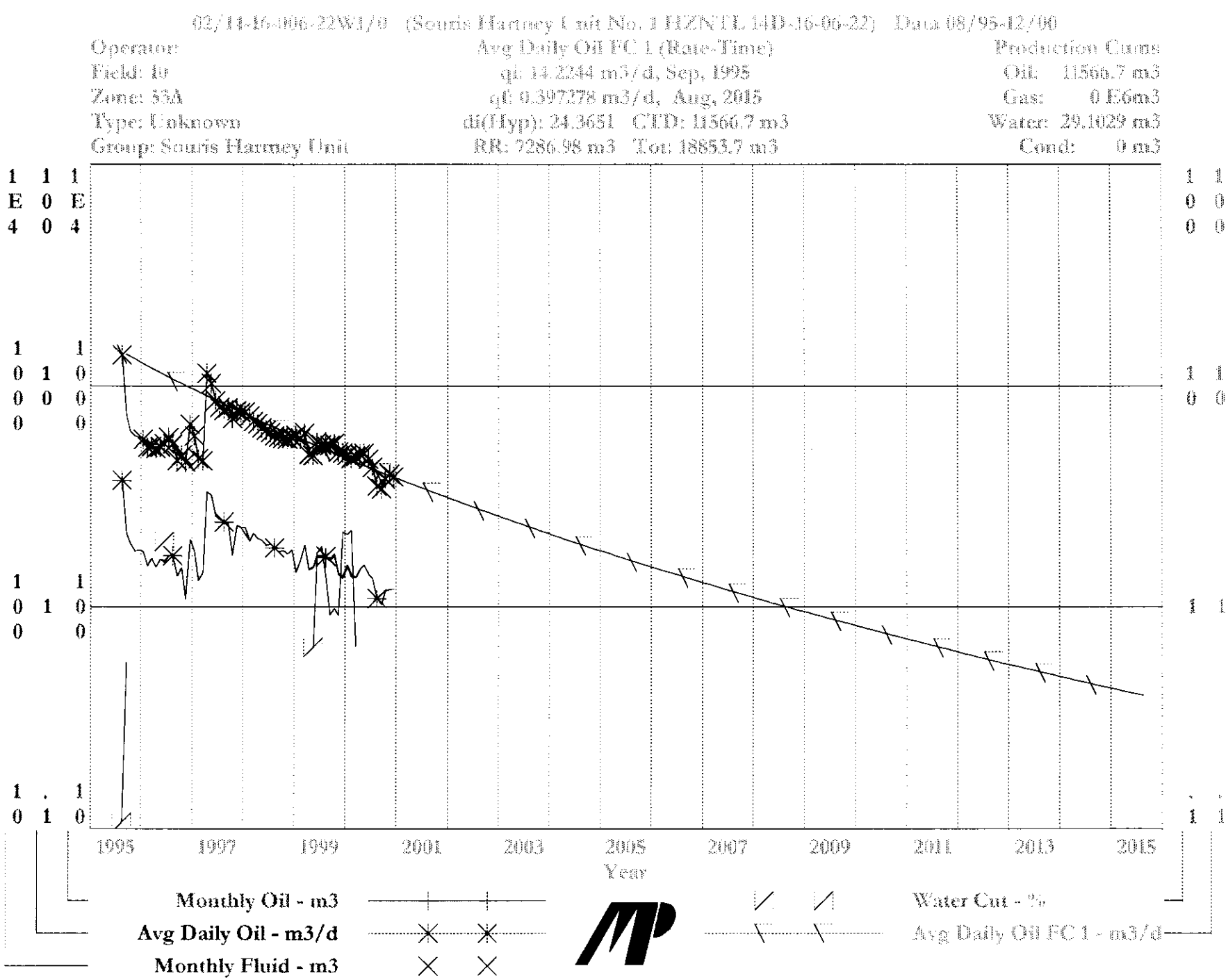
TUNDRA OIL AND GAS LTD.
Fluid Production Report
Year: 2000

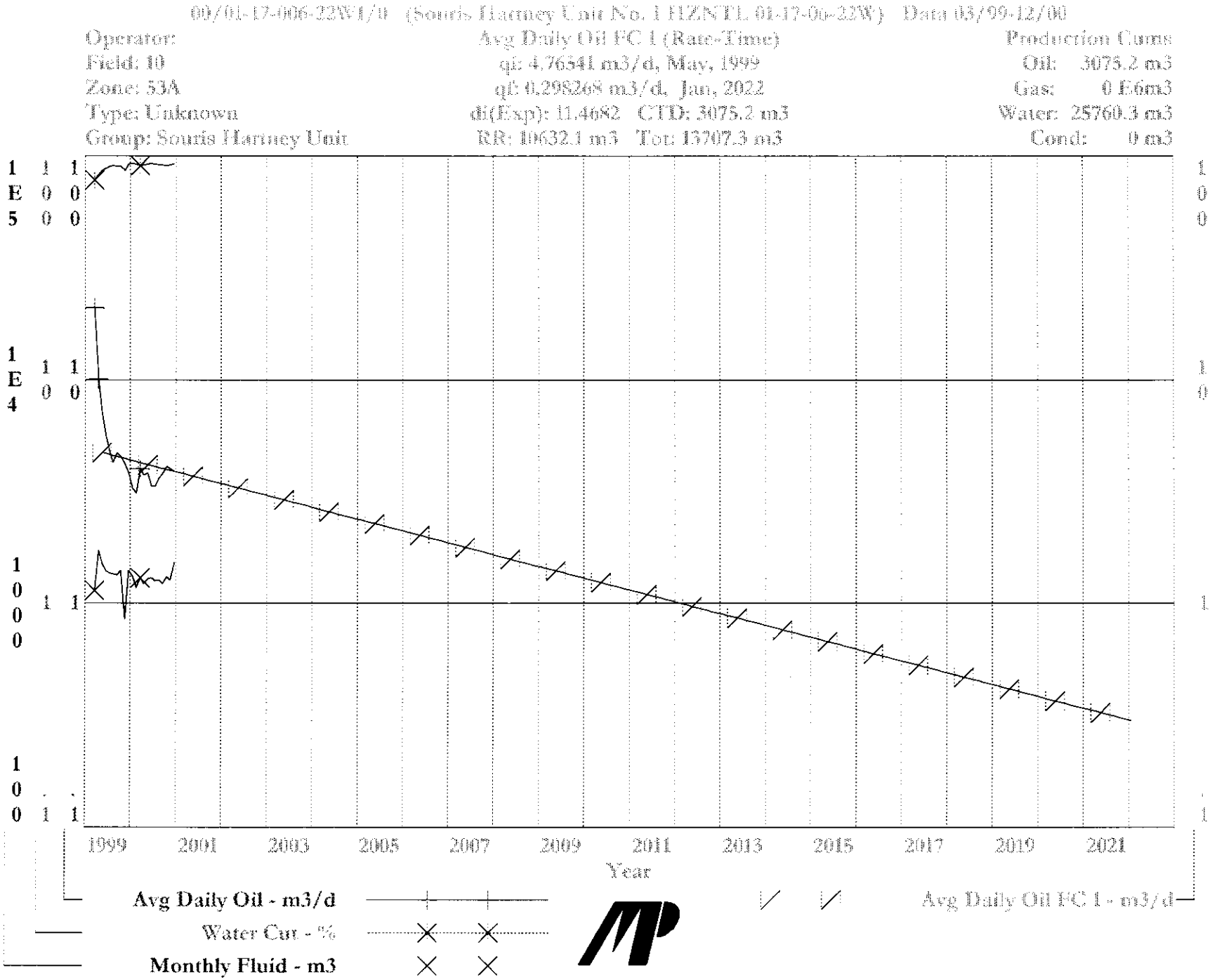
WELL: 15170622HZ SOURIS HARTNEY 15-17-6-22 HZ

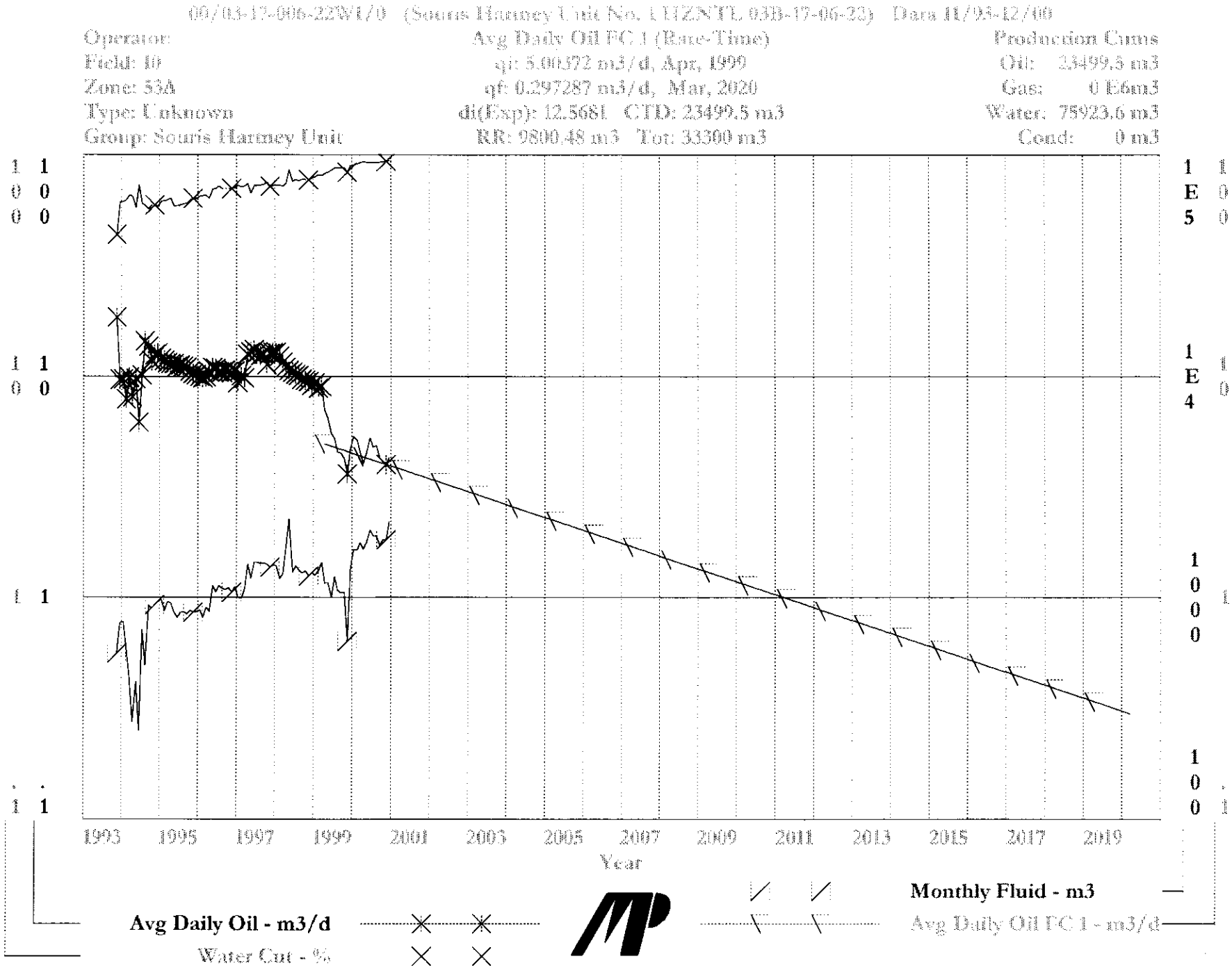
MONTH	M3 OIL / DAY	M3 OIL / MTH	M3 H2O / MTH	M3 FLUID / MONTH	% H2O	# DAYS OF PROD./MTH	M3 FLUID / DAY	PROD. TEST OIL	WTR	HRS	DATE
01	1.87	58.0	1216.0	1274.0	95.45	31	41.1	1.91	36.23	24.0	21
02	1.88	54.5	1119.0	1173.5	95.36	29	40.58	1.9	35.9	24.0	26
03	1.9	58.6	1202.6	1261.2	95.35	31	40.79	1.9	36.0	24.0	26
04	1.55	46.6	1165.1	1211.7	96.15	30	40.39	1.2	36.6	24.0	17
05	1.35	31.4	927.6	959.0	96.73	23	41.25	1.5	36.0	24.0	17
06	1.97	58.4	1250.6	1309.0	95.54	30	44.12	2.5	39.4	24.0	18
07	2.34	72.6	1267.8	1340.4	94.58	31	43.24	2.3	36.2	24.0	25
08	2.41	72.4	1167.4	1239.8	94.16	30	41.33				
09	2.39	71.6	1153.1	1224.7	94.15	30	40.88	2.3	35.7	24.0	10
10	2.09	64.6	1179.9	1244.5	94.81	31	40.2	1.9	35.7	24.0	12
11	1.9	56.8	1148.0	1204.8	95.29	30	40.22				
12	1.99	61.8	1378.2	1440.0	95.71	31	46.45	1.9	35.8	24.0	11
	1.98	707.3	14175.3	14882.6	95.25	357	41.73				

APPENDIX C

INDIVIDUAL WELL ULTIMATE RECOVERY PREDICTIONS


02/11-16-006-22W1/0 (Souris Harmney Unit No. 1 HZNTL 14D-16-06-22) Data 08/95-12/00
Operator:
Field: Ip
Zone: 53A
Type: Unknown
Group: Souris Harmney Unit
Avg Daily Oil FC 1 (Rate-Time)
qi: 14.2244 m3/d, Sep, 1995
qf: 0.397278 m3/d, Aug, 2015
di(Hyp): 24.3651 CUD: 11566.7 m3
RR: 7286.98 m3 Tot: 18853.7 m3
Production Cums
Oil: 11566.7 m3
Gas: 0 E6m3
Water: 29.1029 m3
Cond: 0 m3
1995
1997
1999
2001
2003
2005
2007
2009
2011
2013
2015
Year
Monthly Oil - m3
Avg Daily Oil - m3/d
Monthly Fluid - m3
Water Cut - %
Avg Daily Oil FC 1 - m3/d


00/01-17-006-22W1/0 (Souris Harmey Unit No. 1 HZNTL 01-17-06-22W) Data 03/99-12/00
Operator:
Field: 10
Zone: 53A
Type: Unknown
Group: Souris Harmey Unit
Avg Daily Oil FC 1 (Rate-Time)
qi: 4.76541 m3/d, May, 1999
qf: 0.298268 m3/d, Jun, 2022
di(Exp): 11.4682 CTD: 3075.2 m3
RR: 10632.1 m3 Tot: 13707.3 m3
Production Cums
Oil: 3075.2 m3
Gas: 0 E6m3
Water: 25760.3 m3
Cond: 0 m3
1E5
1E4
1000
100
1999
2001
2003
2005
2007
2009
2011
2013
2015
2017
2019
2021
Year
Avg Daily Oil - m3/d
Water Cut - %
Monthly Fluid - m3
Avg Daily Oil FC 1 - m3/d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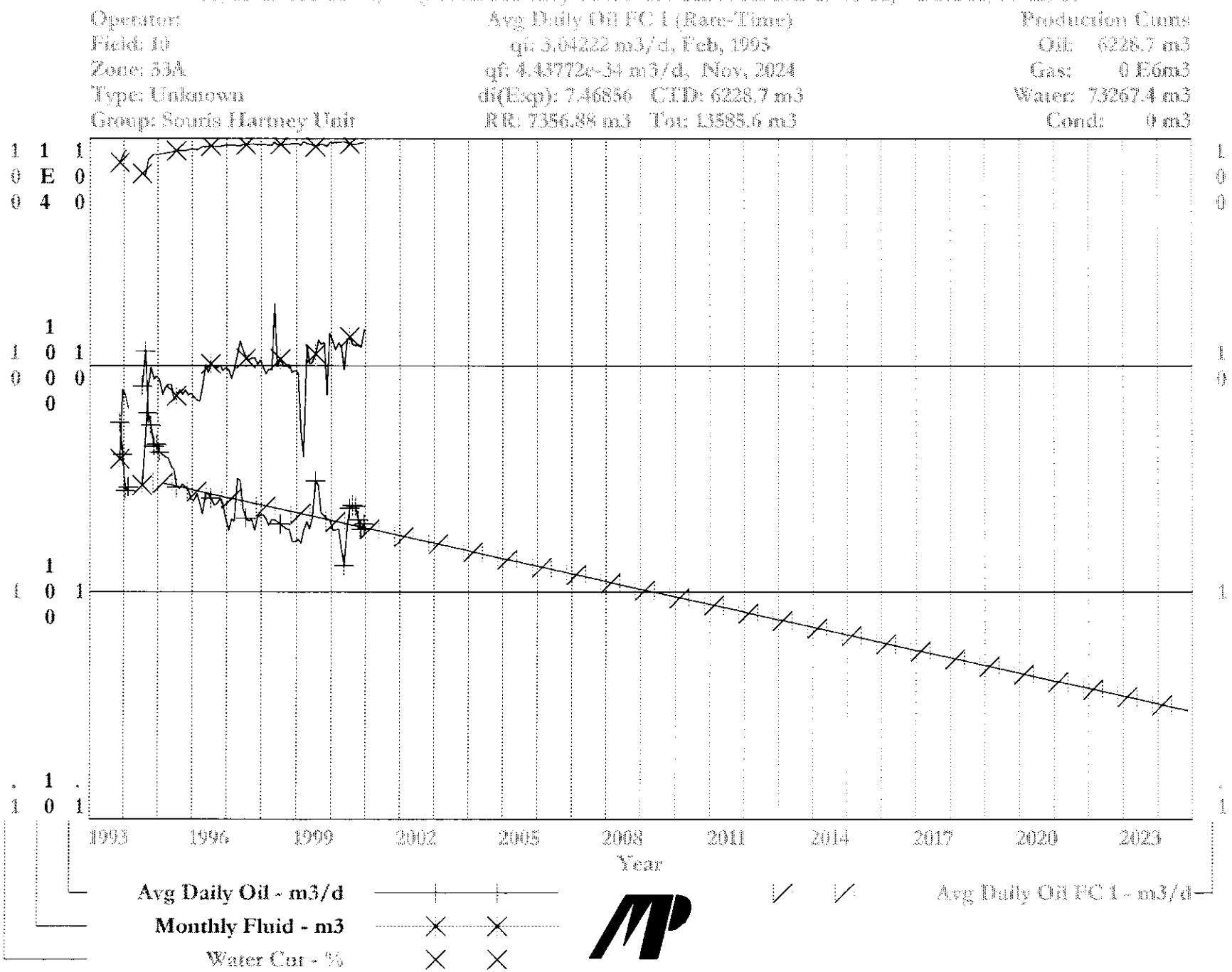
Operator:
Field: 10
Zone: 53A
Type: Unknown
Group: Souris Hanney Unit
Avg Daily Oil FC 1 (Rate-Time)
qi: 5.00372 m3/d, Apr, 1999
qf: 0.297287 m3/d, Mar, 2020
di(Exp): 12.5681 CTD: 23499.5 m3
RR: 9800.48 m3 Tot: 33300 m3
Production Cums
Oil: 23499.5 m3
Gas: 0 E6m3
Water: 75923.6 m3
Cond: 0 m3
1993
1995
1997
1999
2001
2003
2005
2007
2009
2011
2013
2015
2017
2019
Year
Avg Daily Oil - m3/d
Water Cut - %
Monthly Fluid - m3
Avg Daily Oil FC 1 - m3/d


00/15-17-006-22W1/0 (Souris Harmey Unit No. 1 HZNTL (SC-17-06-22) Data 11/93-12/00
Operator:
Field: 10
Zone: 53A
Type: Unknown
Group: Souris Harmey Unit
Avg Daily Oil FC 1 (Rate-Time)
qi: 3.04222 m3/d, Feb, 1995
qf: 4.43772e-34 m3/d, Nov, 2024
di(Exp): 7.46856 CUD: 6228.7 m3
RR: 7356.88 m3 Tot: 13585.6 m3
Production Cums
Oil: 6228.7 m3
Gas: 0 E6m3
Water: 7326.74 m3
Cond: 0 m3
1993
1996
1999
2002
2005
2008
2011
2014
2017
2020
2023
Year
Avg Daily Oil - m3/d
Monthly Fluid - m3
Water Cut - %
Avg Daily Oil FC 1 - m3/d

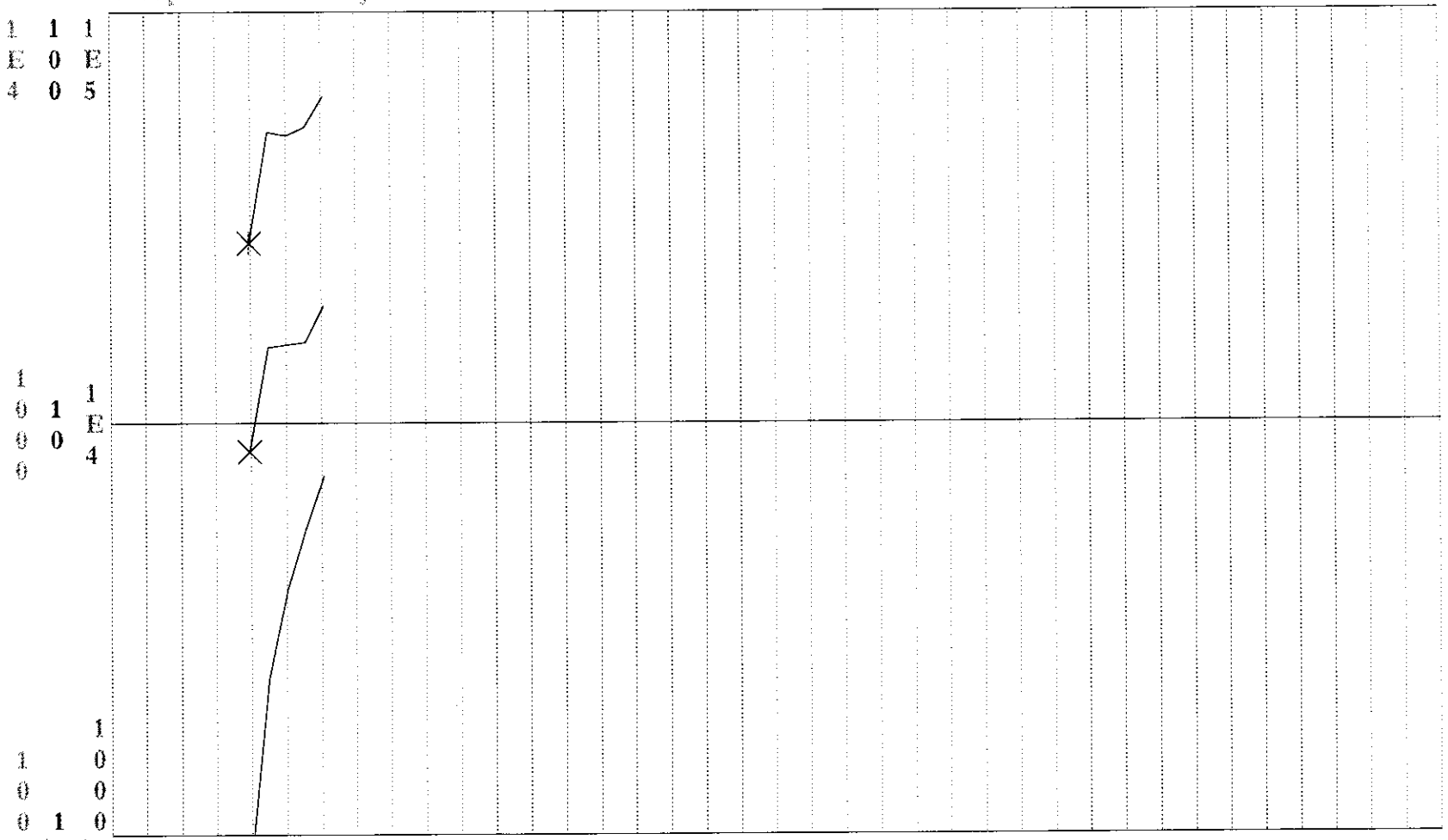
APPENDIX D

INJECTION WELL 6-16-6-22 HISTORICAL PLOT AND DATA

00/06-16-086-22W5/0 (Souris Harmey Unit No. 1 W5M 06-16-06-22W5) Data 01/63-12/00

Operator:
Field: 10
Zone: 55A
Type: Unknown
Group: Souris Harmey Unit

Production Cums
Oil: 5130.4 m3
Gas: 0.06m3
Water: 56227.5 m3
Cond: 0 m3



Production Report

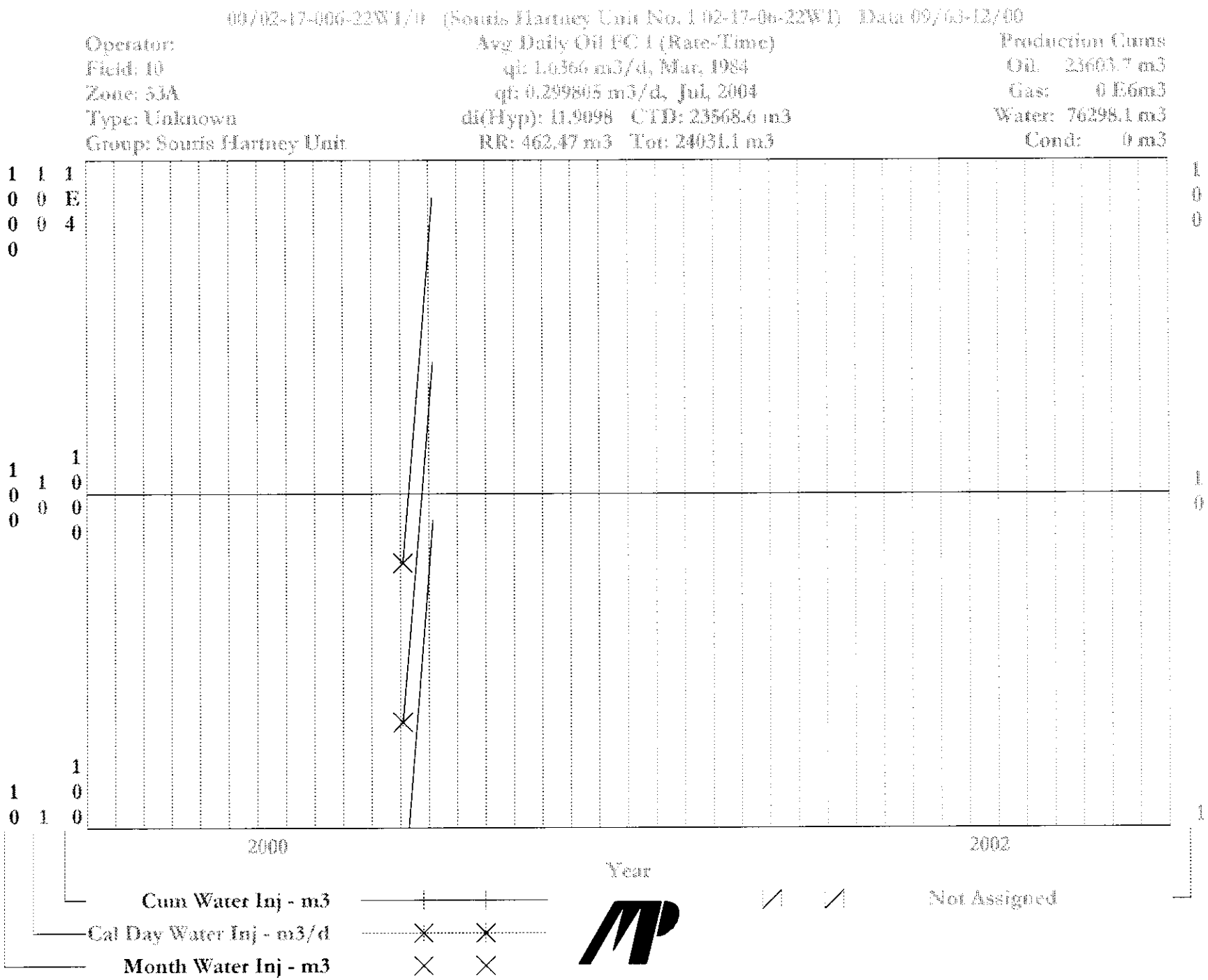
Group	:	Souris Hartney Unit	Date	:	August 24, 2006 11:27:32 am
Well	:	Souris Hartney Unit No. 1 WIW 06-16-06-22W1	User	:	George
	:	00/06-16-006-22W1/0			
Hist.Data	:	01/63-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	10	Zone	:	53A

Production Data from January, 2000 to December, 2000

Year	Cum Water Inj m3	Cal Day Water Inj m3/d	Month Water Inj m3
Jan., 2000			
Feb., 2000			
Mar., 2000			
Apr., 2000			
May., 2000			
Jun., 2000			
Jul., 2000			
Aug., 2000	853.001	27.5162	853.001
Sep., 2000	2381	50.9333	1528
Oct., 2000	3934	50.0967	1553
Nov., 2000	5506	52.4	1572
Dec., 2000	7440	62.3871	1934

APPENDIX E

INJECTION WELL 2-17-6-22 HISTORICAL PLOT AND DATA


00/02-17-006-22W4/0 (South Hartney Unit No. 1 02-17-06-22W4) Data 09/63-12/00
Operator:
Field: 10
Zone: 33A
Type: Unknown
Group: South Hartney Unit
Avg Daily Oil PC 1 (Rate-Time)
qi: 1.0366 m3/d, Mar, 1984
qf: 0.299805 m3/d, Jul, 2004
di(Hyp): 0.9098 CTD: 23668.6 m3
RR: 462.47 m3 Tot: 24031.1 m3
Production Cums
Oil: 23603.7 m3
Gas: 0 E6m3
Water: 76298.1 m3
Cond: 0 m3
1100E4
1000
1000
1000
2000
2002
Year
Cum Water Inj - m3
Cal Day Water Inj - m3/d
Month Water Inj - m3
Not Assigned

Production Report

Group	:	Souris Hartney Unit	Date	:	August 24, 2006 11:33:27 am
Well	:	Souris Hartney Unit No. 1 02-17-06-22W1	User	:	George
	:	00/02-17-006-22W1/0			
Hist.Data	:	09/63-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	10	Zone	:	53A

Production Data from January, 2000 to December, 2000

Year	Cum Water Inj m3	Cal Day Water Inj m3/d	Month Water Inj m3
Jan., 2000			
Feb., 2000			
Mar., 2000			
Apr., 2000			
May., 2000			
Jun., 2000			
Jul., 2000			
Aug., 2000			
Sep., 2000			
Oct., 2000			
Nov., 2000	62.0006	2.06669	62.0006
Dec., 2000	834.001	24.9032	772

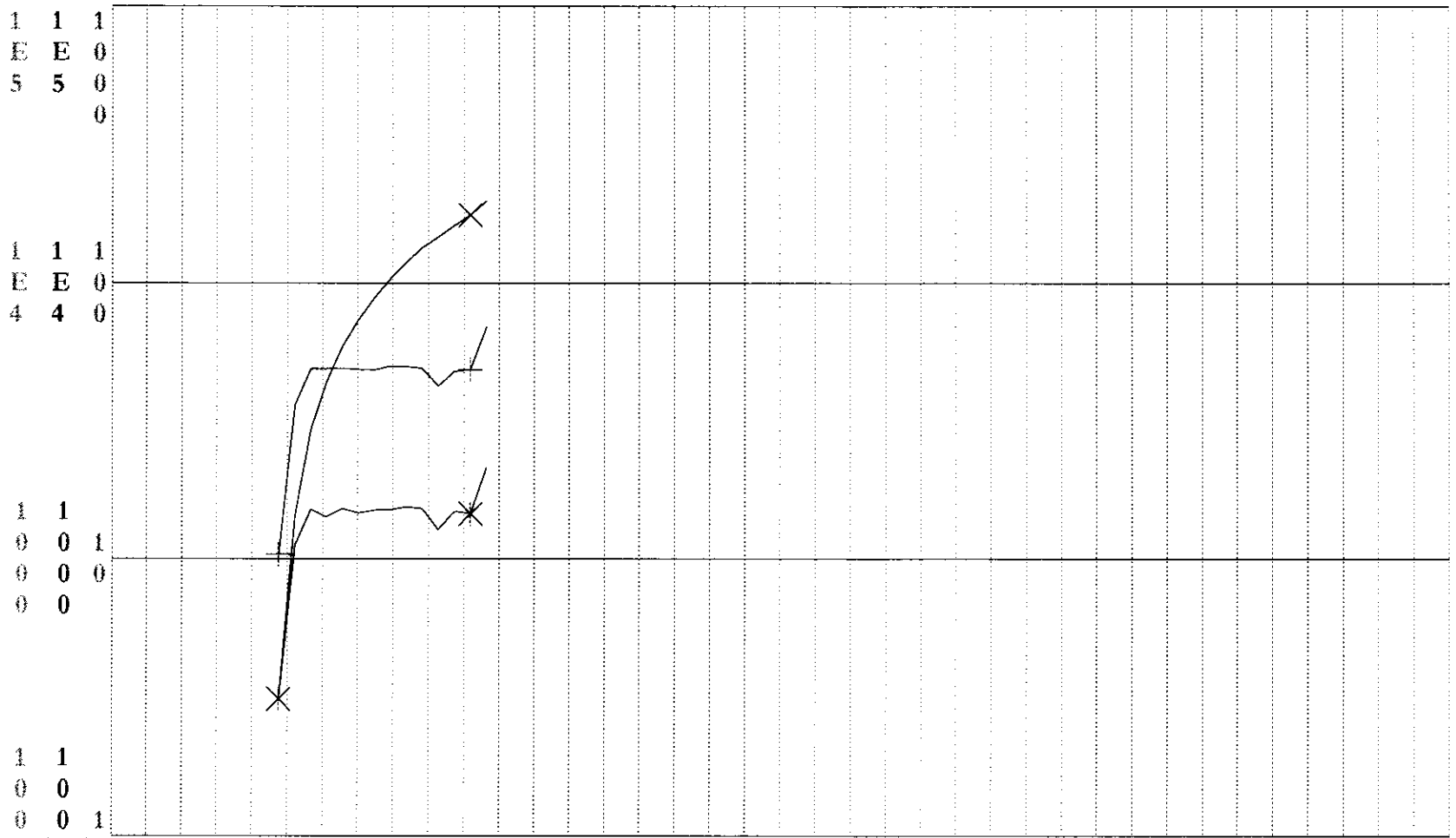
APPENDIX F

INJECTION WELL 6-17-6-22 HISTORICAL PLOT AND DATA

00/06-17-006-22W1/0 (Souris Hartney Unit No. 1 WIW 06-17-06-22W1) Data 01/03-12/00

Operator:
Field: 10
Zone: 53A
Type: Unknown
Group: Souris Hartney Unit

Production Cums
Oil: 22293.9 m3
Gas: 0 E6m3
Water: 95991.5 m3
Cond: 0 m3



Production Report

Group	:	Souris Hartney Unit	Date	:	August 24, 2006 11:22:26 am
Well	:	Souris Hartney Unit No. 1 WIW 06-17-06-22W1	User	:	George
	:	00/06-17-006-22W1/0			
Hist.Data	:	04/63-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	10	Zone	:	53A

Production Data from January, 1999 to December, 2000

Year	Cal Day Water Inj m3/d	Month Water Inj m3	Cum Water Inj m3
Jan., 1999			
Feb., 1999			
Mar., 1999			
Apr., 1999			
May., 1999			
Jun., 1999			
Jul., 1999			
Aug., 1999			
Sep., 1999			
Oct., 1999			
Nov., 1999	10.3667	311	311
Dec., 1999	36.0968	1119	1430
Jan., 2000	48.7097	1510	2940
Feb., 2000	48.7241	1413	4353
Mar., 2000	48.9355	1517	5870
Apr., 2000	48.6333	1459	7329
May., 2000	48.2581	1496	8825
Jun., 2000	50	1500	10325
Jul., 2000	49.7097	1541	11866
Aug., 2000	48.9032	1516	13382
Sep., 2000	42.3334	1270	14652
Oct., 2000	47.7419	1480	16132
Nov., 2000	48.4666	1454	17586
Dec., 2000	69.1935	2145	19731