Tundra
oil and gas ltd.

TUNDRA OIL AND GAS LTD.

Waskada #6 2000

WASKADA UNIT NO. 6

PROGRESS REPORT

January 1 – December 31, 2000

APRIL, 2001

Tundra oil and gas ltd.

TABLE OF CONTENTS

Tundra
oil and gas ltd.

TABLE OF CONTENTS (Continued)

APPENDICES

Tundra oil and gas ltd.

WASKADA UNIT NO.6

INTRODUCTION

The Waskada Unit No.6 was unitized in June, 1987 for the purposes of pressure maintenance in the Spearfish formation. The Unit has a total of 11 producing oil wells. Water injection is currently accomplished through 8 active injection wells. Table No.1 outlines the Unit wells and their current status. Figure No.1 outlines the Unit area. The current Progress Report covers the operating period of January 1, 2000 to December 31, 2000.

DISCUSSION

1. Production Performance

Total Unit oil production averaged 9 m3/day during the month of January, 2000 and declined to 7.8 m3/day by December 31, 2000. The annual decline for the aforementioned period was 13%. The average annual Unit daily oil rate during 2000 was 8.2 m3/day. Total oil production during 2000 was 2,961 m3 (down 13% from 1999). Cumulative oil production from the Unit to 2000-12-31 was 217,340 m3. Table No.2 summarizes the 2000 production statistics of the Unit. Appendix A outlines the historical Unit production data.

Unit water-cut at the beginning of 2000 was 96.2% and remained unchanged at 96.1% by December 31, 2000. Average monthly annual water-cut in the Unit during 2000 was 96.1%.

The waterflood program in the Unit is impacted by out of zone injection as a result of the initial well completion histories (hydraulically fractured into Mission Canyon MC-3). As a result of this condition, the Spearfish and Mission Canyon MC-3 formations are basically producing as one reservoir complex. The reservoir complex can be characterized as a dual porosity system with the MC-3 representing the higher quality reservoir section, and the Spearfish formation consisting of lower permeability reservoir matrix.

Tundra
oil and gas ltd.

During 1995, three wells (9-1, 1-12, and 3-12-1-26) were converted to injection service. Since the aforementioned injection wells went into service in mid August, 1995 there has been a reduction in annual oil decline with incremental oil recovery. Figure No.2 outlines the historical Unit production performance. Appendix B outlines the individual well historical production plots.

2. Reserves

The total oil-in-place in the Unit in the Spearfish formation is estimated at 1,299,000 m3 (8.2 MM STB). The oil-in-place estimates for the individual wells are outlined in Table No.3.

3. Recovery Profiles

Current oil recovery to 2000.12.31 is estimated at 16.7% of oil-in-place. Ultimate oil recovery in the Unit is estimated at 19.3% of oil-in-place. Remaining recoverable oil reserves of 34,027 m3 (214 M STB) are estimated with the existing depletion plan. This estimate (34,027/7.8/365) gives a remaining reserve life index of 12 years for the Unit. Figure No.2 predicts an ultimate oil recovery of 251,367 m3 (1.58 MM STB) from the Unit. To further improve the reliability of the Unit's ultimate oil recovery prediction, a plot of oil-cut vs cumulative oil production was prepared. Figure No.6 illustrates this method, which supports the previous rate-time estimation method. The aforementioned recovery profiles have not taken into consideration the contribution of oil recovery from the underlying MC-3 formation by the Spearfish well-bores. A preliminary estimate of 25% of the total volume of cumulative oil production to 2000-12-31 may have been contributed by the MC-3 formation. This would appreciably lower the actual recoveries from the Spearfish formation. This subject will be further addressed under voidage replacement.

Table No.4 outlines the individual well oil recovery profiles from the Spearfish wells. Appendix B outlines the individual well ultimate oil recovery predictions presented in Table No.4.

Tundra
oil and gas ltd.

4. Injector Performance

Figure No.3 outlines the injection history of the Unit. Prior to mid-1992, daily injection averaged about 560 m3/day. Injection was cutback to 370 m3/day in mid 1992 in response to the perception that voidage was being over replaced. After the cutback in injection rate, oil production began to decline at a faster rate. As a result, in late 1993, injection rates were increased to an average daily rate of 450 m3/day to arrest the production decline. Average injection during 1995 was 480 m3/day. With the addition of 3 new injection wells during 1995, average daily injection was increased to 560 m3/day. During mid 1996 injection was cutback, since 2 injectors (5-18 and 5-7) were shut-in. Injection was suspended at 5-18 and 5-7 due to no further impact by these injection wells on the offsetting producers. During 1998, two further injectors at 3-12 and 5-12-1-26 were also shut-in, since the offsetting wells had watered out, and no further waterflood benefit was being provided by these injectors. Total injection averaged 249 m3/day in the Unit during 2000. Table No.5 summarizes the water injection statistics for the 2000 operating year.

Figure No.4 outlines the impact of injection rate on the historical Unit oil production. The historical annual production decline including injection cutback was 16%/year (refer to Decline 1). After the injection rate was increased in late 1993, and after the installation of 3 new injectors during 1995 (plus several acid stimulations), the decline in oil productivity from August, 1995 to December, 2000 has averaged about 10%/year. Based on these historical trends, a positive impact has been demonstrated by increasing injection volumes and adding new injectors to reduce the oil decline rate. During 2000, Unit water-cut appears to have stabilized in the 96% range.

Appendix D outlines the historical injection profiles of each of the Unit's injection wells. Appendix E outlines the 2000 injection data for each active injector in the Unit.

Tundra
oil and gas ltd.

5. Pressure Surveys

There were no pressure surveys completed in the Unit during 2000. Pressure surveys completed in the Unit during 1994 indicated an average pore volume weighted reservoir pressure of 6,032 kPag (Spearfish formation original reservoir pressure of 9,000 kPag). By installing three new injectors during 1995, Unit voidage replacement was improved by 4% over 1994. On this basis, the average 1995 pore volume weighted pool pressure in the Spearfish formation was estimated at 6,290 kPag. Similarly, a 4% (1996), 3% (1997/1998), and 4% (1999/2000) improvement was obtained in each of the aforementioned years. On this basis, the average 2000 pore volume weighted pool pressure in the Spearfish formation is estimated at 7,500 kPag. The southern sector of the Unit had significant pressure depletion, whereas the northern sector of the Unit had either good voidage replacement, or is over pressured. As a result, the most significant benefit can be obtained by re-pressurizing the southern sector of the Unit to maximize oil recovery. A minimum period of 5 years is required before meaningful pressure survey data can be obtained from 3 injectors installed during 1995. Tundra will plan to complete one pressure buildup in the Unit in late 2001. Long shut-in periods are also required from Spearfish well-bores not fractured into the MC-3 formation to obtain reliable static reservoir pressures.

6. Voidage Replacement

The estimation of voidage replacement in the Spearfish formation presents a unique challenge owing to the dual porosity behaviour of the Spearfish / Mission Canyon reservoir complex. As previously outlined, hydraulic fracturing has essentially resulted in direct communication between the two formations. This condition has also resulted in both production from the Mission Canyon horizon through Spearfish well-bores, and injection into the MC-3 through Spearfish injection wells. A pressure survey pre-1995 at Mission Canyon well 14-7-1-25 confirms this observation (refer to 1994 Progress Report), since the current static pressure at 14-7 (MC-3) was about 1,000 kPag above the original reservoir pressure.

Tundra
oil and gas ltd.

In order to accurately determine voidage replacement in the unitized zone, the following three considerations had to be addressed:

a. Volume of Mission Canyon oil produced

b. Water production attributable to the Spearfish formation

c. Total injection volume into the Spearfish formation

The volume of oil production from the Mission Canyon that has been captured through Spearfish well-bores was estimated by reviewing the ultimate oil recovery of each Spearfish well. The industry currently recognizes that an ultimate recovery of 20 to 25% of the oil-in-place can be recovered from the Spearfish formation under 16 hectare spacing. To further support this recovery parameter, the ultimate recoveries of all Spearfish wells with no underlying oil bearing Mission Canyon sections were reviewed. The sample included wells 1-12-1-26, 10-12-1-26, 16-7-1-25, and 4-18-1-25. The average ultimate oil recovery of these wells was estimated to be 17% of oil-in-place. As a result, the upper end recovery from the Spearfish formation on 16 hectare spacing was set at 25% of oil-in-place. Oil recovery in excess of 25% of oil-in-place from a Spearfish well was considered to be oil production from the underlying Mission Canyon (MC-3) formation. Using this approach, the ultimate oil recovery predictions outlined in Table No.4 were reviewed to estimate the proportion of Mission Canyon oil captured through Spearfish well-bores. On this basis, a preliminary estimate of 25% of the total oil production from the Waskada Unit No.6 has been produced from the Mission Canyon formation. The aforementioned rationale was developed in the 1994 Waskada Unit No.6 Progress report and has been carried forward in the 1995 to 2000 Progress Reports.

Water production from the Spearfish formation was estimated by reviewing the production profiles of all the Unit wells. A distinguishing feature of the Spearfish formation is the low mobility of water in this horizon. On this basis, wells that were not fractured out of zone generally had a low water-cut (less than 30%) throughout their production history. Wells that were fractured into the underlying Mission Canyon, generally had a high water-

cut (greater than 50%) after the remedial program. Using this as a guideline, a maximum water-cut of 30% is estimated from a Spearfish well that was not fractured out of zone.

The most difficult parameter to estimate was what proportion of the total injection water was going into the Spearfish formation. The estimation procedure recognized the low mobility of the Spearfish formation in accepting water, the low reservoir pressure in the Spearfish formation determined from historical pressure surveys after water injection commenced in 1987, the prevailing low permeability of the unitized zone, and using the pore volume weighted reservoir pressure concept as a history matching variable. This was an iterative procedure of randomly selecting an initial injection volume and adjusting the injection volume until a match was achieved with the prevailing average static pressure estimated (from historical pressure surveys) in the Spearfish formation from 1987 to 1994 inclusive. On this basis, at best 30% of the total injection volume is presently going into the Spearfish formation. This is not surprising, since the Mission Canyon has a higher capacity for accepting water and this condition has been further enhanced by using Spearfish injectors that are fractured into the Mission Canyon.

A voidage replacement ratio (VRR) of 1.1 Rm3/m3 was achieved in the Unit during 2000. A cumulative VRR of 0.84 Rm3/m3 is estimated to 2000-12-31. The low cumulative VRR agrees with the low current reservoir pressures measured historically in the Unit, although a high cumulative injection volume of 2,226,444 m3 (to 2000-12-31) has been injected into Spearfish injectors. If more water was entering the Spearfish formation, based on the aforementioned cumulative injection volume, then there would be a higher reservoir pressure with a significantly higher cumulative VRR.

Figure No.7 provides an estimate of the total injection volume required to achieve the ultimate oil recovery forecasted from the Unit. Based on current performance, an incremental 1.1 MM m3 of water must still be injected to achieve an ultimate oil recovery of 251,000 m3. This will take another 12 years if injection volumes average at the current rate of 250 m3/day. This analysis confirms that the addition of 3 new injectors during 1995 was required to accelerate oil recovery from the Spearfish formation.

Tundra
oil and gas ltd.

In summary, 66% (2.2 MM m3) of the ultimate water injection requirement (3.35 MM m3) has provided about 86% (217,340 m3) of the ultimate recoverable oil (251,367 m3) to date. To recover the remaining 14% (34,027 m3) of the recoverable oil from the Unit will require on a proportional basis a significantly larger remaining water injection volume of about 1.1 MM m3.

7. Waterflood Optimization Program

a. Objectives

The objectives of the Unit waterflood optimization program initiated in late 1993 were three fold: (1) improve voidage replacement, (2) improve pressure maintenance in the southern sector of the Unit, and (3) maximize oil recovery from the Spearfish formation. These objectives have been implemented by increasing water injection in late, 1993, by installing 3 new injectors during 1995, and implementing selective acid stimulation programs. Figure No.5 outlines the new inverted 5-spot waterflood patterns that predominate in the southern sector of the Unit.

b. Waterflood Performance

The overall benefit by increasing water injection in the Unit, adding three injectors, and selective acid stimulation of several oil wells has resulted in an increase in the forecasted ultimate oil recovery. In late 1993 and 1994 (commencement of waterflood optimization), ultimate oil recovery was forecasted at 18.3% of oil-in-place. By 2000-12-31, ultimate oil recovery from the Spearfish formation is forecasted at 19.3% of oil-in-place. This represents incremental oil recovery of 1% of oil-in-place or 13,000 m3 (82,000 STB). This incremental oil recovery has been realized by further waterflood sweep of bypassed oil reserves in the Unit.

Tundra
oil and gas ltd.

c. Voidage Replacement Southern Sector of Unit

Table No.10 outlines the voidage replacement in the southern sector of the Unit. The southern sector of the Unit includes wells 7-1, 8-1, 9-1, 10-1, 15-1, 16-1, 1-12, 2-12, 3-12-1-26, 12-6, 13-6, and 4-7-1-25. Cumulative voidage replacement ratio (Cum. VRR) in this area of the Unit is estimated at 0.49 Rm3/m3 at 2000-12-31. The lower Cum. VRR is supported by the low historical reservoir pressures that have been measured in this area of the Unit. As a result, the addition of three new injectors at 9-1, 1-12, and 3-12-1-26 should progressively over time raise the reservoir pressure and improve waterflood recovery in this area of the Unit. Injectors 9-1 and 1-12 were selected on the basis that these wells were not fractured out of zone, and should primarily deliver injection water into the Spearfish formation. Injector 3-12 was abandoned in 2000, since the offsetting producers impacted by this injection well have watered out.

d. Incremental Oil Recovery

As previously stated, incremental oil recovery of 1% of oil-in-place or 13,000 m3 is forecasted from the waterflood optimization program which was initiated in late, 1993. Incremental oil recovery has been observed at wells 8-1, 10-1, 16-1, 2-12, 6-12, and 8-12-1-26 as a result of the three new injectors installed during 1995 (refer to Appendix B).

e. Water Injection Schedule

Table No.9 outlines the 2001 water injection schedule recommended in the Unit in order to achieve a Cum. VRR = 1.0 in an economic time frame. Total average annual daily injection of 250 m3/day is recommended in the Unit during 2001.

Tundra
oil and gas ltd.

8. Individual Well Performance

A review of the production performance of each individual well is presented here-after. The analysis is referenced to the wells outlined in Appendix B and Appendix C.

a. 12-6-1-25

The 12-6 well was abandoned in 1998.

b. 12-7-1-25

The 12-7 well produces at essentially a water-cut of 100% and is used for make-up injection water in the Unit waterflood.

c. 14-7-1-25

Oil production at the beginning of 2000 was 0.52 m3/day at a water-cut of 98%. By December, 2000 oil production and water-cut were unchanged at 0.52 m3/day and 98%, respectively. No further work is planned at 14-7 during 2001.

d. 16-7-1-25

Oil production at the beginning of 2000 was 0.99 m3/day at a water-cut of 43%. By December, 2000 oil production was relatively unchanged at 0.93 m3/day with water-cut at 46%. Since oil production has been relatively flat during the last year at 16-7, no corrective work is planned at 16-7 during the balance of 2001. However, the 16-7 well has a relatively low total fluid rate and may benefit from re-fracturing. Further evaluation is required before going ahead with this type of workover.

Tundra
oil and gas ltd.

e. 3-18-1-25

Oil production at the beginning of 2000 was 0.44 m3/day at a water-cut of 98%. By December, 2000 oil production had increased to 0.52 m3/day with a decline in water-cut to 97%. The increase in oil productivity may partially be due to a reduction in water injection at injector 13-7, which impacts well 3-18. This observation is supported by the decline in total fluid production at 3-18 after water injection was cutback at 13-7. The higher water injection may have only been beneficial up to a certain level, and providing primarily water production above this threshold level. Since total fluid and oil production have remained relatively flat during 2000, no corrective work is planned at 3-18 during 2001.

f. 8-1-1-26

Oil production at the beginning of 2000 was 0.69 m3/day at a water-cut of 96.6%. By December, 2000 oil production had declined slightly to 0.49 m3/day with an increase in water-cut to 98%. The increase in water-cut is attributable to water breakthrough from injector 9-1. Total fluid production during 2000 has remained relatively flat at 8-1. No corrective action is planned at 8-1 during 2001.

g. 10-1-1-26

Oil production at the beginning of 2000 was 0.86 m3/day at a water-cut of 94%. By December, 2000 oil production had declined to 0.75 m3/day with a small reduction in water-cut to 93%. Since injector 9-1 went into service in 1995, the total fluid production has increased at 10-1. As a result, incremental oil recovery has been realized at the 10-1 location. Total fluid production had declined mid year 2000, which is attributable to injector 9-1 being shut-in. The reactivation of injector 9-1 during October, 2000 should increase total fluid production at 10-1. Since oil production has been relatively flat during 2000, no corrective action is planned at 10-1 during 2001.

Tundra
oil and gas ltd.

h. 16-1-1-26

Oil production at the beginning of 2000 was 0.98 m3/day at a water-cut of 82%. By December, 2000 oil production was relatively unchanged at 0.9 m3/day with a small decline in water-cut to 81%. Total fluid production at 16-1 began to increase after the installation of the 9-1 injector in 1995. More recently cutbacks in injection volumes at 9-1 and 15-1 have resulted in the total fluid production declining at 16-1. This condition will be corrected during 2001. Since oil production has been relatively flat at 16-1 during 2000, no corrective work is planned at 16-1 during 2001.

i. 6-12-1-26

Oil production at the beginning of 2000 averaged 0.69 m3/day at a water-cut of 97%. By December, 2000 oil production averaged 0.5 m3/day at a water-cut of 97%.The installation of an injector at 3-12 during 1995 has at best maintained a flat fluid production profile at 6-12. As previously stated, injector 3-12 was abandoned during 2000, since it was providing minimal benefit to the Unit waterflood. No corrective work is planned at 6-12 during 2001.

j. 8-12-1-26

Oil production during January, 2000 averaged 0.34 m3/day at a water-cut of 40%. By December, 2000 oil production averaged 0.3 m3/day at a water-cut of 26%. The 8-12 well has historically not been impacted by any injector in the Unit. The reservoir geology in the area has quite likely rendered this location ineffective for waterflood operations. The 8-12 well is solely a Spearfish producer and has historically had a low total fluid rate. On this basis the 8-12 well may benefit from a re-fracturing treatment to increase total fluid production and as a result oil production. The 8-12 well will be considered for further hydraulic fracturing during 8-12.

Tundra
oil and gas ltd.

k. 9-12-1-26

Oil production during January, 2000 averaged 0.71 m3/day at a water-cut of 91%. By December, 2000 oil production averaged 0.69 m3/day at a water-cut of 88%. The decline in oil production after 1998 is attributed to interference from the 12-7 well which has caused a significant decline in total fluid production at 9-12. This location has received good waterflood support from the offsetting injection wells. Since well 12-7 is required for make-up water in the Unit, no further action will be taken at this time at 9-12.

l. 10-12-1-26

Oil production during January, 2000 averaged 2.5 m3/day of oil at a water-cut of 23%. During December, 2000 oil production declined to 1.74 m3/day with a slight decrease in water-cut to 19%. Aside from January, 2000, oil production during the remaining months of 2000 was flat at 10-12. The 10-12 well is currently the best producer in the Unit at this time, and is receiving good waterflood support from injector 15-12. No corrective action is planned during 2001 for 10-12.

m. 16-12-1-26

Oil production during 2000 averaged 0.84 m3/day at a water-cut of 89%. Both oil rate and water-cut were relatively flat during 2000, except for the month of January, 2000. The 16-12 well is impacted by both injectors 15-12-1-26 and 13-7-1-25. The offsetting twin well at 16-12 must also be pumped concurrently to the unitized well (in order for the unitized well to produce oil), since both wells are connected by a hydraulic fracture, which brings in water from the Mission Canyon formation into the unitized well-bore. There has been a decline in total fluid production at 16-12 in the last 2 years as a result of injection being cutback at 13-7. No corrective work is planned at 16-12 during 2001.

Tundra
oil and gas ltd.

9. Summary

The Waskada Unit No.6 is a mature pressure maintenance operation with low oil recovery. Oil production is obtained from both the Spearfish and Mission Canyon formations due to initial completion practices. Hydraulic fracturing has resulted in MC-3 oil being captured by Spearfish well-bores both under primary and secondary recovery. The current waterflood optimization program is focused on maximizing oil recovery from the existing 16 hectare depletion strategy. Waterflood optimization historically has been directed towards the entire Unit (acid stimulations included), with specific emphasis on the southern sector of the Unit, where low reservoir pressure conditions exist. Initial results from the optimization programs indicate an attractive improvement in the oil recovery factor from 18.3% (1994 projection) to 19.3% (2000 estimate) of oil-in-place. Further monitoring is required to determine the long term benefits of the current waterflood optimization initiatives.

CONCLUSIONS

The following reservoir management strategy will be continued in the Unit during 2001:

1. The average daily water injection volume will be maintained at 250 m3/day.

2. A pressure survey will be considered in the Unit during 2001 to measure the impact of the new injectors in the Unit.

3. Although no further abandonments are planned in the Unit during 2001, marginal producers and ineffective injectors will be considered for this type of action if required.

4. Historical reservoir management optimization initiatives indicate that incremental oil recovery of 82,000 STB is forecasted from the Unit.

Tundra
oil and gas ltd.

5. Fluid levels will be monitored in all wells on a regular basis to ensure all oil wells are pumping to their maximum efficiency.

6. No further acid stimulations are under consideration at this time, however, if a circumstance arises during 2001 where this type of corrective procedure would be beneficial, plans will be made to implement this type of program.

7. Wells 16-7-1-25 and 8-12-1-26 will be considered for re-fracturing during 2001 to increase total fluid production, and as a result improve oil recovery.

LIST OF TABLES

TABLE NO.1

WASKADA UNIT NO.6

WELL LIST

The following wells are included in the Waskada Unit No.6

Wells	Status
12-6-1-25	Abandoned
13-6-1-25	Injector
4-7-1-25	Abandoned
5-7-1-25	Abandoned Injector
11-7-1-25	Abandoned
12-7-1-25	Water Source
13-7-1-25	Injector
14-7-1-25	Producer
15-7-1-25	Injector
16-7-1-25	Producer
3-18-1-25	Producer
4-18-1-25	Abandoned
5-18-1-25	Abandoned Injector
6-18-1-25	Abandoned
7-1-1-26	Injector
8-1-1-26	Producer
9-1-1-26	Injector

TABLE No.1 (Continued)

WASKADA UNIT NO.6

WELL LIST

Wells	Status
10-1-1-26	Producer
15-1-1-26	Injector
16-1-1-26	Producer
1-12-1-26	Injector
2-12-1-26	Abandoned
3-12-1-26	Abandoned Injector
5-12-1-26	Abandoned Injector
6-12-1-26	Producer
7-12-1-26	Abandoned Injector
8-12-1-26	Producer
9-12-1-26	Producer
10-12-1-26	Producer
15-12-1-26	Injector
16-12-1-26	Producer

TABLE NO.1 (Continued)

WASKADA UNIT NO.6

WELL LIST

Note: Total Unit Wells (producers, injectors, and abandoned) = 31 Wells

Producers	=	11 Wells
Injectors	=	8 Wells
Abandoned	=	11 Wells
Water Source Well	=	1 Well

TABLE NO. 2

WASKADA UNIT NO.6

2000 PRODUCTION DATA

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
OIL (m3)	279.3	251.6	268.5	262.1	266.2	210.6	246.6	228.8	228.9	242.7	240.3	235.7
WATER (m3)	6,978.5	6,232.6	6,715.8	6,666.1	6,916.0	5,028.1	6,572.2	4,931.5	5,741.0	4,998.2	5,829.6	5,817.9
TOTAL FLUID (m3)	7,257.8	6,484.2	6,984.3	6,928.2	7,182.2	5,238.7	6,818.8	5,160.3	5,969.9	5,240.9	6,069.9	6,053.6
DAILY OIL (m3/day)	9.0	8.7	8.7	8.8	8.6	7.9	8.0	7.5	7.7	7.9	8.0	7.8
WATER-CUT (%)	96.2	96.1	96.2	96.2	96.3	96.0	96.4	95.6	96.2	95.4	96.0	96.1

AVERAGE MONTHLY OIL =	246.8	m3
AVERAGE MONTHLY WATER =	6,035.6	m3
AVERAGE MONTHLY TOTAL FLUID =	6,282.4	m3
AVERAGE ANNUAL DAILY OIL =	8.2	m3/day
AVERAGE MONTHLY WATER-CUT =	96.1	%
2000 CUM. OIL PRODUCTION =	2,961	m3
2000 CUM.WATER PRODUCTION =	72,427.5	m3
CUM. OIL PRODUCTION TO 2000.12.31 =	217,340	m3

TABLE NO.3

WASKADA UNIT NO.6

ORIGINAL OIL-IN-PLACE ESTIMATES

BASED ON LOG AND CORE DERIVED RESERVOIR PARAMETERS

Well	Constant	Area (hectares)	Net Pay (m)	Porosity (fraction)	Sw (fraction)	Pore Volume (m)	HCPV (m)	Boi Rm3/m3	OOIP (m3)	OOIP (STB)
12-6-1-25	10,000	16.17	2.83	0.18	0.45	0.52	0.28	1.17	39,151	246,261
13-6-1-25	10,000	16.17	3.75	0.16	0.45	0.60	0.33	1.17	45,608	286,872
4-7-1-25	10,000	16.17	3.05	0.18	0.45	0.53	0.29	1.17	40,572	255,197
5-7-1-25	10,000	16.17	1.30	0.17	0.45	0.21	0.12	1.17	16,305	102,557
11-7-1-25	10,000	16.17	3.15	0.18	0.45	0.58	0.32	1.17	44,009	276,818
12-7-1-25	10,000	16.17	2.60	0.17	0.45	0.43	0.24	1.17	33,005	207,600
13-7-1-25	10,000	16.17	4.00	0.17	0.45	0.68	0.37	1.17	51,385	323,210
14-7-1-25	10,000	16.17	3.00	0.18	0.45	0.54	0.30	1.17	41,343	260,050
15-7-1-25	10,000	16.17	4.10	0.16	0.45	0.65	0.36	1.17	49,553	311,687
16-7-1-25	10,000	16.17	5.84	0.15	0.45	0.88	0.48	1.17	66,587	418,834
3-18-1-25	10,000	16.17	2.19	0.16	0.45	0.35	0.19	1.17	26,302	165,439
4-18-1-25	10,000	16.17	2.40	0.18	0.45	0.43	0.23	1.17	32,473	204,253
5-18-1-25	10,000	16.17	3.02	0.17	0.45	0.50	0.28	1.17	38,222	240,413
6-18-1-25	10,000	16.17	4.02	0.14	0.45	0.57	0.31	1.17	43,330	272,546
7-1-1-26	10,000	16.17	4.43	0.16	0.45	0.71	0.39	1.17	54,046	339,951
8-1-1-26	10,000	16.17	3.95	0.17	0.45	0.66	0.36	1.17	50,142	315,392
9-1-1-26	10,000	16.17	1.15	0.15	0.45	0.17	0.09	1.17	13,007	81,816

TABLE NO.3

WASKADA UNIT NO.6

ORIGINAL OIL-IN-PLACE ESTIMATES

BASED ON LOG AND CORE DERIVED RESERVOIR PARAMETERS

Well	Constant	Area (hectares)	Net Pay (m)	Porosity (fraction)	Sw (fraction)	Pore Volume (m)	HCPV (m)	Boi Rm3/m3	OOIP (m3)	OOIP (STB)
10-1-1-26	10,000	16.17	1.69	0.15	0.45	0.26	0.14	1.17	19,616	123,385
15-1-1-26	10,000	16.17	6.83	0.15	0.45	0.99	0.55	1.17	75,435	474,486
16-1-1-26	10,000	16.17	4.55	0.15	0.45	0.68	0.37	1.17	51,464	323,707
1-12-1-26	10,000	16.17	3.50	0.16	0.45	0.55	0.30	1.17	42,035	264,401
2-12-1-26	10,000	16.17	5.95	0.16	0.45	0.93	0.51	1.17	71,007	446,636
3-12-1-26	10,000	16.17	6.87	0.14	0.45	0.93	0.51	1.17	70,916	446,061
5-12-1-26	10,000	16.17	0.90	0.17	0.45	0.15	0.08	1.17	11,288	71,001
6-12-1-26	10,000	16.17	1.83	0.15	0.45	0.27	0.15	1.17	20,323	127,832
7-12-1-26	10,000	16.17	1.29	0.15	0.45	0.19	0.11	1.17	14,512	91,283
8-12-1-26	10,000	16.17	1.29	0.15	0.45	0.19	0.11	1.17	14,512	91,283
9-12-1-26	10,000	16.17	3.90	0.17	0.45	0.65	0.36	1.17	49,655	312,332
10-12-1-26	10,000	16.17	6.17	0.16	0.45	1.00	0.55	1.17	76,353	480,261
15-12-1-26	10,000	16.17	5.00	0.17	0.45	0.83	0.45	1.17	62,711	394,450
16-12-1-26	10,000	16.17	3.30	0.14	0.45	0.45	0.25	1.17	34,315	215,843
Totals		501.27	3.48	0.16		0.55	0.30		1,299,182	8,171,855

NOTE: Net pay, Porosity, Pore Volume, and HCPV represent averages in the Totals row

TABLE NO.4

WASKADA UNIT NO.6

INDIVIDUAL WELL RECOVERY PROFILES

BASED ON LOG AND CORE DERIVED RESERVOIR PARAMETERS

Well	OOIP (m3)	OOIP (STB)	Cum. Prod. 2000.12.31 (m3)	Cum. Prod. 2000.12.31 (STB)	Primary Recovery (m3)	Primary Recovery (STB)	Ultimate Recovery (m3)	Ultimate Recovery (STB)	Primary Rec. Factor (%)	Current (2000.12.31) Rec. Factor (%)	Ultimate Rec. Factor (%)	Incremental Rec. Factor (%)
12-6-1-25	39,151	246,260	4,241.1	26,677	3,100.0	19,499	4,241	26,676	7.9	10.8	10.8	2.9
13-6-1-25	45,608	286,874	34.2	215	34.2	215	34.2	215	0.1	0.1	0.1	0.0
4-7-1-25	40,572	255,198	860.7	5,414	640.0	4,026	861	5,414	1.6	2.1	2.1	0.5
5-7-1-25	16,305	102,558	5,283.7	33,234	5,283.7	33,234	5,284	33,234	32.4	32.4	32.4	0.0
11-7-1-25	44,009	276,817	1,171.9	7,371	1,171.9	7,371	1,172	7,371	2.7	2.7	2.7	0.0
12-7-1-25	33,005	207,601	8,801.8	55,363	6,800.0	42,772	8,802	55,363	20.6	26.7	26.7	6.1
13-7-1-25	51,385	323,212	2,360.4	14,847	2,360.4	14,847	2,360	14,847	4.6	4.6	4.6	0.0
14-7-1-25	41,343	260,047	10,191.9	64,107	7,200.0	45,288	12,229	76,920	17.4	24.7	29.6	12.2
15-7-1-25	49,553	311,688	1,450.5	9,124	1,450.5	9,124	1,451	9,124	2.9	2.9	2.9	0.0
16-7-1-25	66,587	418,832	7,854.0	49,402	2,800.0	17,612	12,457	78,355	4.2	11.8	18.7	14.5
3-18-1-25	26,302	165,440	12,424.6	78,151	6,000.0	37,740	13,248	83,330	22.8	47.2	50.4	27.6
4-18-1-25	32,473	204,255	3,759.3	23,646	2,900.0	18,241	3,759	23,646	8.9	11.6	11.6	2.6
5-18-1-25	38,222	240,416	1,589.8	10,000	1,675.9	10,541	1,590	10,001	4.4	4.2	4.2	-0.2
6-18-1-25	43,330	272,546	1,116.3	7,022	940.0	5,913	1,116	7,022	2.2	2.6	2.6	0.4
7-1-1-26	54,046	339,949	98.4	619	98.4	619	98	619	0.2	0.2	0.2	0.0
8-1-1-26	50,142	315,393	7,412.8	46,627	4,000.0	25,160	9,133	57,447	8.0	14.8	18.2	10.2
9-1-1-26	13,007	81,814	3,896.5	24,509	3,100.0	19,499	3,897	24,509	23.8	30.0	30.0	6.1
10-1-1-26	19,616	123,385	12,845.0	80,795	6,000.0	37,740	16,883	106,194	30.6	65.5	86.1	55.5
15-1-1-26	75,435	474,486	2,493.9	15,687	2,493.9	15,687	2,494	15,687	3.3	3.3	3.3	0.0

TABLE NO.4

WASKADA UNIT NO.6

INDIVIDUAL WELL RECOVERY PROFILES

BASED ON LOG AND CORE DERIVED RESERVOIR PARAMETERS

Well	OOIP (m3)	OOIP (STB)	Cum. Prod. 2000.12.31 (m3)	Cum. Prod. 2000.12.31 (STB)	Primary Recovery (m3)	Primary Recovery (STB)	Ultimate Recovery (m3)	Ultimate Recovery (STB)	Primary Rec. Factor (%)	Current (2000.12.31) Rec. Factor (%)	Ultimate Rec. Factor (%)	Incremental Rec. Factor (%)
16-1-1-26	51,464	323,709	14,242.5	89,585	5,000.0	31,450	18,908	118,931	9.7	27.7	36.7	27.0
1-12-1-26	42,035	264,400	7,143.7	44,934	5,000.0	31,450	7,144	44,934	11.9	17.0	17.0	5.1
2-12-1-26	71,007	446,634	11,076.9	69,674	6,400.0	40,256	11,077	69,674	9.0	15.6	15.6	6.6
3-12-1-26	70,916	446,062	6,526.2	41,050	4,300.0	27,047	6,526	41,050	6.1	9.2	9.2	3.1
5-12-1-26	11,288	71,002	-	-	-	-	-	-	-	-	-	-
6-12-1-26	20,323	127,832	10,681.3	67,185	7,000.0	44,030	11,958	75,216	34.4	52.6	58.8	24.4
7-12-1-26	14,512	91,280	2,923.1	18,386	2,923.1	18,386	2,923	18,386	20.1	20.1	20.1	0.0
8-12-1-26	14,512	91,280	5,374.4	33,805	2,700.0	16,983	5,385	33,872	18.6	37.0	37.1	18.5
9-12-1-26	49,655	312,330	24,119.4	151,711	17,500.0	110,075	27,909	175,548	35.2	48.6	56.2	21.0
10-12-1-26	76,353	480,260	18,440.3	115,989	10,500.0	66,045	25,575	160,867	13.8	24.2	33.5	19.7
15-12-1-26	62,711	394,452	5,834.5	36,699	5,834.5	36,699	5,835	36,699	9.3	9.3	9.3	0.0
16-12-1-26	34,315	215,841	23,091.2	145,244	14,000.0	88,060	27,019.0	169,950	40.8	67.3	78.7	37.9
Totals	1,299,182	8,171,855	217,340	1,367,070	139,206.5	875,609	251,367	1,581,099	10.7	16.7	19.3	8.6

Note: Primary production represents cum. production prior to pressure maintenanc (June, 1987)
Incremental recovery factor estimate attributable to pressure maintenance

TABLE NO.5

WASKADA UNIT NO.6

2000 WATER INJECTION SUMMARY

TOTAL UNIT INJECTION WELLS

	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
TOTAL(m3)	8,618	5,805	8,522	8,432	8,998	6,826	8,812	6,839	7,234	6,396	7,477	7,370
DAILY(m3/day)	278	200	275	281	290	228	284	221	241	206	249	238

2000 AVERAGE ANNUAL DAILY INJECTION	249	m3/day
CUMULATIVE INJECTION TO 99-12-31 =	2,135,115	m3
2000 ANNUAL INJECTION =	91,329	m3
CUMULATIVE INJECTION TO 2000-12-31	2,226,444	m3

TABLE NO.6

WASKADA UNIT NO.6

VOIDAGE CALCULATIONS

FROM JAN 1, 2000 TO December 31, 2000

OIL FORMATION VOLUME FACTOR = 1.17 Rm3

MONTH	OIL PRODUCTION	ADJUSTED OIL PRODUCTION	WATER PRODUCTION	ADJ. WATER PRODUCTION	OIL VOIDAGE	TOTAL VOIDAGE	TOTAL INJECTION	ADJ. TOTAL INJECTION	NET VOIDAGE	VOIDAGE REPLACEMENT RATIO
	m3	m3	m3	m3	Rm3	Rm3	Rm3	Rm3	Rm3	VRR (Rm3/m3)
JAN.	279.3	209.5	6,978.5	2,094	245.1	2,338.6	8,618	2,585	-247	1.11
FEB.	251.6	188.7	6,232.6	1,870	220.8	2,090.6	5,805	1,742	349	0.83
MAR.	268.5	201.4	6,715.8	2,015	235.6	2,250.3	8,522	2,557	-306	1.14
APRIL	262.1	196.6	6,666.1	2,000	230.0	2,229.8	8,432	2,530	-300	1.13
MAY	266.2	199.7	6,916.0	2,075	233.6	2,308.4	8,998	2,699	-391	1.17
JUNE	210.6	158.0	5,028.1	1,508	184.8	1,693.2	6,826	2,048	-355	1.21
JULY	246.6	185.0	6,572.2	1,972	216.4	2,188.1	8,812	2,644	-456	1.21
AUG.	228.8	171.6	4,931.5	1,479	200.8	1,680.2	6,839	2,052	-371	1.22
SEPT.	228.9	171.7	5,741.0	1,722	200.9	1,923.2	7,234	2,170	-247	1.13
OCT.	242.7	182.0	4,998.2	1,499	213.0	1,712.4	6,396	1,919	-206	1.12
NOV.	240.3	180.2	5,829.6	1,749	210.9	1,959.7	7,477	2,243	-283	1.14
DEC.	235.7	176.8	5,817.9	1,745	206.8	1,952.2	7,370	2,211	-259	1.13
TOTAL	2,961.3	2,221.0	72,427.5	21,728	2,598.5	24,326.8	91,329	27,399	-3,072	1.13

CUM. POOL VOIDAGE (2000.12.31) =	547,788	Rm3
CUM. POOL INJECTION (2000.06.30) =	461,455	Rm3
CUM. NET VOIDAGE (2000.12.31) =	86,333	Rm3
CUM. VRR (2000.12.31) =	0.84	Rm3 / m3

Note:

Adjusted oil production = 75% from Spearfish formation

Adjusted water production = 30% from Spearfish formation

Adjusted total injection = 30% of total allocated to Spearfish formation

TABLE NO.7

PRESSURE SURVEYS

There were no pressure surveys completed in Waskada Unit No.6 during 2000. Pressure surveys in the Spearfish formation require extended shut-in periods before reliable data can be obtained. In a high oil price environment this type of analytical work will be postponed until more suitable economic conditions prevail. Since voidage replacement is being achieved with the current injection profiles, there is no concern at this time that oil recovery will not be maximized with the existing reservoir management strategy.

TABLE NO.8

WORKOVERS

In the Year 2000, two injectors, 3-12-1-26 and 5-12-1-26 were abandoned. Abandonment operations were initiated at these two locations because no further waterflood or pressure maintenance benefit was being provided by these wells. Otherwise, regular maintenance activities were implemented to ensure all wells were producing and injecting at their capability.

TABLE NO.9		
WASKADA UNIT NO.6		
2001 WATER INJECTION SCHEDULE		
Well	Recommended Rate (m3/day)	Comments
13-6-1-25	20	maximum rate of 30 m3/day
13-7-1-25	55	maximum rate of 60 m3/day
15-7-1-25	20	
7-1-1-26	10	
9-1-1-26	20	maximum rate of 35 m3/day
15-1-1-26	30	
1-12-1-26	35	maximum rate of 35 m3/day
3-12-1-26	-	Abandoned
5-12-1-26	-	Abandoned
15-12-1-26	60	maximum rate of 65 m3/day
Total	250	

TABLE NO.10

WASKADA UNIT NO.6

SOUTHERN SECTOR OF UNIT

VOIDAGE CALCULATIONS

as @ 2000.12.31

OIL FORMATION VOLUME FACTOR = 1.17 Rm3

Year	Cum. Oil Production	Adj. Cum. Oil Production	Cum. Water Production	Adj. Cum. Water Production	Cum. Oil Voidage	Cum. Pool Voidage	Cum. Injection	Adj. Cum. Injection	Cum. Net Voidage	Voidage Replacement Ratio
	m3	m3	m3	m3	Rm3	Rm3	Rm3	Rm3	Rm3	Cum VRR (Rm3/m3)
1986	26,205.1	19,653.8	56,682.0	17,005	22,995.0	39,999.6	-			
1987	31,347.1	23,510.3	72,279.2	21,684	27,507.1	49,190.8	20,242	2,024	47,167	0.04
1988	35,469.2	26,601.9	89,799.4	26,940	31,124.2	58,064.0	95,481	9,548	48,516	0.16
1989	40,690.1	30,517.6	111,965.0	33,590	35,705.6	69,295.1	164,450	16,445	52,850	0.24
1990	46,581.3	34,936.0	135,188.0	40,556	40,875.1	81,431.5	232,560	23,256	58,175	0.29
1991	51,749.2	38,811.9	157,531.0	47,259	45,409.9	92,669.2	291,776	29,178	63,492	0.31
1992	56,055.1	42,041.3	181,501.0	54,450	49,188.4	103,638.7	339,493	33,949	69,689	0.33
1993	59,208.6	44,406.5	207,387.0	62,216	51,955.5	114,171.6	381,071	38,107	76,065	0.33
1994	61,921.2	46,440.9	231,819.0	69,546	54,335.9	123,881.6	435,753	43,575	80,306	0.35
1995	63,935.3	47,951.5	254,477.0	76,343	56,103.2	132,446.3	494,125	49,413	83,034	0.37
1996	65,823.1	49,367.3	274,910.2	82,473	57,759.8	140,232.8	575,371	57,537	82,696	0.41
1997	67,277.8	50,458.4	290,008.8	87,003	59,036.3	146,038.9	646,242	64,624	81,415	0.44
1998	68,767.2	51,575.4	307,247.4	92,174	60,343.2	152,517.4	712,439	71,244	81,274	0.47
1999	69,918.0	52,438.5	322,468.4	96,741	61,353.0	158,093.6	752,314	75,231	82,862	0.48
2000	70,859.4	53,144.6	337,450.9	101,235	62,179.1	163,414.4	793,598	79,360	84,055	0.49
Cum. Totals	70,859	53,145	337,451	101,235	62,179	163,414	793,598	79,360	84,055	0.49

CUM. POOL VOIDAGE (2000.12.31) = 163,414 Rm3

CUM. POOL INJECTION (2000.12.31) = 79,360 Rm3

CUM. NET VOIDAGE (2000.12.31) = 84,055 Rm3

CUM. VRR (2000.12.31) = 0.49 Rm3 / m3

Note:

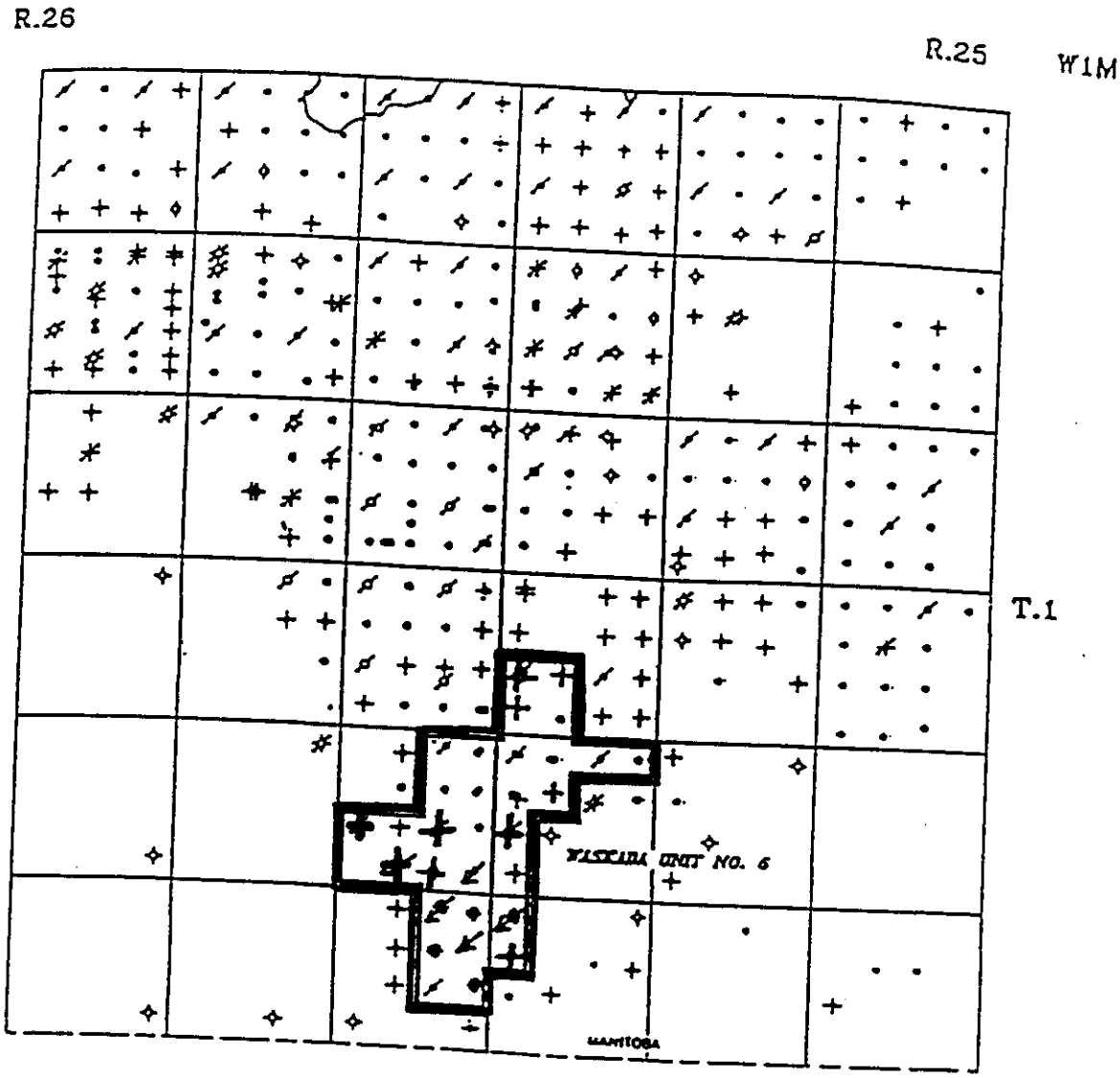
Adjusted oil production = 75% from Spearfish formation

Adjusted water production = 30% from Spearfish formation

Adjusted total injection = 10% of total allocated to Spearfish formation

LIST OF FIGURES

FIGURE NO.1
WASKADA UNIT NO.6



UNIT OUTLINE

FIGURE NO.2

wasu6 Data 11/82-12/00
Avg Daily Oil FC 2 (Rate-Time)
qi: 14.5743 m3/d, Nov, 1996
qf: 2.39355 m3/d, Nov, 2024
di(Har): 14.8807 CTD: 217340 m3
RR: 34027.1 m3 Tot: 251367 m3

Operator:
Field:
Zone:
Type: Oil
Group: waskada06

Production Cums
Oil: 217340 m3
Gas: 0 E6m3
Water: 1.19964e+06 m3
Cond: 0 m3

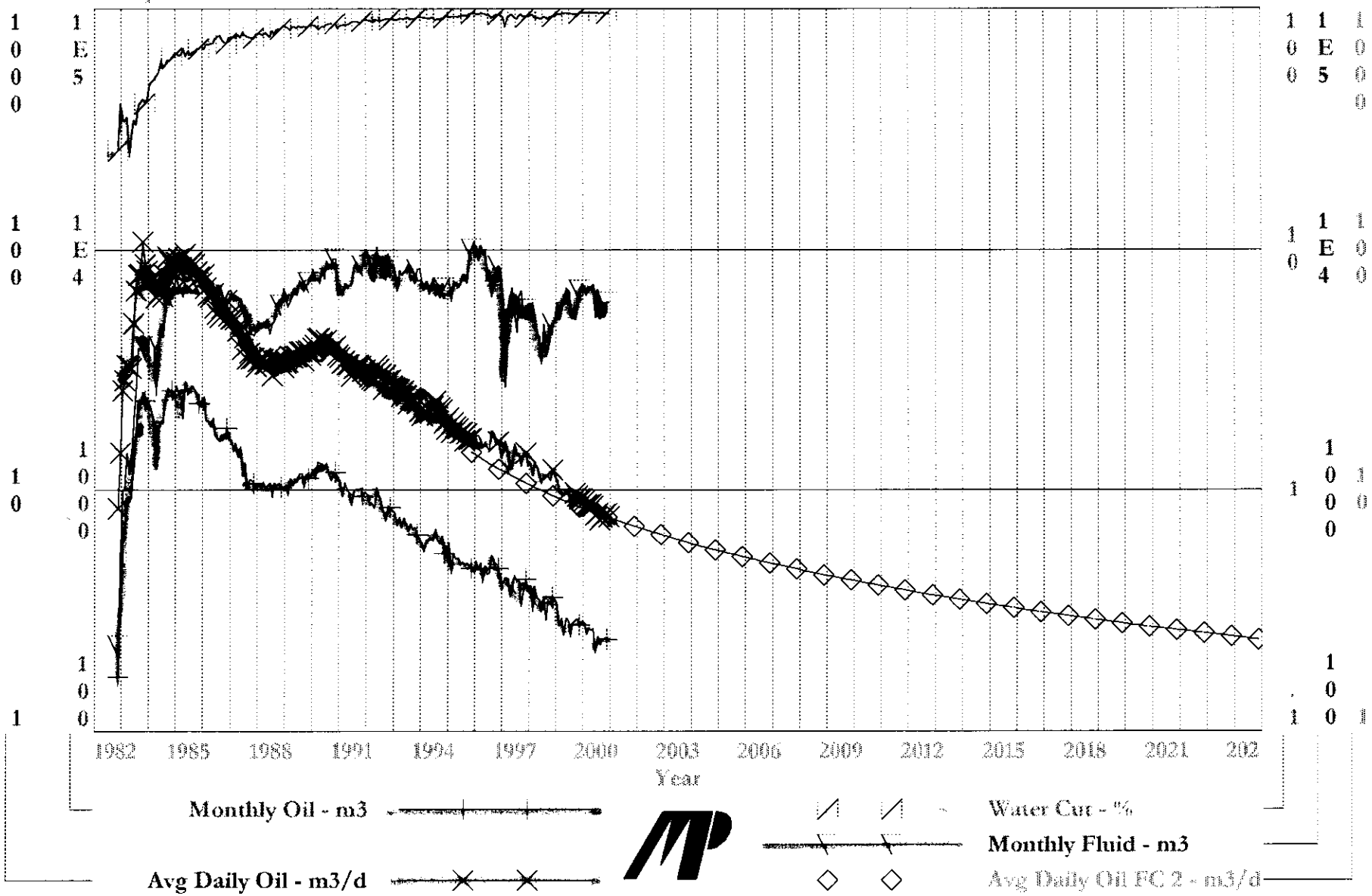


FIGURE NO.3

WASKADA UNIT NO.6 INJECTION HISTORY

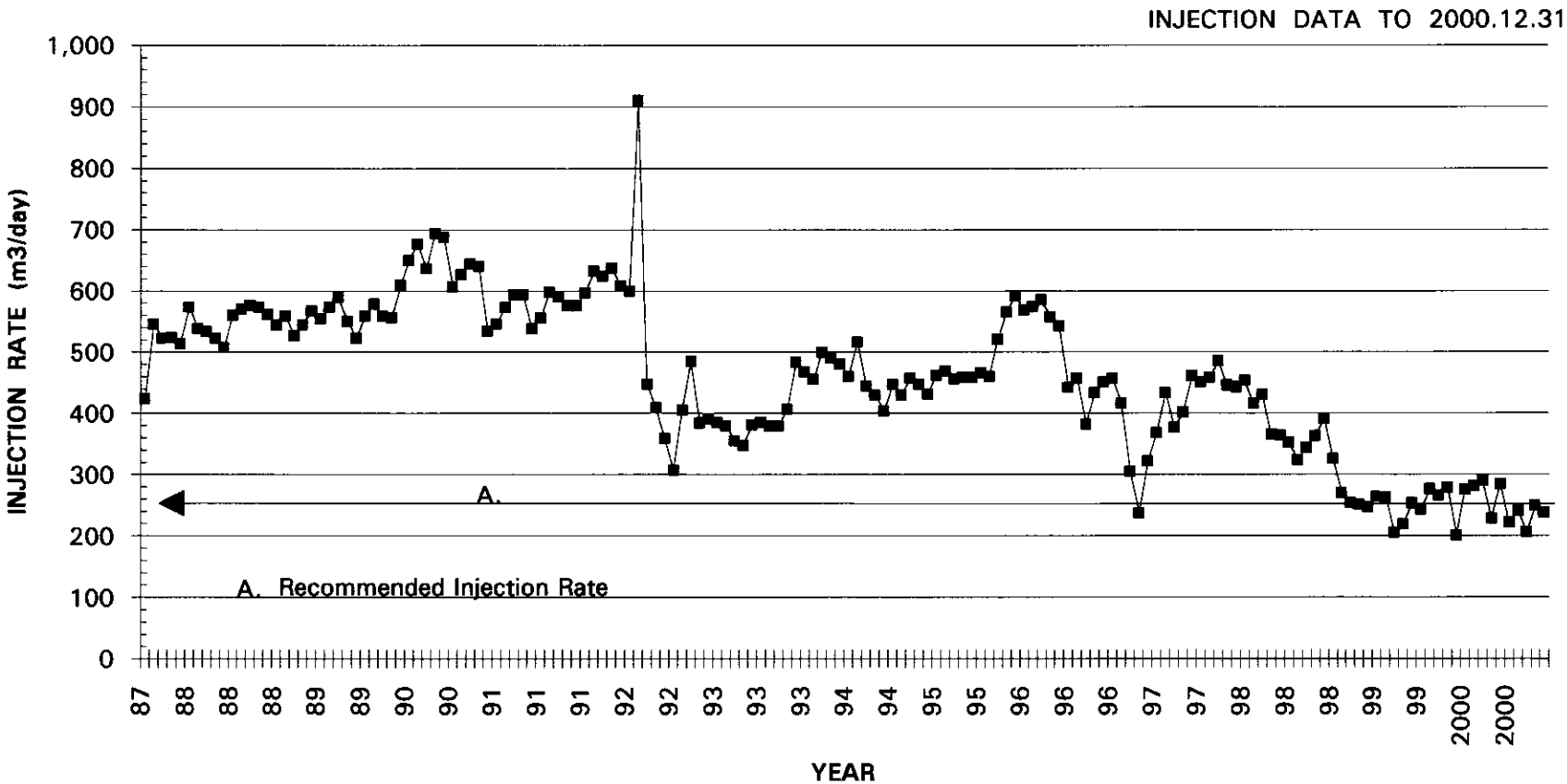


FIGURE NO.4

HISTORICAL OIL RATE AND WATER INJECTION PROFILE

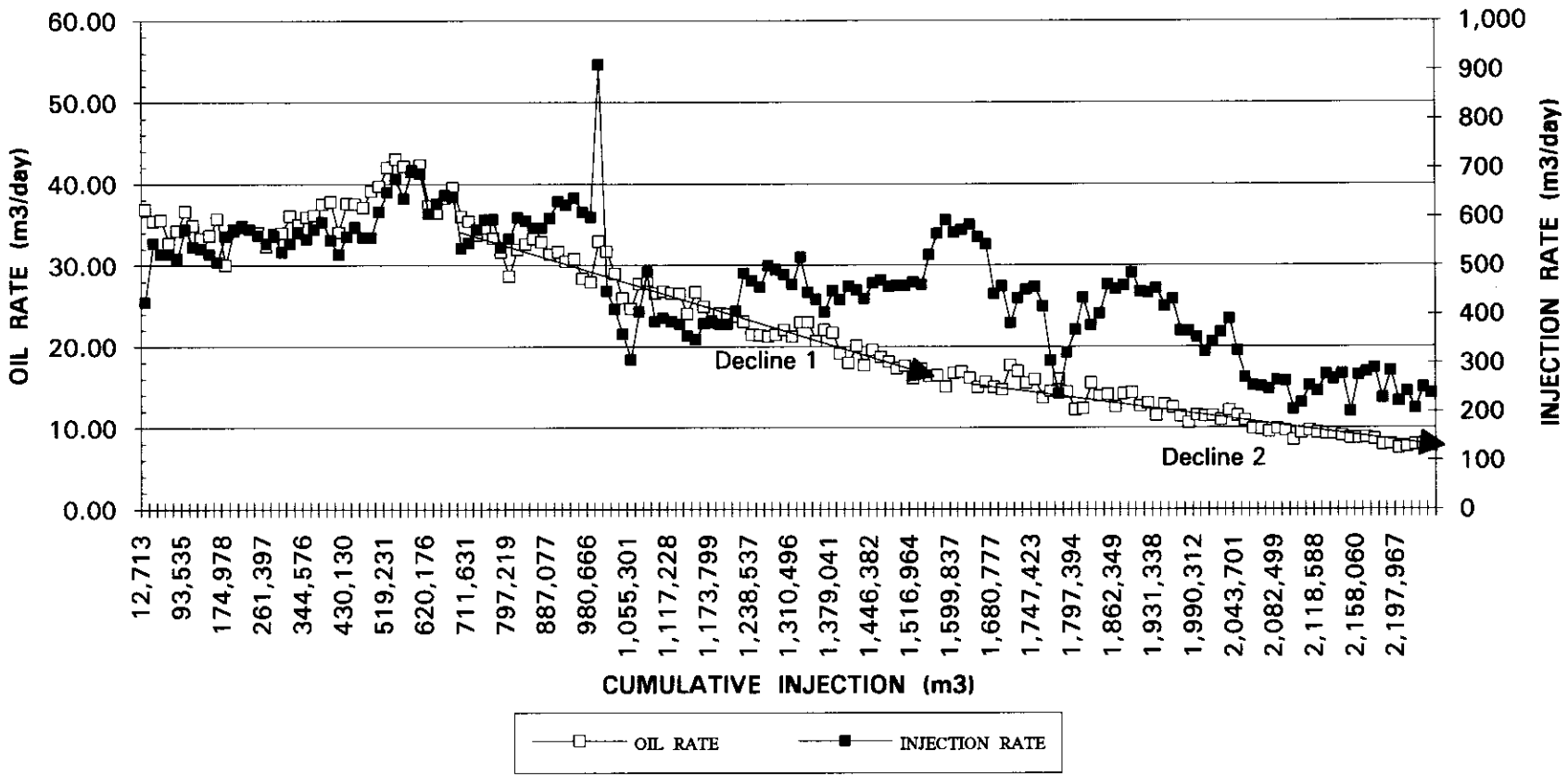


FIGURE NO.5

WASKADA UNIT NO.6

WATERFLOOD PATTERNS

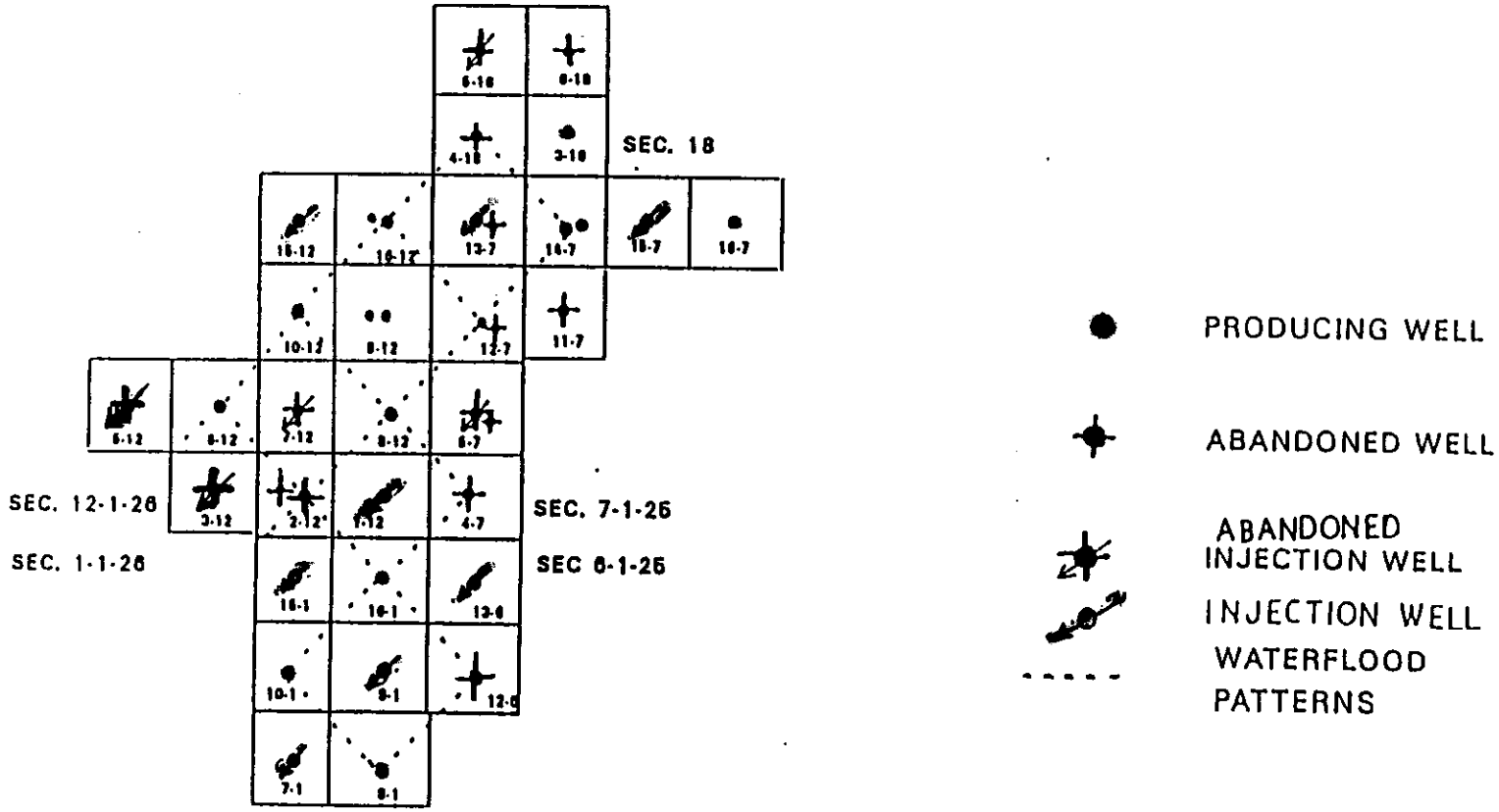


FIGURE NO.6

WASKADA UNIT NO.6 ULTIMATE OIL RECOVERY PREDICTION BASED ON OIL-CUT

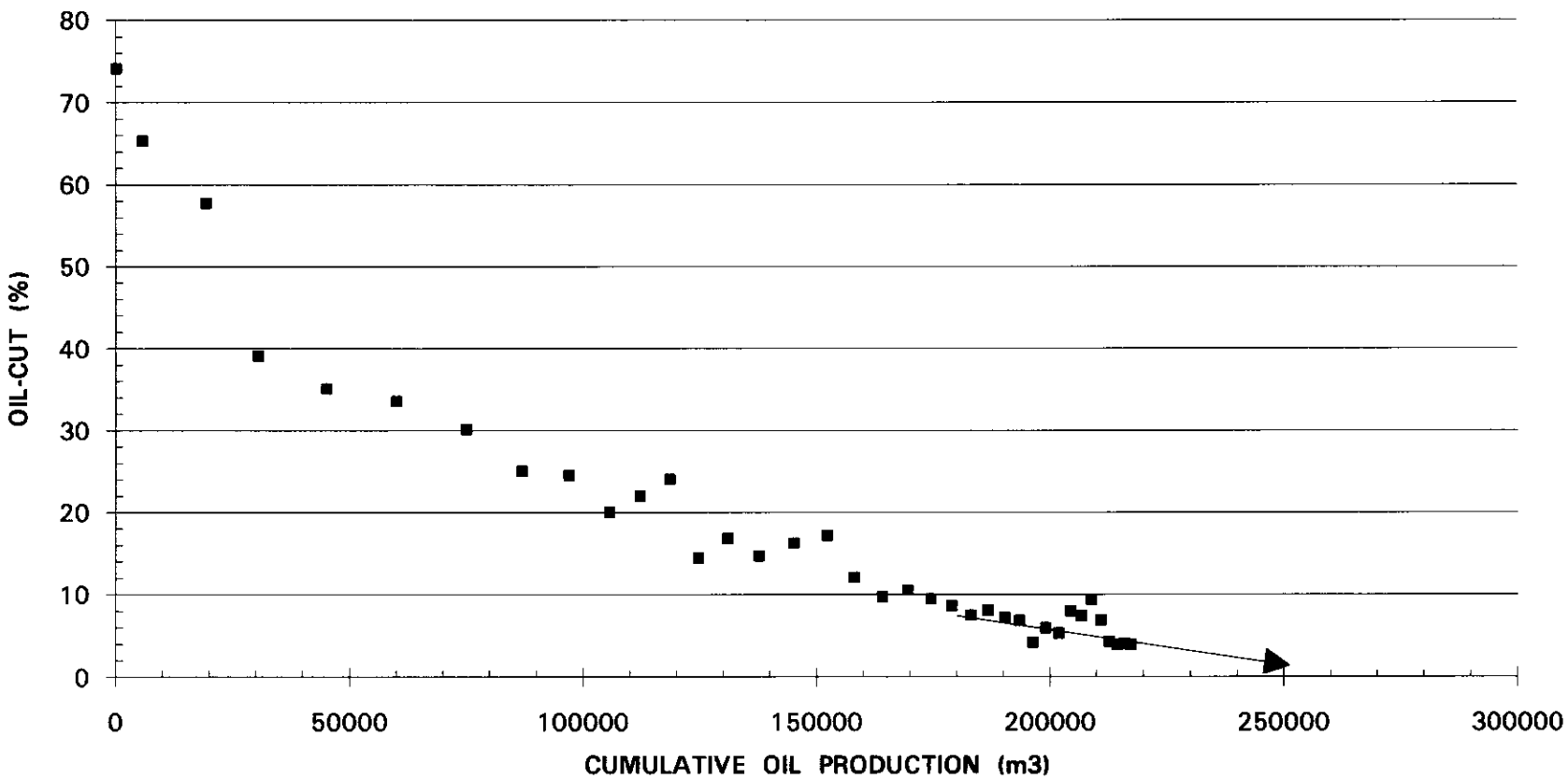
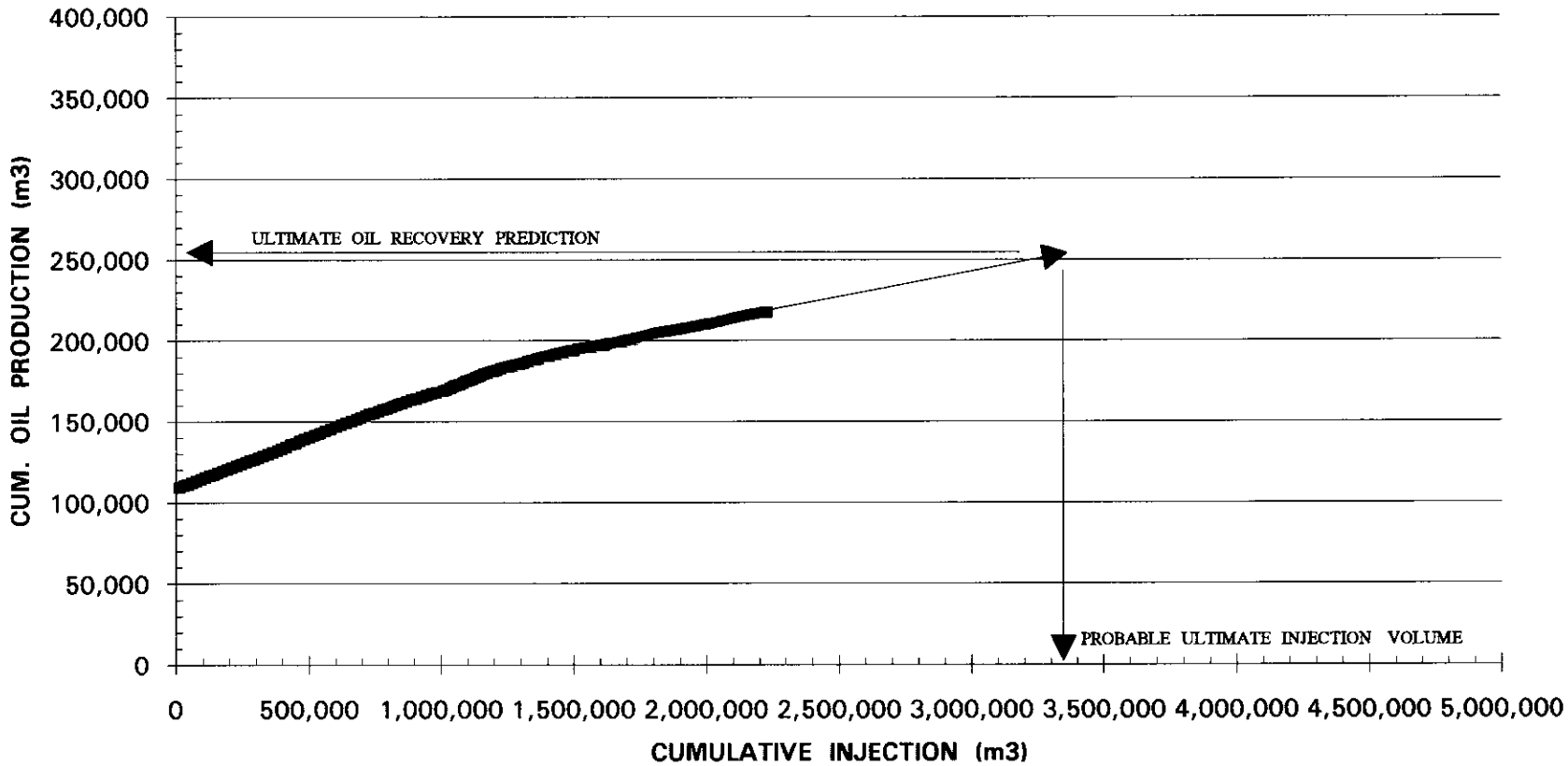


FIGURE NO.7

WASKADA UNIT NO.6 CUM. PRODUCTION vs CUM. INJECTION PROFILE



LIST OF APPENDICES

APPENDIX A

HISTORICAL UNIT PRODUCTION DATA

Production Report

Group	:	waskadau6	Date	:	September 3, 2006 5:58:47 am
Well	:	wasu6	User	:	George
	:	000000001			
Hist.Data	:	11/82-12/00	On Prod	:	02/09
Operator	:		Status	:	Oil
Field	:		Zone	:	

Production Data from November, 1982 to December, 2000

Year	Monthly Oil m3	Cum Oil m3	Avg Daily Oil m3/d	Water Cut %	Monthly Water m3	Cum Water m3
Nov., 1982	167.699	167.699	8.38496	25.8865	58.6	58.6
Dec., 1982	326.301	494	14.2645	40.4889	222.1	280.7
Jan., 1983	642.4	1136.4	25.9556	34.785	342.801	623.5
Feb., 1983	663.901	1800.3	28.6061	34.1923	345.101	968.601
Mar., 1983	918.301	2718.6	33.0423	35.3937	503.3	1471.9
Apr., 1983	894.001	3612.6	32.7573	24.3253	287.499	1759.4
May., 1983	925.3	4537.9	32.1843	29.1463	380.798	2140.2
Jun., 1983	1254.7	5792.6	49.3653	34.6887	666.7	2806.9
Jul., 1983	1743.1	7535.71	67.913	33.0407	860.502	3667.4
Aug., 1983	2343.5	9879.21	78.4435	39.8951	1556.2	5223.6
Sep., 1983	2265.4	12144.6	79.1406	40.8297	1563.9	6787.5
Oct., 1983	2558.8	14703.4	108.118	42.1973	1868.8	8656.31
Nov., 1983	2355.3	17058.7	86.9649	40.5991	1610.5	10266.8
Dec., 1983	2303.7	19362.4	82.0308	42.2596	1686.8	11953.6
Jan., 1984	2251.6	21614	74.2286	48.7126	2139.5	14093.1
Feb., 1984	2105.8	23719.8	76.3433	48.7505	2004	16097.1
Mar., 1984	1951.4	25671.2	75.9052	50.9071	2024.4	18121.5
Apr., 1984	1218.7	26889.9	63.4465	50.7923	1258.5	19380
May., 1984	1819.9	28709.8	65.7796	54.5018	2181	21561
Jun., 1984	1917.6	30627.4	66.6026	60.9043	2988.6	24549.6
Jul., 1984	1882.8	32510.2	64.1863	56.5987	2456.4	27006
Aug., 1984	2354.2	34864.4	78.3645	58.1896	3277.9	30283.9
Sep., 1984	2654.2	37518.6	93.6776	61.509	4243.3	34527.2
Oct., 1984	2611.7	40130.3	89.544	61.219	4124.6	38651.8
Nov., 1984	2596.29	42726.6	87.3928	62.5828	4344.4	42996.2
Dec., 1984	2441.1	45167.7	80.8088	64.9253	4520.6	47516.8
Jan., 1985	2725.4	47893.1	88.8719	65.5336	5184.3	52701.1
Feb., 1985	2488	50381.1	92.5767	63.8633	4398.9	57100
Mar., 1985	2397.1	52778.2	84.6035	64.5225	4361.5	61461.5
Apr., 1985	1982.3	54760.5	73.5321	68.8507	4383.5	65845
May., 1985	2833.4	57593.9	96.1834	63.5487	4941.9	70786.9
Jun., 1985	2488.1	60082	85.6736	66.4537	4931	75717.9
Jul., 1985	2662.5	62744.5	88.6269	64.5296	4845.9	80563.8
Aug., 1985	2718.2	65462.7	89.3656	65.9624	5270	85833.8
Sep., 1985	2620.5	68083.2	87.5932	66.6314	5235	91068.8
Oct., 1985	2473.2	70556.4	81.6462	68.2278	5313.3	96382.1
Nov., 1985	2307	72863.4	77.6551	68.4137	4999	101381

Production Report

Group	:	waskadau6	Date	:	September 3, 2006 5:58:47 am
Well	:	wasu6	User	:	George
	:	000000001			

Production Data from November, 1982 to December, 2000 (cont.)

Year	Monthly Oil m3	Cum Oil m3	Avg Daily Oil m3/d	Water Cut %	Monthly Water m3	Cum Water m3
Dec., 1985	2209.51	75072.9	73.2433	69.8873	5130.2	106511
Jan., 1986	2447.6	77520.5	79.1676	67.9168	5183.6	111695
Feb., 1986	1949.7	79470.2	69.6321	70.3091	4619	116314
Mar., 1986	1938.7	81408.9	65.0753	71.7342	4922.3	121236
Apr., 1986	1847.3	83256.2	63.8835	71.4543	4626.1	125862
May., 1986	1998.5	85254.7	65.9752	71.8134	5094	130956
Jun., 1986	1699.6	86954.3	57.6134	75.0054	5102.5	136059
Jul., 1986	1628.5	88582.8	54.2832	76.5412	5315.8	141375
Aug., 1986	1597.2	90180	52.5107	77.6201	5542	146917
Sep., 1986	1706.7	91886.7	57.2878	74.4288	4969.8	151886
Oct., 1986	1638.7	93525.4	58.3513	72.4667	4314.9	156201
Nov., 1986	1809.2	95334.6	61.7649	72.1282	4684	160885
Dec., 1986	1648	96982.6	53.3764	75.4714	5072.9	165958
Jan., 1987	1596.1	98578.7	51.7653	76.4132	5173.1	171131
Feb., 1987	1458.9	100038	52.573	76.1226	4653.1	175784
Mar., 1987	1565.8	101603	51.4784	75.7392	4890.4	180675
Apr., 1987	1367.2	102971	46.0853	78.3195	4941.1	185616
May., 1987	1517.1	104488	49.0046	75.6185	4707.3	190323
Jun., 1987	1148.1	105636	38.6456	79.9992	4594.2	194917
Jul., 1987	1299.3	106935	43.1899	77.8805	4576.7	199494
Aug., 1987	1011.1	107946	35.2196	76.4962	3292.2	202786
Sep., 1987	1106	109052	37.2286	76.0842	3520.1	206306
Oct., 1987	1097.7	110150	35.5052	75.3824	3362.8	209669
Nov., 1987	1066.4	111216	35.5466	75.7677	3335.8	213005
Dec., 1987	1013.8	112230	32.7472	78.0592	3608.4	216613
Jan., 1988	1062.1	113292	34.4465	79.0225	4002.7	220616
Feb., 1988	1025.7	114318	35.4198	78.4547	3736.6	224353
Mar., 1988	1082.9	115401	35.0264	77.4901	3729.5	228082
Apr., 1988	999.003	116400	33.627	79.6209	3904.8	231987
May., 1988	1044.9	117445	33.8888	79.7432	4115.2	236102
Jun., 1988	1071.5	118516	35.7663	75.9662	3388.3	239491
Jul., 1988	931.3	119448	30.0419	81.0436	3983.3	243474
Aug., 1988	1064.7	120512	34.4377	78.6457	3922.9	247397
Sep., 1988	1042.5	121555	34.75	81.7369	4667.8	252065
Oct., 1988	1067.1	122622	34.4227	82.7752	5130.3	257195
Nov., 1988	1021.1	123643	34.3227	82.7104	4886.9	262082
Dec., 1988	1001.1	124644	32.4681	85.5574	5933.1	268015
Jan., 1989	1047.8	125692	33.8454	83.7213	5391.2	273406
Feb., 1989	949.9	126642	34.1793	83.5762	4835.9	278242
Mar., 1989	1118.6	127760	36.0839	81.6044	4964.4	283206
Apr., 1989	1049.8	128810	35.6368	84.1085	5558.7	288765

Production Report

Group : waskadau6
Well : wasu6
: 000000001

Date : September 3, 2006 5:58:47 am
User : George

Production Data from November, 1982 to December, 2000 (cont.)

Year	Monthly Oil m3	Cum Oil m3	Avg Daily Oil m3/d	Water Cut %	Monthly Water m3	Cum Water m3
May., 1989	1114.1	129924	36.0355	84.0362	5867.4	294632
Jun., 1989	1083.2	131007	36.1067	83.2333	5379.6	300012
Jul., 1989	1162.9	132170	37.6141	84.4497	6318.2	306330
Aug., 1989	1172.7	133343	37.829	83.3825	5886.9	312217
Sep., 1989	1021	134364	34.6591	84.8032	5700	317917
Oct., 1989	1166.1	135530	37.8195	83.5751	5936.1	323853
Nov., 1989	1125.1	136655	38.0852	84.6283	6196.9	330050
Dec., 1989	1128	137783	36.6334	85.297	6546.8	336597
Jan., 1990	1203.6	138987	39.0357	85.4853	7091.8	343689
Feb., 1990	1105	140092	40.0605	85.1902	6359.1	350048
Mar., 1990	1309.1	141401	42.6881	82.8083	6308.4	356356
Apr., 1990	1291.4	142692	43.0465	82.1282	5937.1	362293
May., 1990	1281.5	143974	41.3944	84.7183	7107.5	369401
Jun., 1990	1228.4	145202	41.3488	83.7672	6341.8	375743
Jul., 1990	1293.6	146496	42.0114	85.6652	7734	383477
Aug., 1990	1156.6	147652	37.7666	86.1502	7197.6	390674
Sep., 1990	1092.5	148745	37.8354	87.1132	7388.4	398063
Oct., 1990	1186.6	149932	39.0116	87.0597	7986.7	406049
Nov., 1990	1186.7	151118	39.8334	87.1216	8031.5	414081
Dec., 1990	1115.6	152234	36.5272	82.828	5383.4	419464
Jan., 1991	1098.5	153332	35.6753	84.6856	6077.2	425541
Feb., 1991	942.103	154274	33.848	85.5807	5594	431135
Mar., 1991	1073.2	155348	34.6194	85.2345	6197.8	437333
Apr., 1991	999.403	156347	33.3134	85.6521	5968.7	443302
May., 1991	981.301	157328	33.3115	86.1709	6117.3	449419
Jun., 1991	860.304	158189	29.8803	87.9611	6288.5	455708
Jul., 1991	989.699	159178	32.1418	88.2887	7464.4	463172
Aug., 1991	1009.6	160188	32.6115	88.5594	7818.5	470991
Sep., 1991	997.497	161185	33.2499	87.6838	7104.7	478095
Oct., 1991	1019.8	162205	32.8968	87.5344	7164.3	485260
Nov., 1991	939.401	163145	31.3134	89.0653	7655	492915
Dec., 1991	981.3	164126	31.6548	90.2928	9131.7	502046
Jan., 1992	944.703	165071	30.639	90.2971	8795.5	510842
Feb., 1992	861.599	165932	29.7103	90.2603	7988.2	518830
Mar., 1992	878.702	166811	29.0081	88.2186	6582.6	525413
Apr., 1992	838.203	167649	28.5751	88.6375	6541.6	531954
May., 1992	1021.1	168670	33.0274	90.0704	9266.4	541221
Jun., 1992	951.898	169622	31.9966	89.4414	8067	549288
Jul., 1992	896.098	170518	30.5488	89.2426	7437.2	556725
Aug., 1992	805.402	171324	26.3706	89.9154	7184.2	563909
Sep., 1992	739.404	172063	30.1797	90.1239	6750.4	570659

Production Report

Group : waskadau6
Well : wasu6
: 000000001

Date : September 3, 2006 5:58:47 am
User : George

Production Data from November, 1982 to December, 2000 (cont.)

Year	Monthly Oil m3	Cum Oil m3	Avg Daily Oil m3/d	Water Cut %	Monthly Water m3	Cum Water m3
Oct., 1992	859.598	172923	28.6533	91.0549	8754	579413
Nov., 1992	844.999	173768	28.7252	90.1248	7715.2	587129
Dec., 1992	822.104	174590	27.0651	90.5421	7873.6	595002
Jan., 1993	804.396	175394	26.7389	90.3373	7523.7	602526
Feb., 1993	712.2	176106	26.4594	89.3687	5989.5	608515
Mar., 1993	772.9	176879	26.3489	90.6042	7456.4	615972
Apr., 1993	695.702	177575	24.5181	91.1244	7145.8	623118
May., 1993	764	178339	26.0085	90.2636	7086	630204
Jun., 1993	716.597	179056	24.7814	91.3649	7585.4	637789
Jul., 1993	674.7	179730	22.9685	92.2782	8066.4	645855
Aug., 1993	723.501	180454	24.0166	90.2925	6732.5	652588
Sep., 1993	685.401	181139	23.979	91.1884	7096.1	659684
Oct., 1993	699.803	181839	23.7221	90.3563	6559.7	666244
Nov., 1993	651.901	182491	23.0083	92.1186	7622.8	673866
Dec., 1993	624.796	183116	21.2999	92.5321	7745	681612
Jan., 1994	589.999	183706	20.5217	91.977	6766.8	688378
Feb., 1994	553.398	184259	21.0818	91.9004	6281.8	694660
Mar., 1994	614.697	184874	20.9854	91.6854	6781.3	701441
Apr., 1994	617.3	185491	21.5965	90.5912	5946.2	707388
May., 1994	632.797	186124	21.152	90.9138	6334.4	713722
Jun., 1994	615.7	186740	22.2878	91.9637	7048.9	720771
Jul., 1994	687.701	187427	23.4111	89.3374	5764.5	726535
Aug., 1994	614.1	188041	20.5844	90.7827	6051	732586
Sep., 1994	600.999	188642	22.0888	90.504	5730.5	738317
Oct., 1994	643.401	189286	21.6269	91.1494	6629.1	744946
Nov., 1994	546.202	189832	19.0259	92.1238	6391.5	751338
Dec., 1994	521.8	190354	17.8903	92.8557	6784.9	758122
Jan., 1995	603.599	190957	20.0088	91.976	6921.9	765044
Feb., 1995	451.101	191408	17.462	92.5868	5636.5	770681
Mar., 1995	545.303	191954	19.1334	92.6615	6888.4	777569
Apr., 1995	515.199	192469	18.3182	92.9021	6746.2	784315
May., 1995	522.104	192991	18.0295	92.4907	6433.5	790749
Jun., 1995	488.504	193480	17.2667	93.1595	6655.8	797405
Jul., 1995	501.101	193981	17.4549	93.6368	7377.1	804782
Aug., 1995	483.999	194465	16.0442	93.8312	7365.1	812147
Sep., 1995	494.301	194959	17.218	93.1854	6762.2	818909
Oct., 1995	483.396	195442	16.2943	94.8222	8856.5	827765
Nov., 1995	472.503	195915	16.4349	95.3181	9623.9	837389
Dec., 1995	456.099	196371	15.0569	95.8065	10424.8	847814
Jan., 1996	506.5	196877	16.7208	94.9353	9498.2	857312
Feb., 1996	469.8	197347	16.879	94.8114	8588.4	865901

Production Report

Group : waskadau6
Well : wasu6
: 000000001

Date : September 3, 2006 5:58:47 am
User : George

Production Data from November, 1982 to December, 2000 (cont.)

Year	Monthly Oil m3	Cum Oil m3	Avg Daily Oil m3/d	Water Cut %	Monthly Water m3	Cum Water m3
Mar., 1996	495.801	197843	16.1455	95.2531	9953.2	875854
Apr., 1996	411.202	198254	14.9755	95.7252	9212	885066
May., 1996	480.997	198735	15.6634	95.1095	9358.4	894424
Jun., 1996	445.8	199181	14.943	94.0885	7098.5	901523
Jul., 1996	448.299	199629	14.7184	94.5569	7791.3	909314
Aug., 1996	534.003	200163	17.6773	91.6372	5854	915168
Sep., 1996	500.799	200664	16.9284	93.4152	7107.7	922276
Oct., 1996	470.502	201135	15.5111	94.1694	7602.4	929878
Nov., 1996	472.8	201607	15.9147	94.4876	8107.8	937986
Dec., 1996	407.399	202015	13.6941	94.7415	7343.3	945330
Jan., 1997	413.4	202428	14.463	92.0094	4762.3	950092
Feb., 1997	433.098	202861	15.9668	83.8312	2246.5	952338
Mar., 1997	426.699	203288	14.3831	91.5376	4617.6	956956
Apr., 1997	361.5	203650	12.2197	94.2683	5948.1	962904
May., 1997	378.199	204028	12.3159	94.5577	6574	969478
Jun., 1997	440.101	204468	15.5102	92.0349	5087.5	974565
Jul., 1997	414.302	204882	13.8872	90.9054	4143	978708
Aug., 1997	423.8	205306	14.0875	93.3791	5979.8	984688
Sep., 1997	329.403	205635	12.5487	95.1476	6461.9	991150
Oct., 1997	381.699	206017	14.1588	92.8993	4996	996146
Nov., 1997	426.599	206444	14.2994	92.4701	5241.1	1.00139e+06
Dec., 1997	378.3	206822	12.6275	92.595	4732.5	1.00612e+06
Jan., 1998	397.799	207220	12.9894	92.5842	4968.6	1.01109e+06
Feb., 1998	314.2	207534	11.5127	94.8101	5742.4	1.01683e+06
Mar., 1998	397.202	207931	12.8822	92.1171	4643.6	1.02147e+06
Apr., 1998	356.802	208288	12.5011	91.9684	4087.5	1.02556e+06
May., 1998	348.699	208637	11.4328	92.0104	4017.5	1.02958e+06
Jun., 1998	313.201	208950	10.632	90.6299	3030.7	1.03261e+06
Jul., 1998	352.099	209302	11.56	92.8027	4542	1.03715e+06
Aug., 1998	288.503	209590	11.4258	92.0035	3320.8	1.04047e+06
Sep., 1998	344.801	209935	11.4934	90.9265	3456.8	1.04393e+06
Oct., 1998	334.1	210269	10.9541	92.7204	4257.3	1.04819e+06
Nov., 1998	359.999	210629	12.1519	92.6673	4551.5	1.05274e+06
Dec., 1998	351.499	210981	11.4619	93.142	4776	1.05751e+06
Jan., 1999	335.799	211317	10.8614	94.4688	5737.7	1.06325e+06
Feb., 1999	272.999	211590	9.94232	94.6741	4855	1.06811e+06
Mar., 1999	294.101	211884	9.78977	95.0467	5645.9	1.07375e+06
Apr., 1999	250.601	212134	9.45664	95.8327	5765.5	1.07952e+06
May., 1999	294.401	212429	9.96563	95.7442	6626.1	1.08614e+06
Jun., 1999	285.399	212714	9.70195	95.7475	6428.7	1.09257e+06
Jul., 1999	245.8	212960	8.54958	95.414	5116.2	1.09769e+06

Production Report

Group	:	waskadau6	Date	:	September 3, 2006 5:58:47 am
Well	:	wasu6	User	:	George
	:	000000001			

Production Data from November, 1982 to December, 2000 (cont.)

Year	Monthly Oil m3	Cum Oil m3	Avg Daily Oil m3/d	Water Cut %	Monthly Water m3	Cum Water m3
Aug., 1999	280.9	213241	9.44203	95.0094	5350.1	1.10304e+06
Sep., 1999	287.502	213528	9.74582	94.424	4870.7	1.10791e+06
Oct., 1999	291.601	213820	9.44458	95.1926	5776.6	1.11369e+06
Nov., 1999	275.399	214095	9.17997	95.9543	6534.6	1.12022e+06
Dec., 1999	282.998	214378	9.21568	96.108	6991.4	1.12721e+06
Jan., 2000	279.299	214658	9.02176	96.1501	6978.5	1.13419e+06
Feb., 2000	251.601	214909	8.70089	96.1181	6232.6	1.14042e+06
Mar., 2000	268.502	215178	8.66136	96.154	6715.8	1.14714e+06
Apr., 2000	262.101	215440	8.73671	96.2153	6666.1	1.15381e+06
May., 2000	266.201	215706	8.58714	96.292	6916	1.16072e+06
Jun., 2000	210.6	215917	7.86066	95.9782	5028.1	1.16575e+06
Jul., 2000	246.6	216163	7.99783	96.382	6572.2	1.17232e+06
Aug., 2000	228.799	216392	7.49136	95.5643	4931.5	1.17725e+06
Sep., 2000	228.999	216621	7.69744	96.1626	5741	1.18299e+06
Oct., 2000	242.7	216864	7.90339	95.3672	4998.2	1.18799e+06
Nov., 2000	240.304	217104	8.01012	96.0394	5829.6	1.19382e+06
Dec., 2000	235.702	217340	7.75973	96.1048	5817.9	1.19964e+06

APPENDIX B

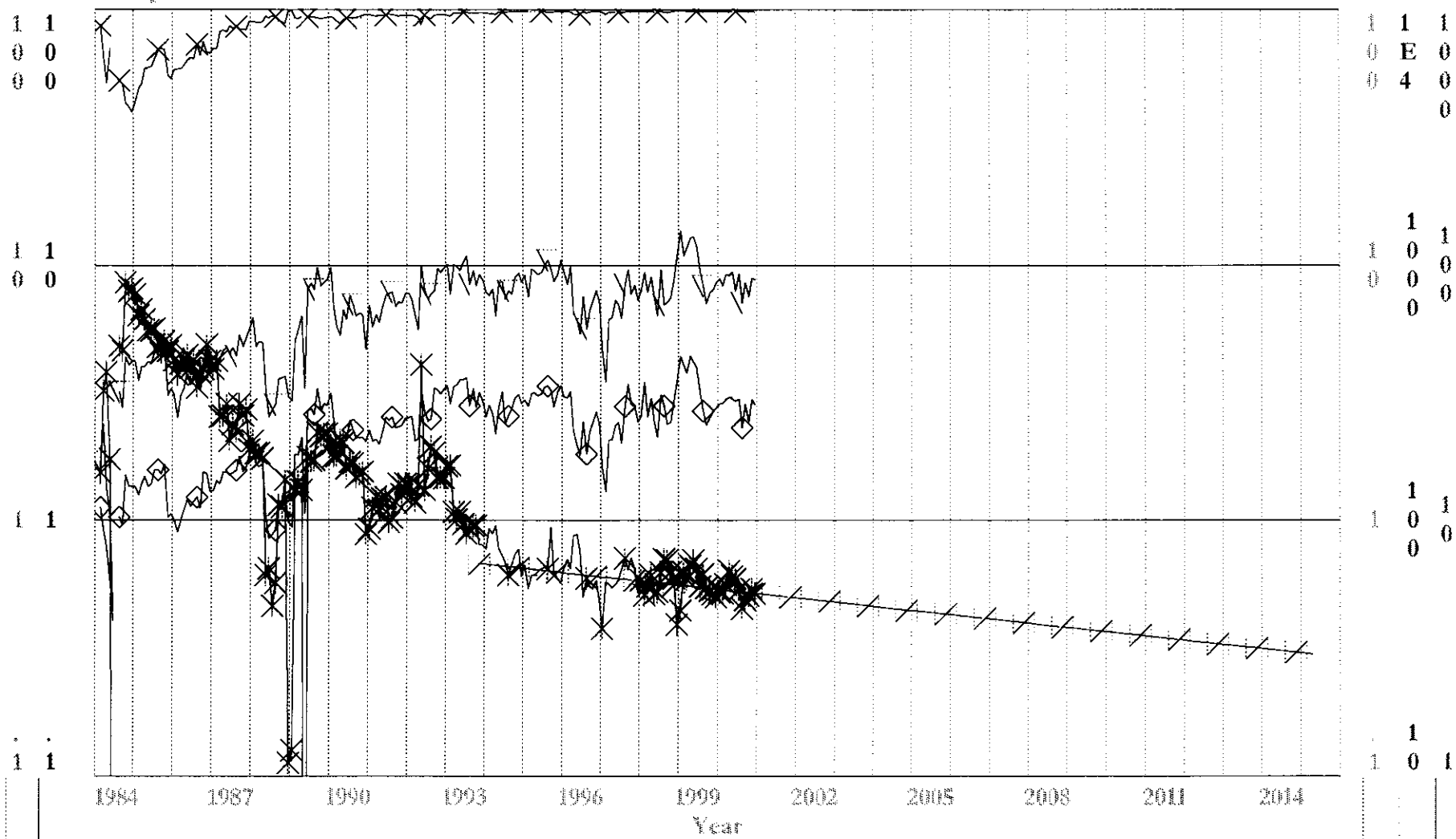
INDIVIDUAL WELL HISTORICAL PRODUCTION PLOTS
INDIVIDUAL WELL ULTIMATE RECOVERY PREDICTIONS

02/14-07-001-25W1/0 (Waskada Unit No. 6 14-07LAm-01-25W1) Data 02/84-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Avg Daily Oil FC 1 (Rate-Time)
qi: 0.677852 m3/d, Nov, 1993
qf: 0.209236 m3/d, Apr, 2015
di(Exp): 3.73183 CTD: 10191.9 m3
RR: 2036.98 m3 Tot: 12228.9 m3

Production Cums
Oil: 10191.9 m3
Gas: 0 E6m3
Water: 127775 m3
Cond: 0 m3



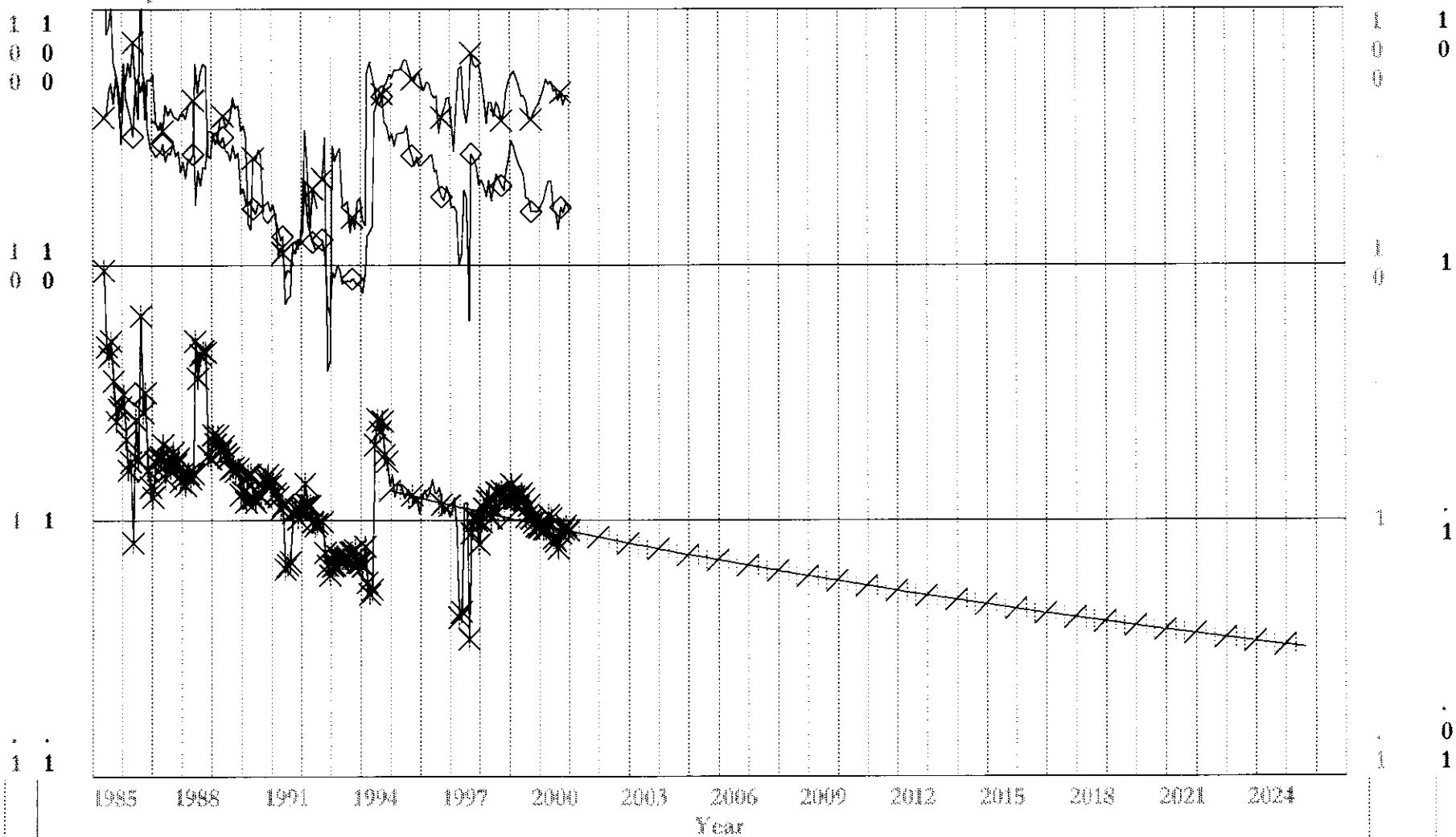
Avg Daily Oil - m3/d
Water Cut - %
Avg Daily Oil FC 1 - m3/d
Monthly Fluid - m3
Avg Daily Fluid - m3/d

00/16-07-001-25W1/0 (Waskada Unit No. 6 16-07-01-25W1) Data 05/85-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Avg Daily Oil FC 1 (Rate-Time)
qi: 1.31477 m3/d, Dec, 1994
qf: 0.317774 m3/d, Aug, 2025
di(Hyp): 6.401 CTD: 7853.61 m3
RR: 4602.86 m3 Tot: 12456.5 m3

Production Cums
Oil: 7853.61 m3
Gas: 0 E6m3
Water: 5530 m3
Cond: 0 m3



Avg Daily Oil FC 1 - m3/d

Avg Daily Oil - m3/d

Water Cut - %

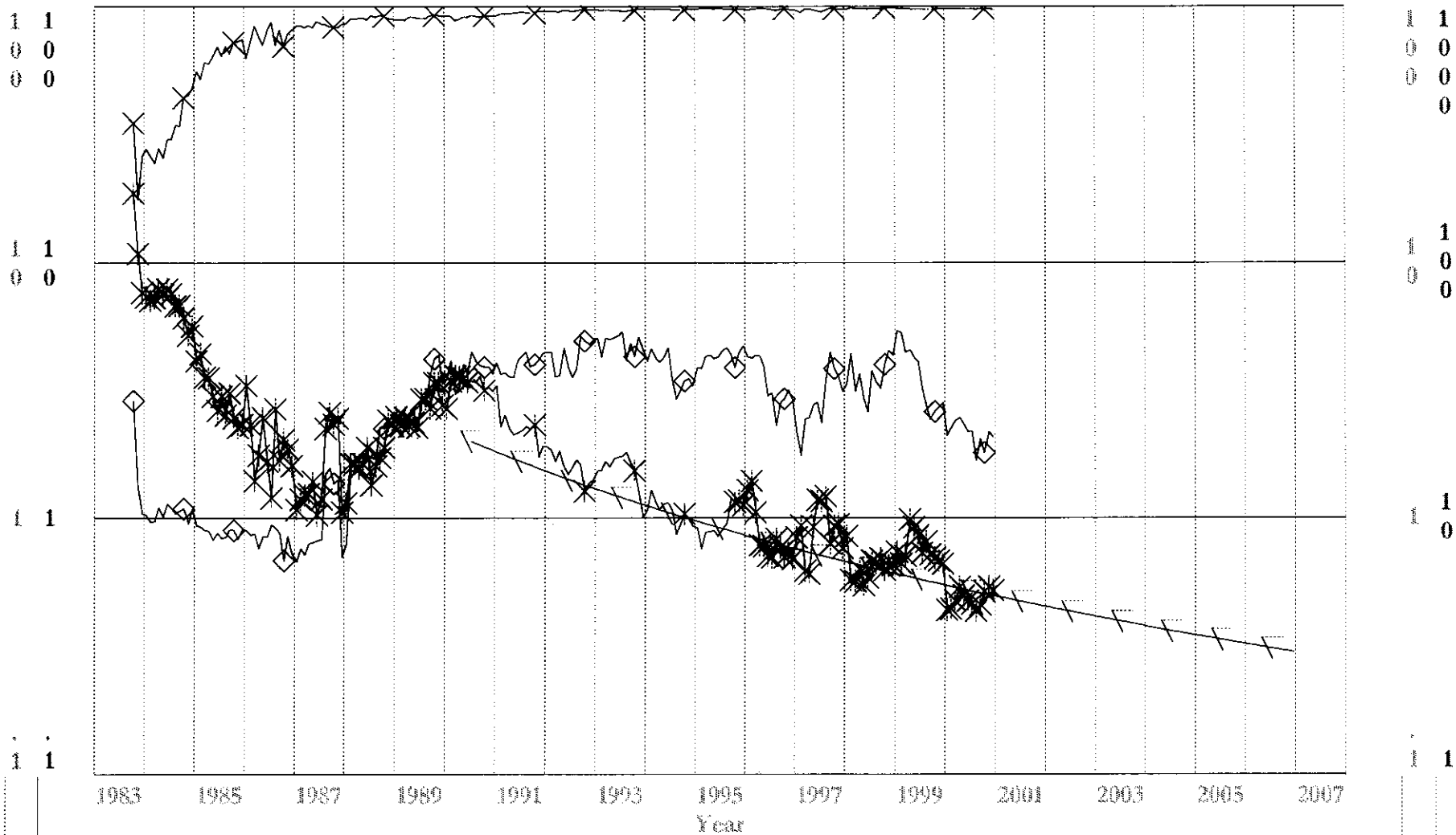
Avg Daily Fluid - m3/d

00/03-18-001-25W1/0 (Waskada Unit No. 6 03-18-01-25W1) Data 10/83-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Avg Daily Oil FC 1 (Rate-Time)
qi: 3.02226 m3/d, Jul, 1990
qf: 0.298792 m3/d, Dec, 2006
di(Hyp): 16.9125 CTD: 12424.6 m3
RR: 822.891 m3 Tot: 13247.5 m3

Production Cums
Oil: 12424.6 m3
Gas: 0 E6m3
Water: 164561 m3
Cond: 0 m3



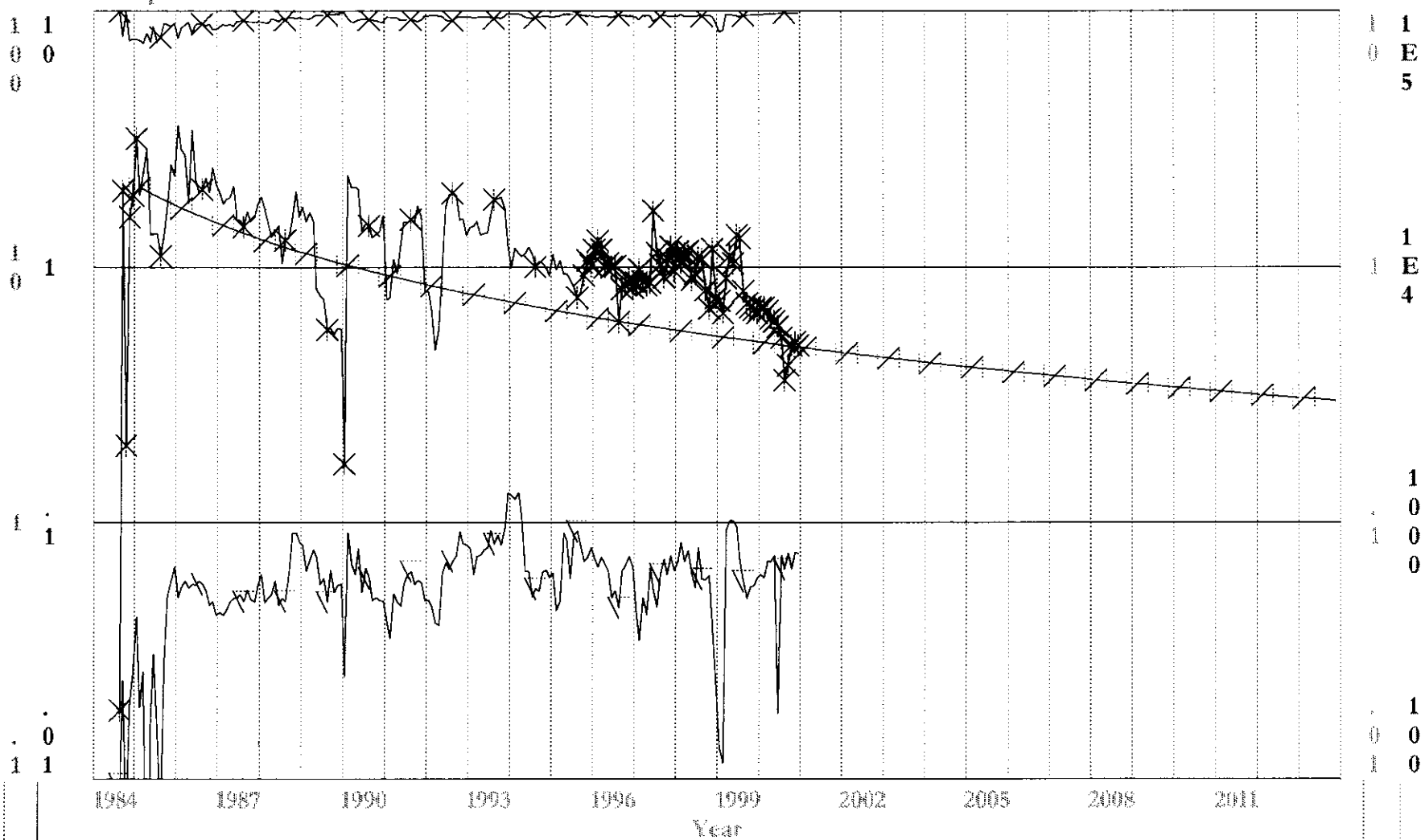
Avg Daily Oil - m3/d
Water Cut - %
Avg Daily Oil FC 1 - m3/d
Avg Daily Fluid - m3/d

00/08-01-001-26W1/2 (Waskada Unit No. 6 08-01-01-26W1) Data 08/84-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Avg Daily Oil FC 1 (Rate-Time)
qi: 2.08753 m3/d, Feb, 1985
qf: 0.299764 m3/d, Nov, 2013
di(Har): 17.139 CTD: 7412.8 m3
RR: 1720.11 m3 Toc: 9132.91 m3

Production Cums
Oil: 7412.8 m3
Gas: 0 E6m3
Water: 112132 m3
Cond: 0 m3



Avg Daily Oil - m3/d

Water Cut - %

Avg Daily Oil FC 1 - m3/d

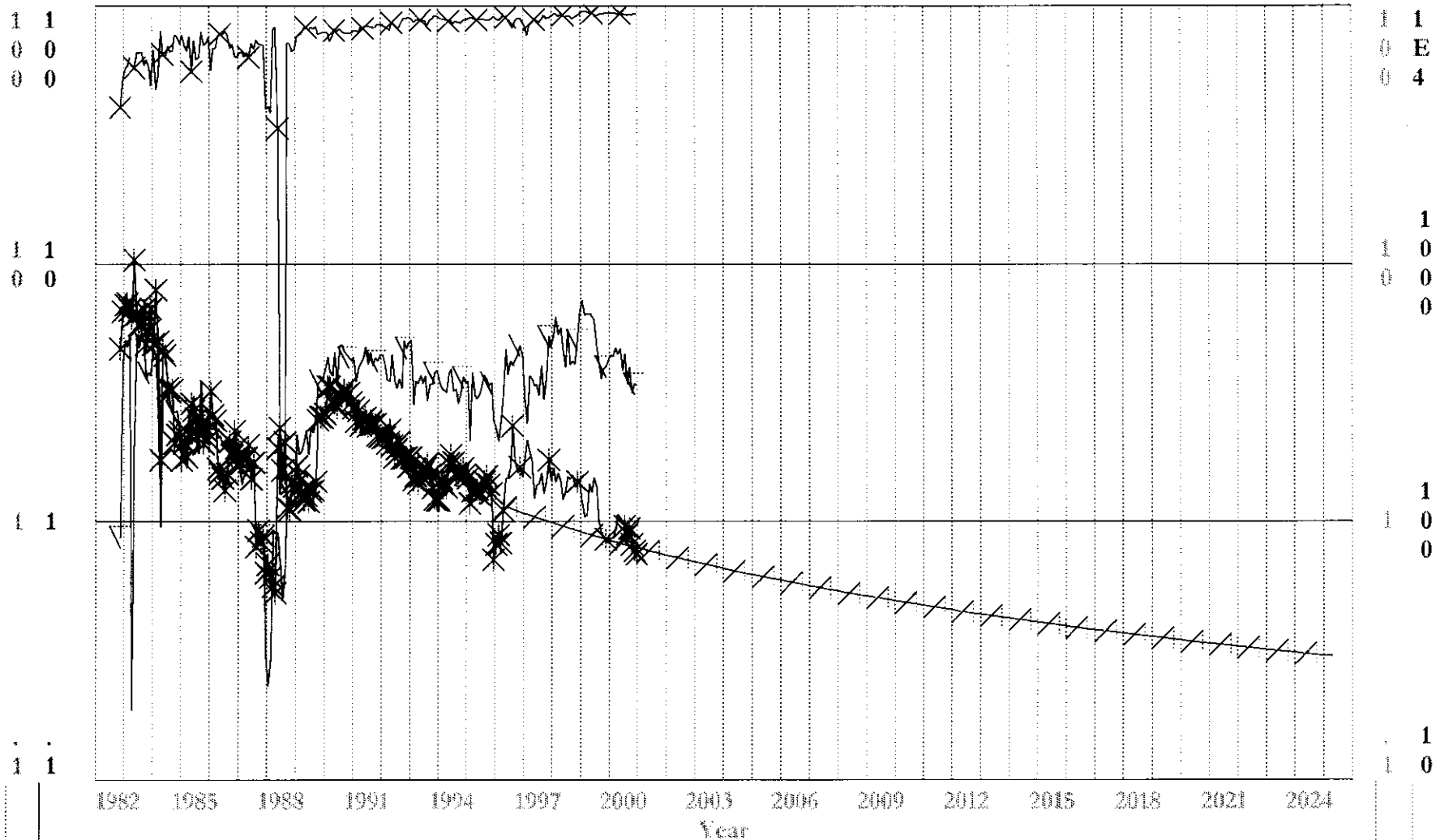
Monthly Fluid - m3

00/10-01-001-26W1/2 (Waskada Unit No. 6 10-01-01-26W1) Data 11/83-12/00

Operator:
Field: 5
Zone: 29A
Type: Unknown
Group: waskadau6

Avg Daily Oil FC 1 (Rate-Time)
qi: 1.14997 m3/d, May, 1996
qf: 0.299954 m3/d, Apr, 2025
di(Har): 8.93196 CUD: 12845 m3
RR: 4037.63 m3 Tot: 16882.6 m3

Production Cums
Oil: 12845 m3
Gas: 0 E6m3
Water: 60032.9 m3
Cond: 0 m3



Avg Daily Oil - m3/d

Water Cut - %

Avg Daily Oil FC 1 - m3/d

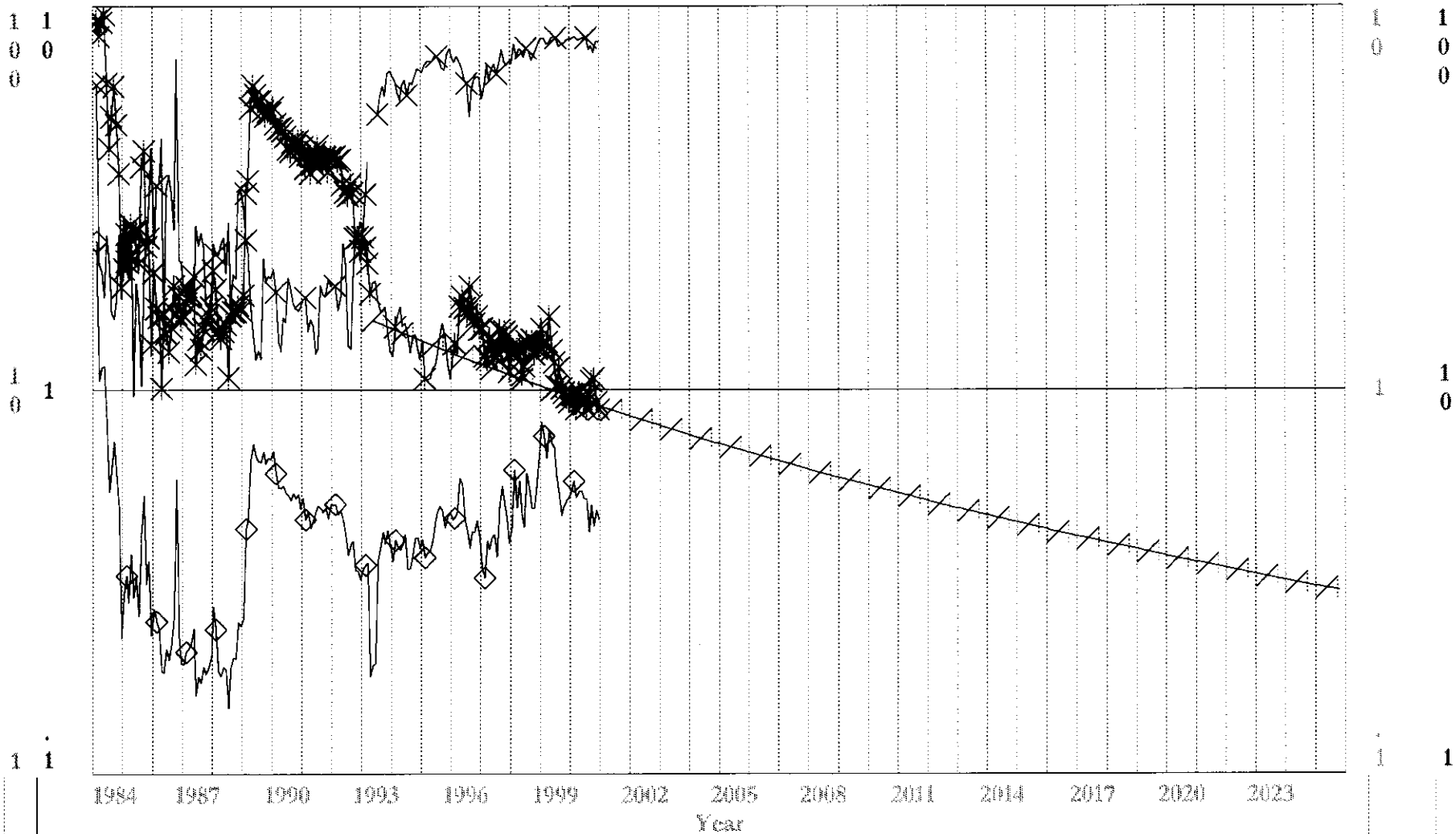
Monthly Fluid - m3

00/16-01-001-26W1/2 (Waskada Unit No. 6 16-01-01-26W1) Dura 02/84-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Avg Daily Oil FC 1 (Rate-Time)
qi: 1.53087 m3/d, May, 1993
qf: 0.299192 m3/d, Oct, 2025
di(Hyp): 7.33622 CTD: 14242.5 m3
RR: 4665.91 m3 Tot: 18908.4 m3

Production Cums
Oil: 14242.5 m3
Gas: 0 E6m3
Water: 12191.7 m3
Cond: 0 m3



Avg Daily Oil FC 1 - m3/d

Avg Daily Oil - m3/d

Water Cut - %

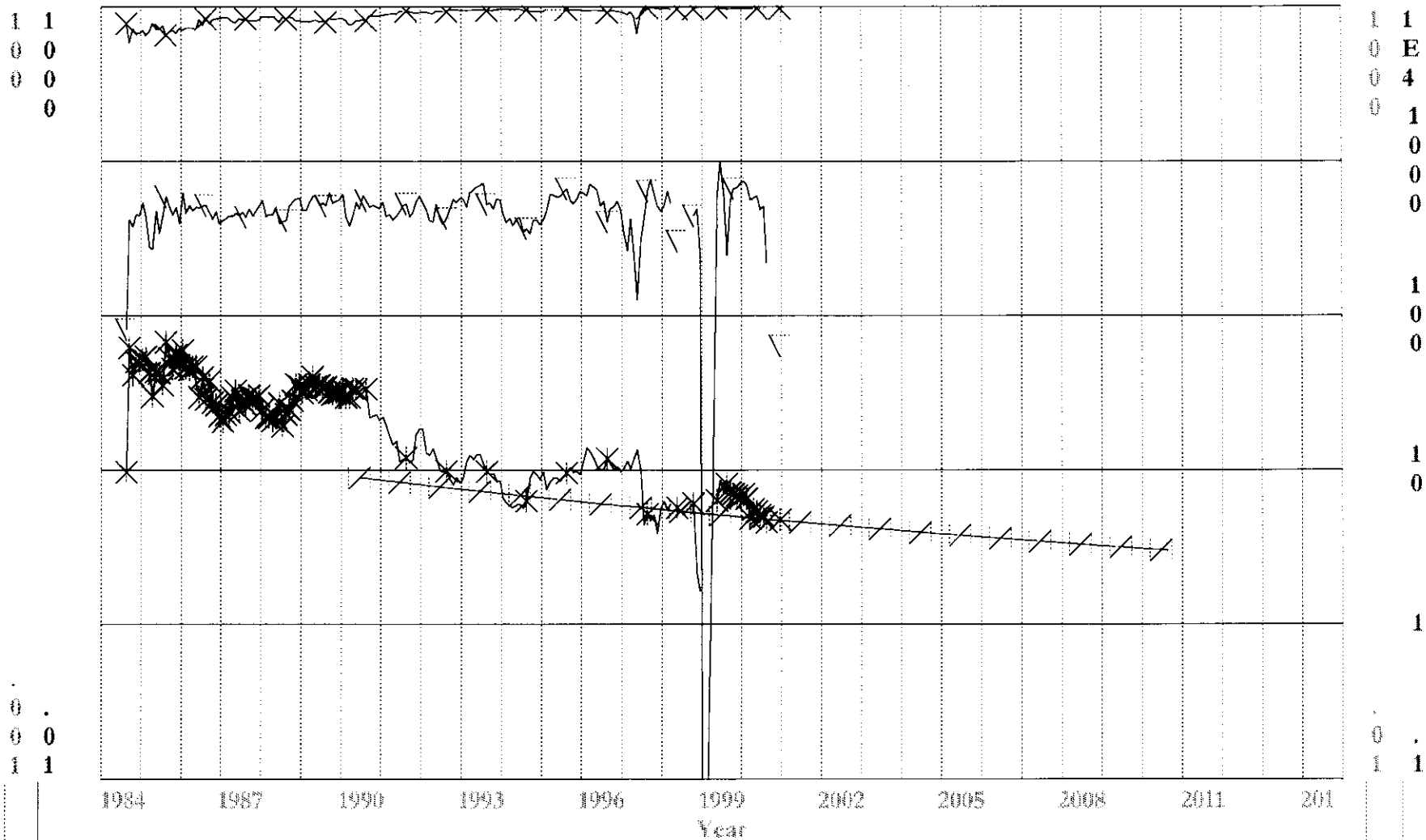
Avg Daily Fluid - m3/d

00/06-12-001-26W1/2 (Waskada Unit No. 6 Prov: 06-12-01-26W1) Date 08/84-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Avg Daily Oil FC 1 (Rate-Time)
qi: 0.89641 m3/d, Jun, 1990
qf: 0.299281 m3/d, Aug, 2010
di(Hyp): 6.84386 CTD: 10681.3 m3
RR: 1276.74 m3 Tot: 11958 m3

Production Cums
Oil: 10681.3 m3
Gas: 0 E6m3
Water: 81377.9 m3
Cond: 0 m3



Avg Daily Oil FC 1 - m3/d

Avg Daily Oil - m3/d

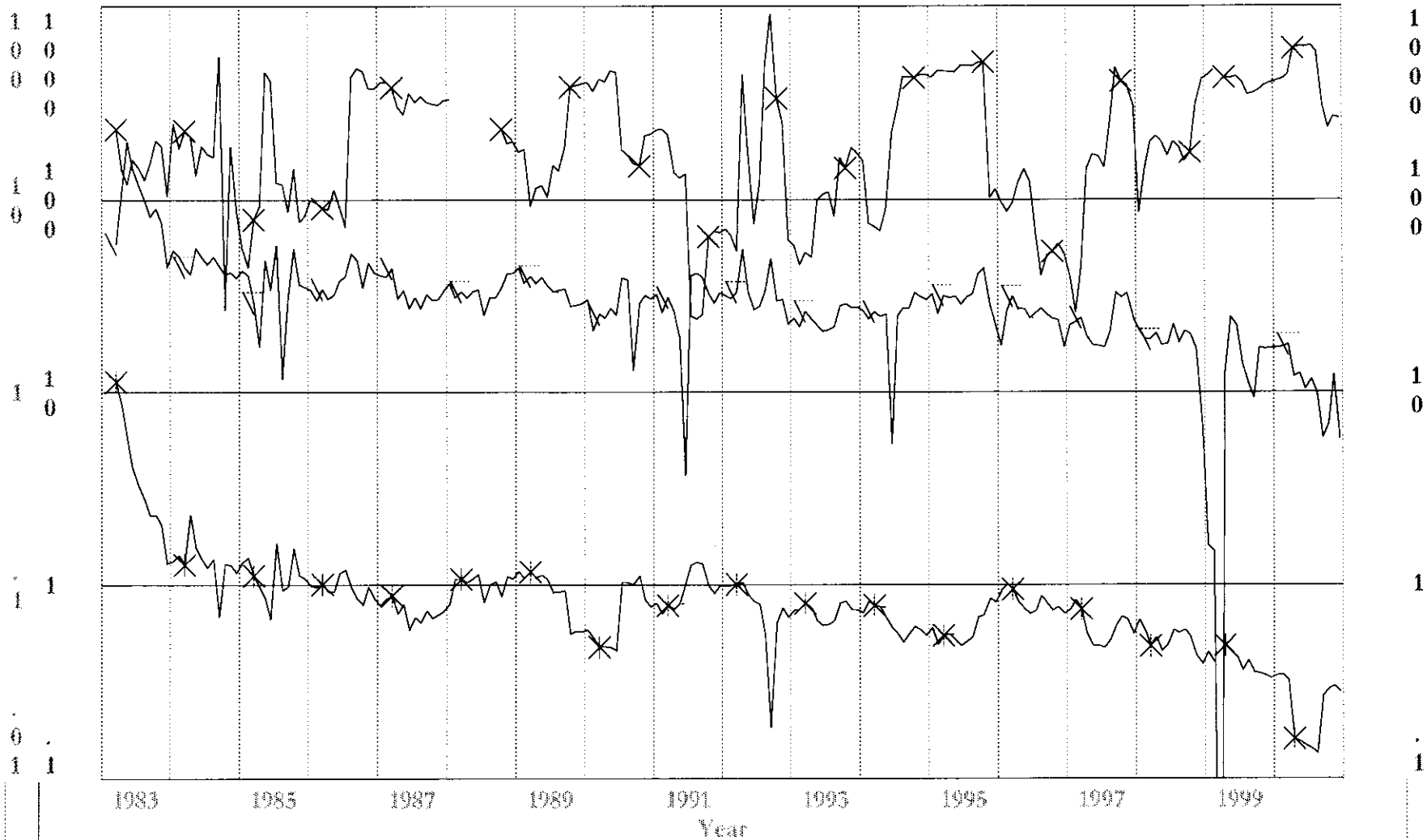
Water Cut - %

Monthly Fluid - m3

00/08-12-001-26W1/0 (Waskada Unit No. 6 08-12-01-26W1) Data 03/83-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskada06

Production Cums
Oil: 5374.41 m3
Gas: 0 E6m3
Water: 1500.8 m3
Cond: 0 m3



Avg Daily Oil - m3/d

Water Cut - %

Monthly Fluid - m3

02/09-12-001-26W1/0 (Waskada Unit No. 6 09-12LAm-01-26W1) Data 07/83-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Avg Daily Oil FC 1 (Rate-Time)
qi: 1.0498 m3/d, Nov, 1989
qf: 0.299427 m3/d, Aug, 2023
di(Exp): 3.63995 CTD: 24119.4 m3
RR: 3789.48 m3 Tot: 27908.9 m3

Production Cums
Oil: 24119.4 m3
Gas: 0 E6m3
Water: 121850 m3
Cond: 0 m3

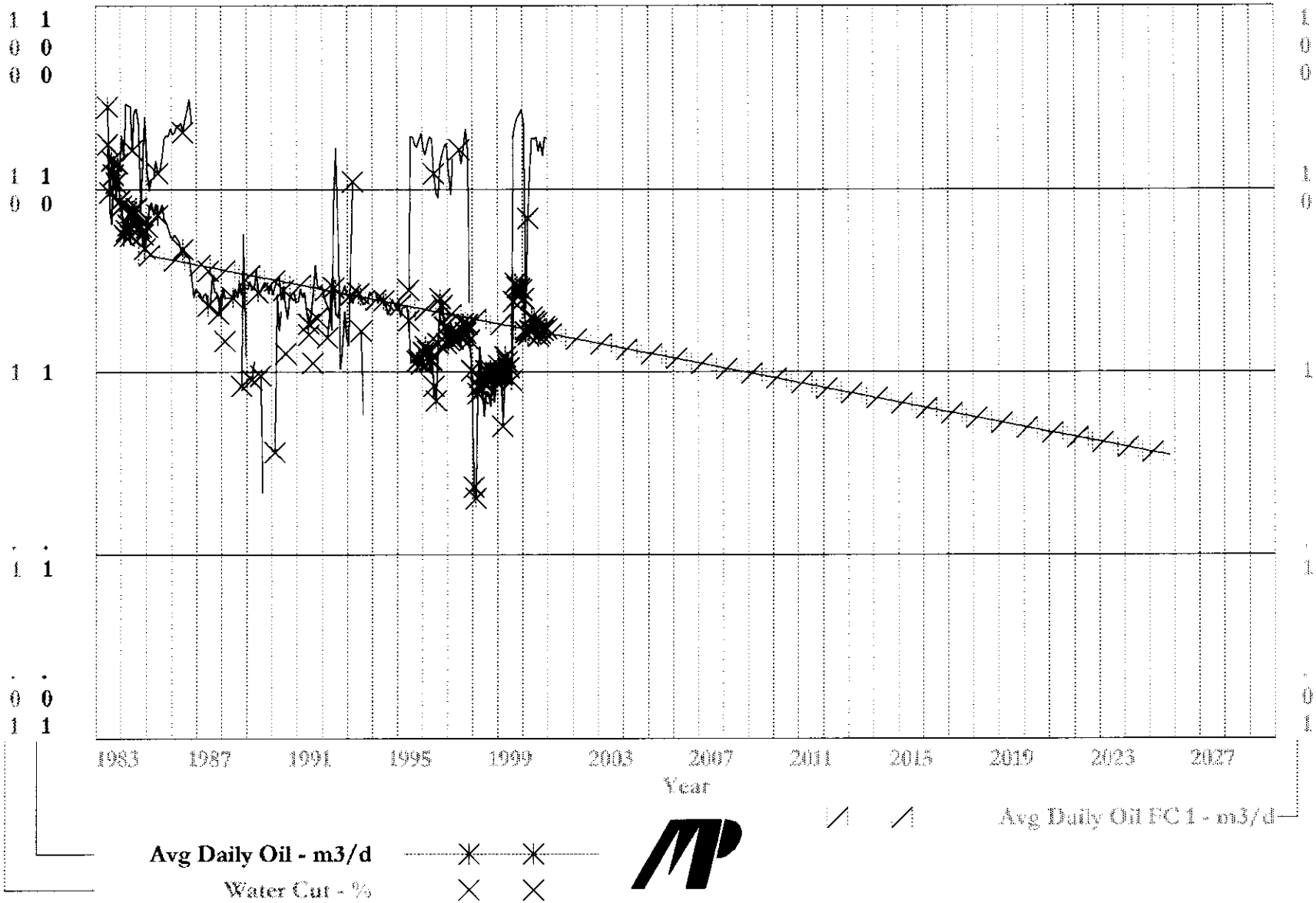
Avg Daily Oil - m3/d
Water Cut - %
Avg Daily Oil FC 1 - m3/d
Monthly Fluid - m3

00/10-12-001-26W1/0 (Waskada Unit No. 6 10-12-01-26W1) Data 06/83-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Avg Daily Oil FC 1 (Rate-Time)
qi: 4.37596 m3/d, Feb, 1986
qf: 0.349708 m3/d, Oct, 2025
di(Exp): 6.01237 CTD: 18440.3 m3
RR: 7134.83 m3 Tot: 25575.1 m3

Production Cums
Oil: 18440.3 m3
Gas: 0 E6m3
Water: 2192.6 m3
Cond: 0 m3

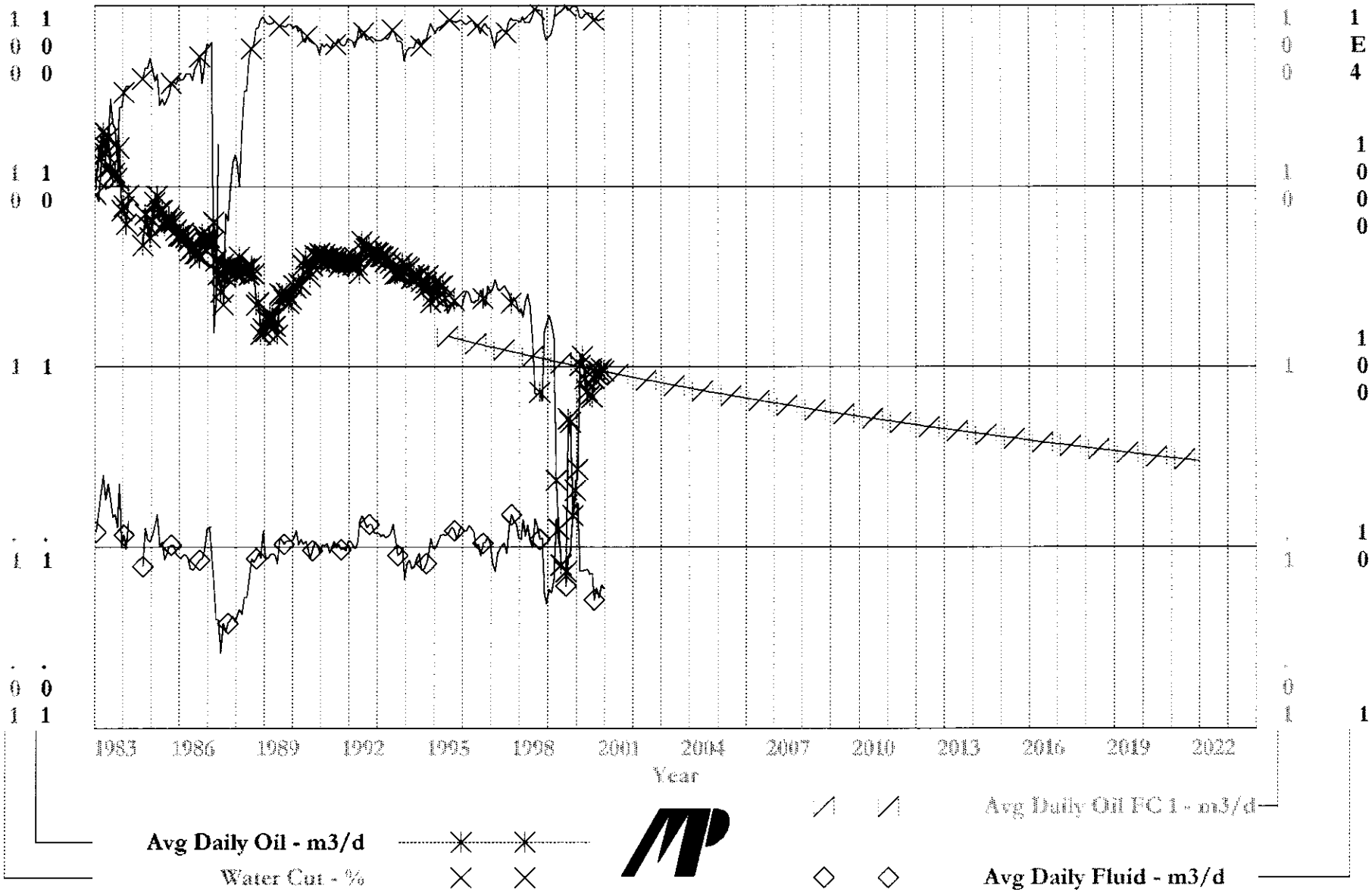


02/16-12-001-26W1/0 (Waskada Unit No. 6 16-12LAm-01-26W1) Data 01/83-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Avg Daily Oil FC 1 (Rate-Time)
qi: 1.49328 m3/d, Jun, 1995
qf: 0.299373 m3/d, Dec, 2021
di(Hyp): 8.67137 CTD: 23091.2 m3
RR: 3927.77 m3 Tot: 27019 m3

Production Cums
Oil: 23091.2 m3
Gas: 0 E6m3
Water: 38926.5 m3
Cond: 0 m3



APPENDIX C

2000 INDIVIDUAL WELL PRODUCTION DATA

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

WELL: 12070125W1 WASKADA 12-7-1-25 WPM (UNIT #6)

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	0.0	0.0	2767.4	2767.4	100.0	31	90.12				
02	0.0	0.0	2547.4	2547.4	100.0	29	88.61	0.0	70.56	24.0	6
03	0.0	0.0	2822.0	2822.0	100.0	31	92.15				
04	0.0	0.0	2824.5	2824.5	100.0	30	94.94	0.0	69.36	24.0	28
05	0.0	0.0	2927.6	2927.6	100.0	31	95.08				
06	0.0	0.0	2101.9	2101.9	100.0	24	86.38	0.0	69.6	24.0	12
07	0.0	0.0	2784.7	2784.7	100.0	31	90.93				
08	0.0	0.0	2136.2	2136.2	100.0	29	72.72	0.0	76.35	24.0	19
09	0.0	0.0	2713.7	2713.7	100.0	30	91.86				
10	0.0	0.0	2388.2	2388.2	100.0	31	78.09				
11	0.0	0.0	2787.0	2787.0	100.0	30	93.94	0.0	76.08	24.0	3
12	0.0	0.0	2759.0	2759.0	100.0	31	89.72				
	---	---	---	---	---	---	---				
	0.0	0.0	31559.6	31559.6	100.0	358	88.78				

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

WELL: 14070125W1 WASKADA 14-7-1-25 WPM (UNIT #6)

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	0.52	16.2	868.3	884.5	98.17	31	28.53				
02	0.52	15.0	817.6	832.6	98.2	29	28.88	0.52	22.34	24.0	11
03	0.56	17.4	904.3	921.7	98.11	31	29.73				
04	0.64	19.0	894.6	913.6	97.92	30	30.62	0.52	22.21	24.0	10
05	0.62	18.7	923.4	942.1	98.02	30	31.06				
06	0.6	15.9	775.6	791.5	97.99	27	29.68				
07	0.54	16.6	908.9	925.5	98.21	31	29.85	0.44	22.76	24.0	19
08	0.46	14.0	700.4	714.4	98.04	31	23.26				
09	0.49	14.6	838.7	853.3	98.29	30	28.44	0.46	23.66	24.0	15
10	0.52	15.7	737.0	752.7	97.91	30	24.71				
11	0.54	16.1	873.7	889.8	98.19	30	29.74				
12	0.52	16.0	861.5	877.5	98.18	31	28.42				
	---	---	---	---	---	---	---				
	0.54	195.2	10104.0	10299.2	98.1	361	28.56				

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

WELL: 16070125W1 WASKADA 16-7-1-25 WPM (UNIT #6)

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	0.99	30.3	22.5	52.8	42.61	31	1.72				
02	0.93	26.8	25.3	52.1	48.56	29	1.81	0.86	0.81	24.0	17
03	0.93	28.7	32.6	61.3	53.18	31	1.99				
04	1.05	31.4	32.6	64.0	50.94	30	2.15				
05	1.02	31.6	34.4	66.0	52.12	31	2.13				
06	0.85	23.0	21.2	44.2	47.96	27	1.64	0.75	0.6	24.0	1
07	0.83	25.6	24.3	49.9	48.7	31	1.61				
08	0.79	24.0	18.7	42.7	43.79	30	1.4	0.82	0.66	24.0	27
09	0.89	26.6	23.7	50.3	47.12	30	1.68				
10	0.93	28.7	20.9	49.6	42.14	31	1.6				
11	0.96	28.7	24.4	53.1	45.95	30	1.77				
12	0.93	27.4	23.0	50.4	45.63	30	1.71				
	---	---	---	---	---	---	---				
	0.93	332.8	303.6	636.4	47.71	361	1.77				

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

WELL: 03180125W1 WASKADA 3-18-1-25 WPM (UNIT #6)

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	0.44	13.5	639.3	652.8	97.93	31	21.17	0.44	18.0	24.0	1
02	0.44	12.8	639.7	652.5	98.04	29	22.63				
03	0.48	14.7	724.8	739.5	98.01	31	23.98				
04	0.54	16.1	723.8	739.9	97.82	30	24.8				
05	0.5	15.4	704.7	720.1	97.86	31	23.29	0.42	16.43	24.0	5
06	0.48	14.2	638.2	652.4	97.82	30	21.99				
07	0.46	14.3	663.9	678.2	97.89	31	21.94	0.42	16.44	24.0	13
08	0.44	13.4	506.6	520.0	97.42	31	16.91				
09	0.46	13.7	595.2	608.9	97.75	30	20.35	0.46	17.14	24.0	27
10	0.52	16.0	541.9	557.9	97.13	31	18.05				
11	0.54	16.1	633.0	649.1	97.52	30	21.7				
12	0.52	16.1	624.9	641.0	97.49	31	20.73				
	---	---	---	---	---	---	---				
	0.48	176.3	7636.0	7812.3	97.74	366	21.45				

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

WELL: 08010126W1 WASKADA 8-1-1-26 WPM (UNIT #6)

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	0.69	21.5	606.1	627.6	96.57	31	20.25				
02	0.7	19.5	585.6	605.1	96.78	28	21.61				
03	0.67	20.9	686.8	707.7	97.05	31	22.83	0.52	16.95	24.0	20
04	0.64	19.0	681.6	700.6	97.29	30	23.48				
05	0.62	19.1	720.3	739.4	97.42	31	23.85				
06	0.59	4.7	175.7	180.4	97.39	8	22.79				
07	0.53	16.4	727.5	743.9	97.8	31	24.0	0.35	20.86	24.0	24
08	0.36	11.2	644.7	655.9	98.29	31	21.27				
09	0.41	12.4	746.6	759.0	98.37	30	25.3	0.44	20.27	24.0	22
10	0.49	15.3	641.0	656.3	97.67	31	21.23				
11	0.51	15.3	748.6	763.9	98.0	30	25.53				
12	0.49	15.3	739.1	754.4	97.97	31	24.4				
	---	---	---	---	---	---	---				
	0.56	190.6	7703.6	7894.2	97.59	343	23.06				

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

WELL: 10010126W1 WASKADA 10-1-1-26 WPM (UNIT #6)

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	0.86	26.7	415.5	442.2	93.96	31	14.26				
02	0.86	24.9	413.5	438.4	94.32	29	15.2				
03	0.94	29.0	443.2	472.2	93.86	31	15.23	0.87	10.3	24.0	16
04	1.07	31.9	414.2	446.1	92.85	30	14.95				
05	1.03	32.0	437.7	469.7	93.19	31	15.15				
06	0.99	26.5	359.7	386.2	93.14	27	14.48				
07	0.96	29.7	417.1	446.8	93.35	31	14.41				
08	0.9	27.7	316.0	343.7	91.94	31	11.15	0.87	10.22	24.0	4
09	0.94	28.2	368.9	397.1	92.9	30	13.24				
10	0.82	25.3	289.6	314.9	91.97	31	10.19	0.66	8.66	24.0	11
11	0.77	23.0	319.9	342.9	93.29	30	11.46				
12	0.75	23.1	315.7	338.8	93.18	31	10.96				
	---	---	---	---	---	---	---				
	0.91	328.0	4511.0	4839.0	93.22	363	13.37				

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

WELL: 16010126W1 WASKADA 16-1-1-26 WPM (UNIT #6)

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	0.98	30.3	139.3	169.6	82.13	31	5.47				
02	0.97	28.2	139.4	167.6	83.17	29	5.78				
03	0.9	27.7	134.5	162.2	82.92	31	5.26	0.81	3.28	24.0	4
04	0.99	29.8	132.5	162.3	81.64	30	5.41				
05	0.96	29.8	139.4	169.2	82.39	31	5.46				
06	0.92	24.8	115.6	140.4	82.34	27	5.22				
07	0.89	27.7	132.9	160.6	82.75	31	5.18				
08	0.98	30.2	101.9	132.1	77.14	31	4.27	0.98	3.29	24.0	8
09	1.06	31.7	118.4	150.1	78.88	30	5.02				
10	1.07	33.3	103.8	137.1	75.71	31	4.42	0.8	3.19	24.0	27
11	0.93	27.9	117.7	145.6	80.84	30	4.87				
12	0.9	27.6	115.0	142.6	80.65	31	4.66				
	---	---	---	---	---	---	---				
	0.96	349.0	1490.4	1839.4	81.03	363	5.08				

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

WELL: 06120126W1 WASKADA 6-12-1-26 WPM (UNIT #6)

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	0.69	21.5	726.3	747.8	97.12	31	24.12				
02	0.66	18.9	681.4	700.3	97.3	29	24.29	0.45	13.63	24.0	25
03	0.49	15.0	548.8	563.8	97.34	31	18.29				
04	0.56	16.6	548.1	564.7	97.06	30	18.93				
05	0.54	16.6	579.2	595.8	97.21	31	19.22				
06	0.51	13.7	475.9	489.6	97.2	27	18.36				
07	0.5	13.9	498.5	512.4	97.29	28	18.3				
08	0.47	7.3	213.9	221.2	96.7	16	14.12				
09	SHUT IN										
10	SHUT IN										
11	SHUT IN										
12	0.5	1.9	61.5	63.4	97.0	4	16.54				
	---	---	---	---	---	---	---				
	0.56	125.4	4333.6	4459.0	97.19	227	19.76				

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

WELL: 08120126W1 WASKADA 8-12-1-26 WPM (UNIT #6)

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	0.34	10.2	6.8	17.0	40.0	30	0.57				
02	0.34	10.0	7.2	17.2	41.86	29	0.59				
03	0.32	9.9	7.8	17.7	44.07	31	0.58	0.13	0.18	24.0	25
04	0.16	4.8	7.3	12.1	60.33	30	0.4				
05	0.15	4.8	7.7	12.5	61.6	31	0.4				
06	0.15	4.0	6.4	10.4	61.54	27	0.39				
07	0.14	4.4	7.3	11.7	62.39	31	0.38				
08	0.14	4.2	5.7	9.9	57.58	31	0.32				
09	0.27	4.0	1.8	5.8	31.03	15	0.39	0.26	0.09	24.0	2
10	0.29	5.2	1.6	6.8	23.53	18	0.38				
11	0.3	9.0	3.3	12.3	26.83	30	0.41				
12	0.3	4.2	1.5	5.7	26.32	14	0.4				
	---	---	---	---	---	---	---				
	0.24	74.7	64.4	139.1	46.3	317	0.44				

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

WELL: 09120126W1 WASKADA 9-12-1-26 WPM (UNIT #6)

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	0.71	22.1	228.0	250.1	91.16	31	8.07	0.61	5.37	24.0	27
02	0.61	17.7	190.9	208.6	91.51	29	7.23				
03	0.65	20.2	212.6	232.8	91.32	31	7.51	0.59	4.91	24.0	24
04	0.58	17.2	201.5	218.7	92.14	30	7.33	0.36	5.1	24.0	15
05	0.43	13.3	216.6	229.9	94.21	31	7.42				
06	0.51	13.6	173.1	186.7	92.72	27	7.0	0.55	4.78	24.0	16
07	0.63	19.4	193.4	212.8	90.88	31	6.86	0.67	4.74	24.0	27
08	0.69	21.3	146.5	167.8	87.31	31	5.44				
09	0.73	21.8	171.1	192.9	88.7	30	6.43				
10	0.69	21.2	130.9	152.1	86.06	31	4.92	0.61	4.14	24.0	1
11	0.71	21.3	153.0	174.3	87.78	30	5.83				
12	0.69	21.2	149.8	171.0	87.6	31	5.58				
	---	---	---	---	---	---	---				
	0.64	230.3	2167.4	2397.7	90.39	363	6.63				

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

WELL: 10120126W1 WASKADA 10-12-1-26 WPM (UNIT #6)

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	2.54	78.6	23.4	102.0	22.94	31	3.29	1.65	0.03	24.0	22
02	1.66	48.1	1.1	49.2	2.24	29	1.7				
03	1.61	49.7	3.7	53.4	6.93	31	1.73	1.31	0.15	24.0	17
04	1.68	50.5	7.4	57.9	12.78	30	1.93	1.69	0.34	24.0	26
05	2.0	62.1	14.6	76.7	19.04	31	2.47				
06	1.93	51.4	11.9	63.3	18.8	27	2.37				
07	1.86	57.5	13.6	71.1	19.13	31	2.3				
08	1.58	48.9	9.4	58.3	16.12	31	1.89	1.51	0.3	24.0	4
09	1.63	48.8	10.8	59.6	18.12	30	1.99				
10	1.7	52.7	9.5	62.2	15.27	31	2.01				
11	1.79	53.6	12.7	66.3	19.16	30	2.22	1.54	0.35	24.0	4
12	1.74	53.5	12.6	66.1	19.06	31	2.16				
	---	---	---	---	---	---	---				
	1.81	655.4	130.7	786.1	16.63	363	2.17				

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

WELL: 16120126W1 WASKADA 16-12-1-26 WPM (UNIT #6)

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	0.27	8.4	535.6	544.0	98.46	31	17.55				
02	1.03	29.7	183.5	213.2	86.07	29	7.39	1.05	4.81	24.0	2
03	1.14	35.3	194.7	230.0	84.65	31	7.42				
04	0.86	25.8	198.0	223.8	88.47	30	7.5	0.62	4.95	24.0	7
05	0.74	22.8	210.4	233.2	90.22	31	7.52				
06	0.71	18.8	172.9	191.7	90.19	27	7.19				
07	0.68	21.1	200.1	221.2	90.46	31	7.15				
08	0.86	26.6	131.5	158.1	83.18	31	5.13	0.84	4.23	24.0	2
09	0.91	27.2	152.1	179.3	84.83	30	6.0				
10	0.95	29.3	133.8	163.1	82.04	31	5.28				
11	0.98	29.3	156.3	185.6	84.21	30	6.2				
12	0.95	29.4	154.3	183.7	84.0	31	5.94				
	0.84	303.7	2423.2	2726.9	88.86	363	7.54				

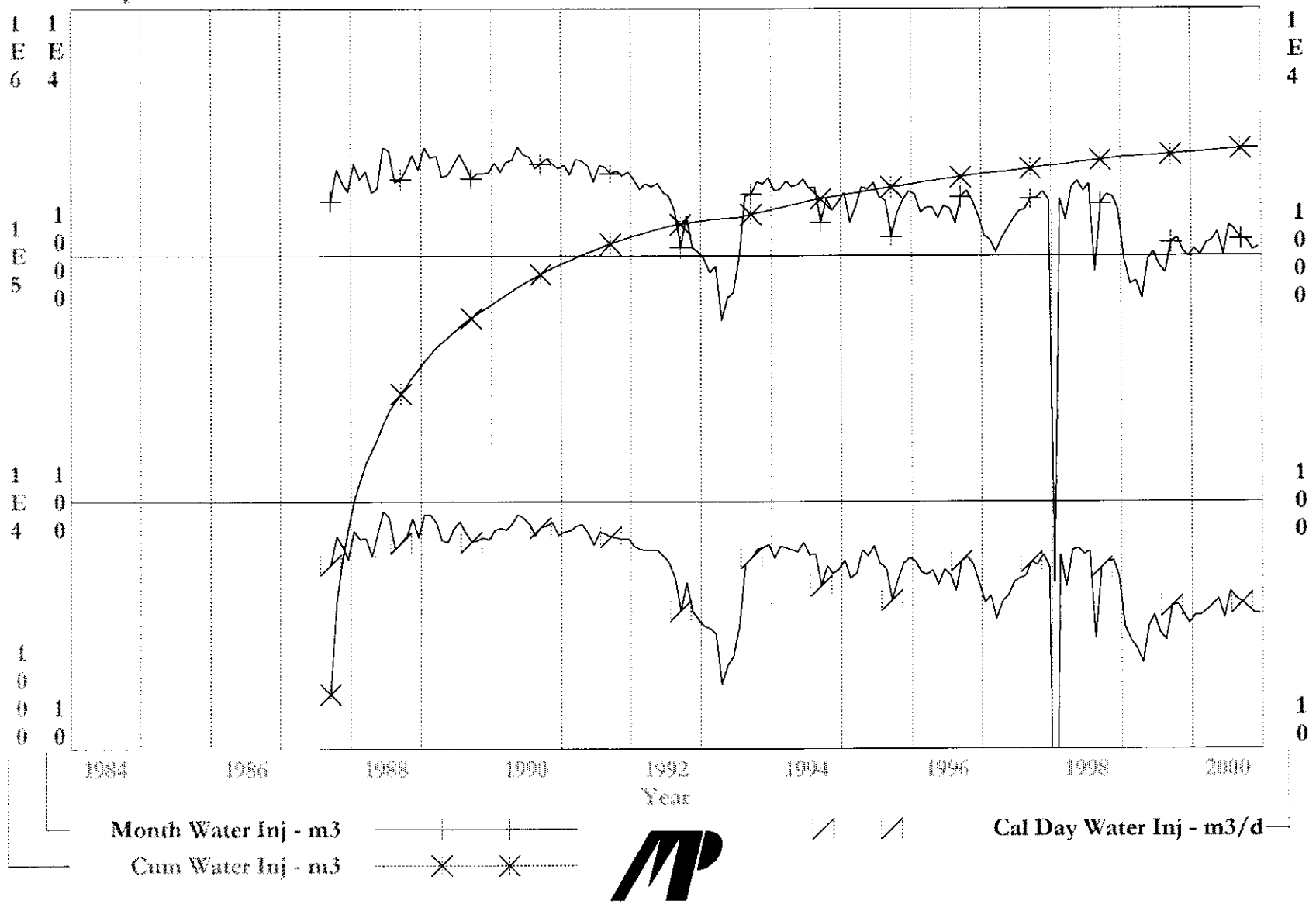
APPENDIX D

INDIVIDUAL WELL INJECTION PLOTS

00/13-06-001-25W1/0 (Waskada Unit No. 6 WDW 13-06-01-25W1) Data 04/84-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

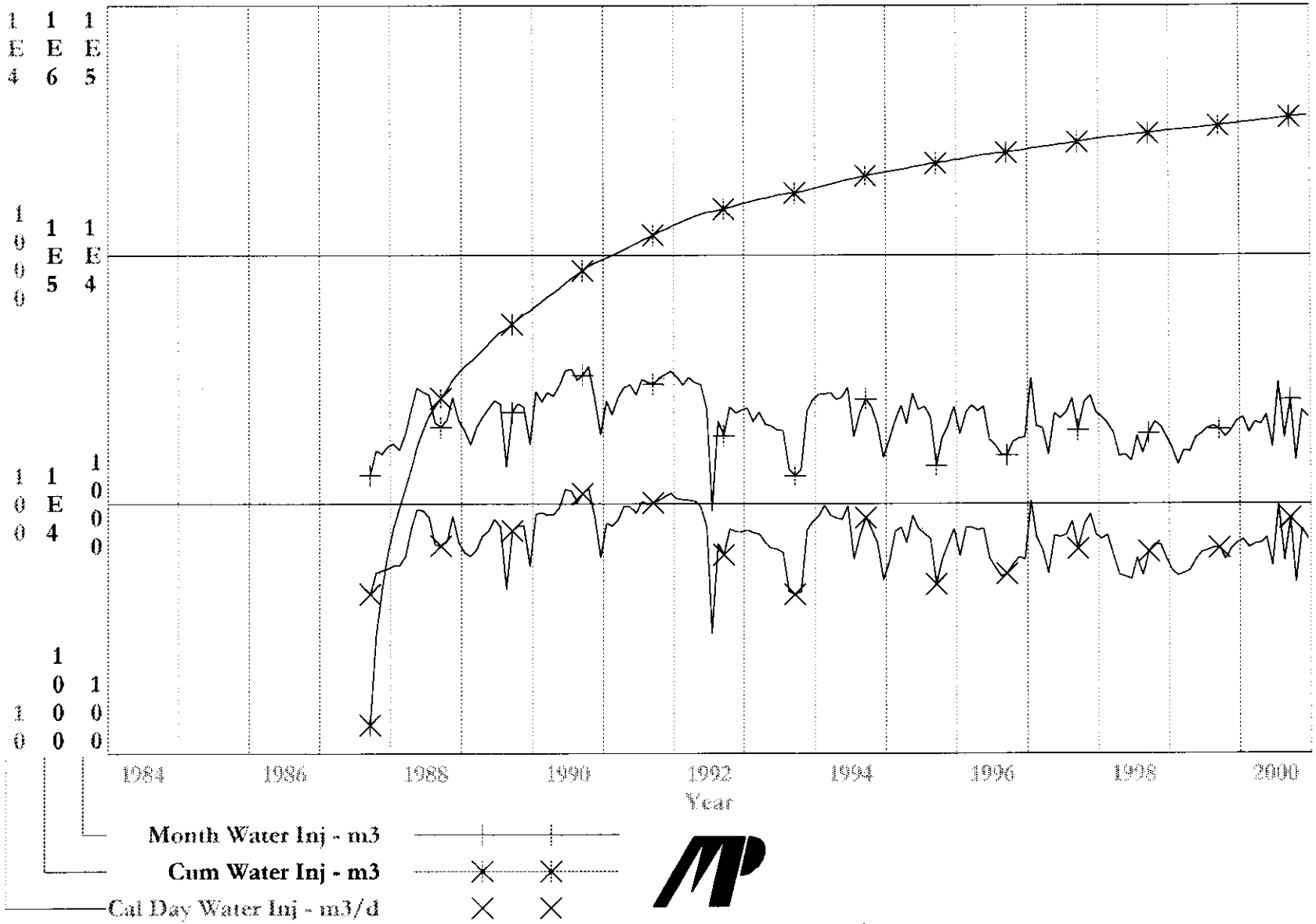
Production Cums
Oil: 34.2006 m3
Gas: 0 E6m3
Water: 942.001 m3
Cond: 0 m3



02/13-07-001-25W1/0 (Waskada Unit No. 6 WIW 13-07LAm-01-25W1) Data 02/84-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskada06

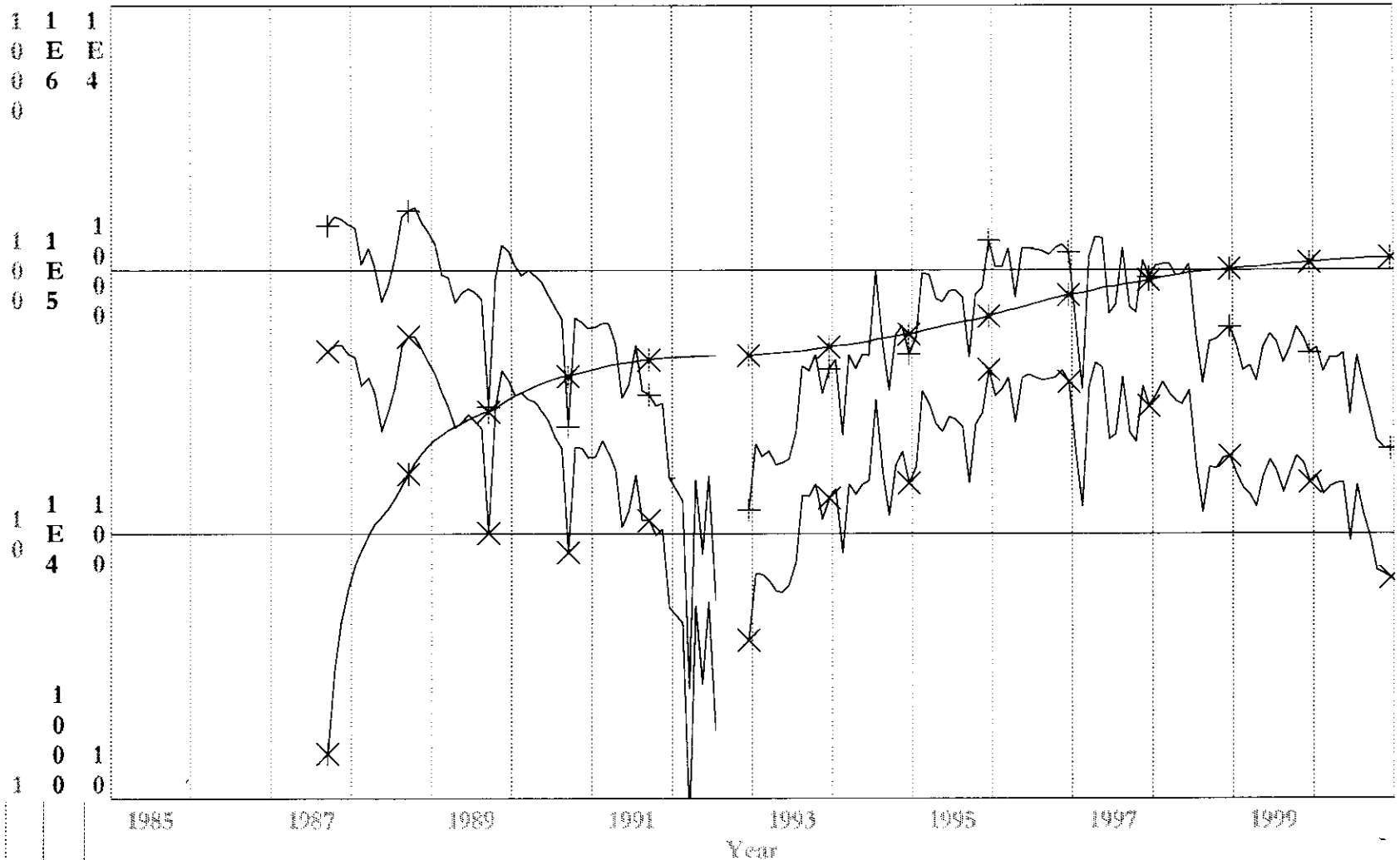
Production Cums
Oil: 2360.4 m3
Gas: 0 E6m3
Water: 12143.8 m3
Cond: 0 m3



00/15-07-001-25W1/0 (Waskada Unit No. 6 WIW 15-07-01-25W1) Data 01/85-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

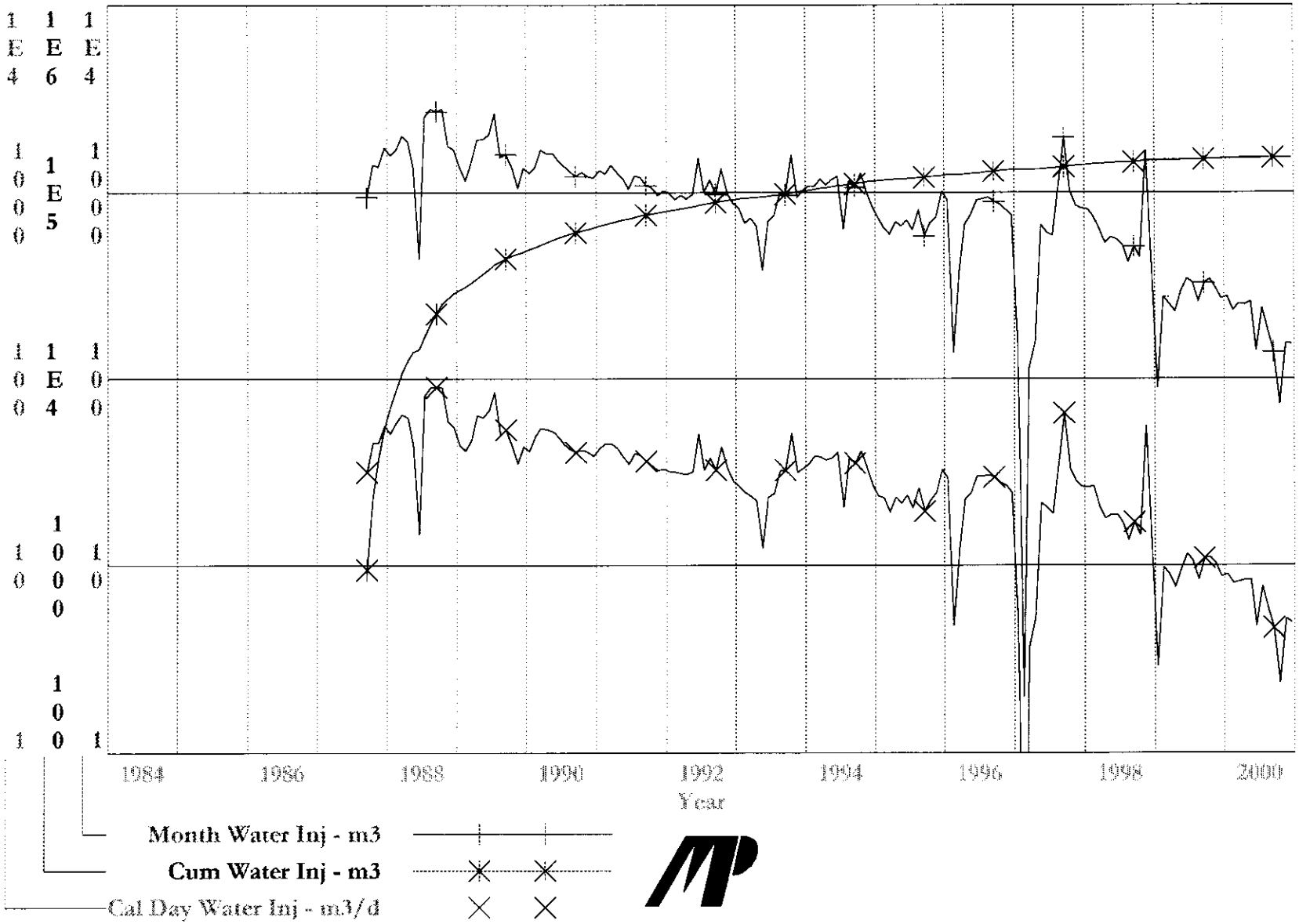
Production Cums
Oil: 1450.5 m3
Gas: 0 E6m3
Water: 923.903 m3
Cond: 0 m3



00/07-01-001-26W1/0 (Waskada Unit No. 6 WTW 07-01-01-26W1) Data 09/84-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

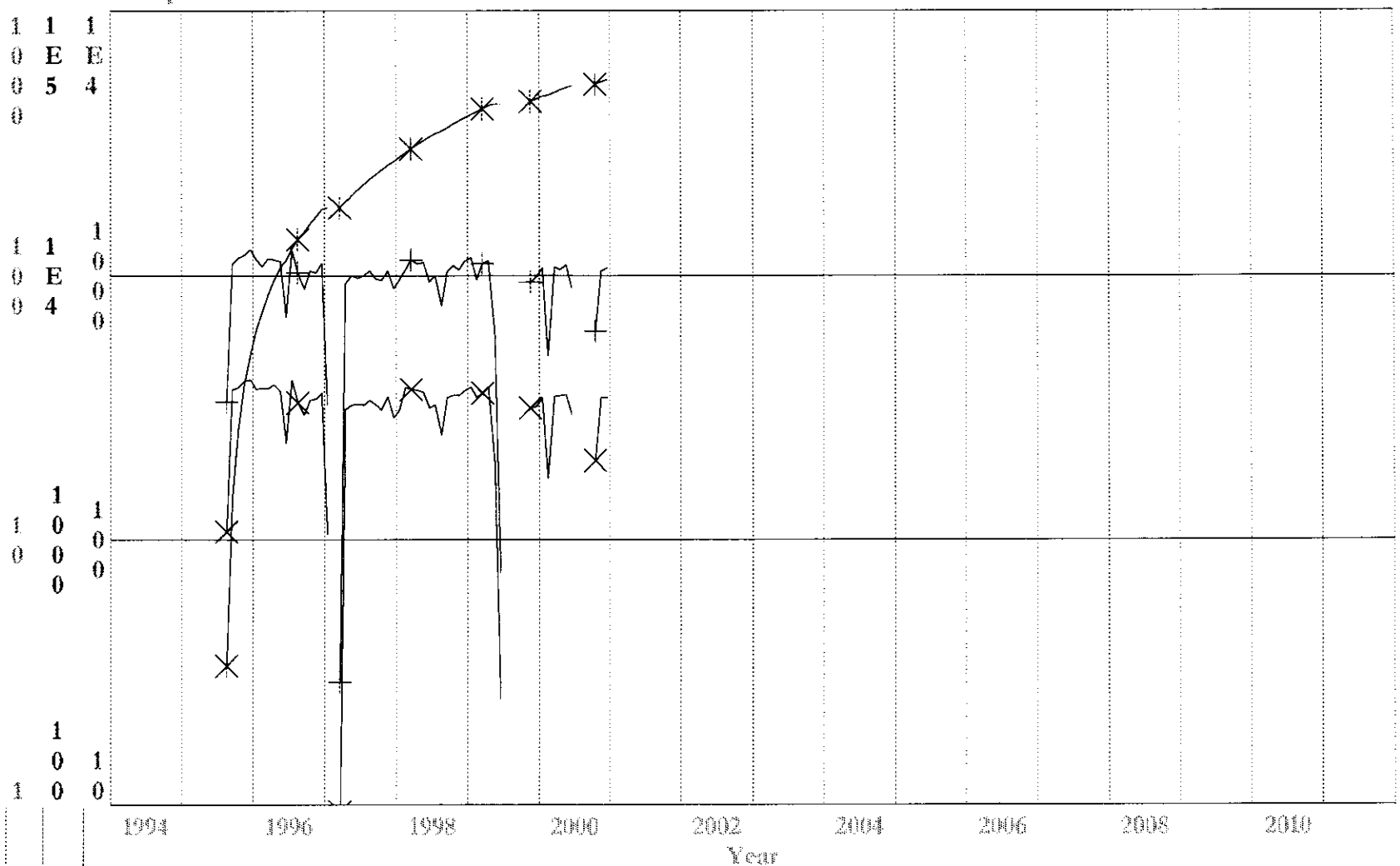
Production Cums
Oil: 98.4018 m3
Gas: 0 E6m3
Water: 1576 m3
Cond: 0 m3



00/09-01-001-26W1/0 (Waskada Unit No. 6 WIW 09-01-01-26W1) Data 01/83-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Production Cums
Oil: 3896.5 m3
Gas: 0 E6m3
Water: 2034 m3
Cond: 0 m3

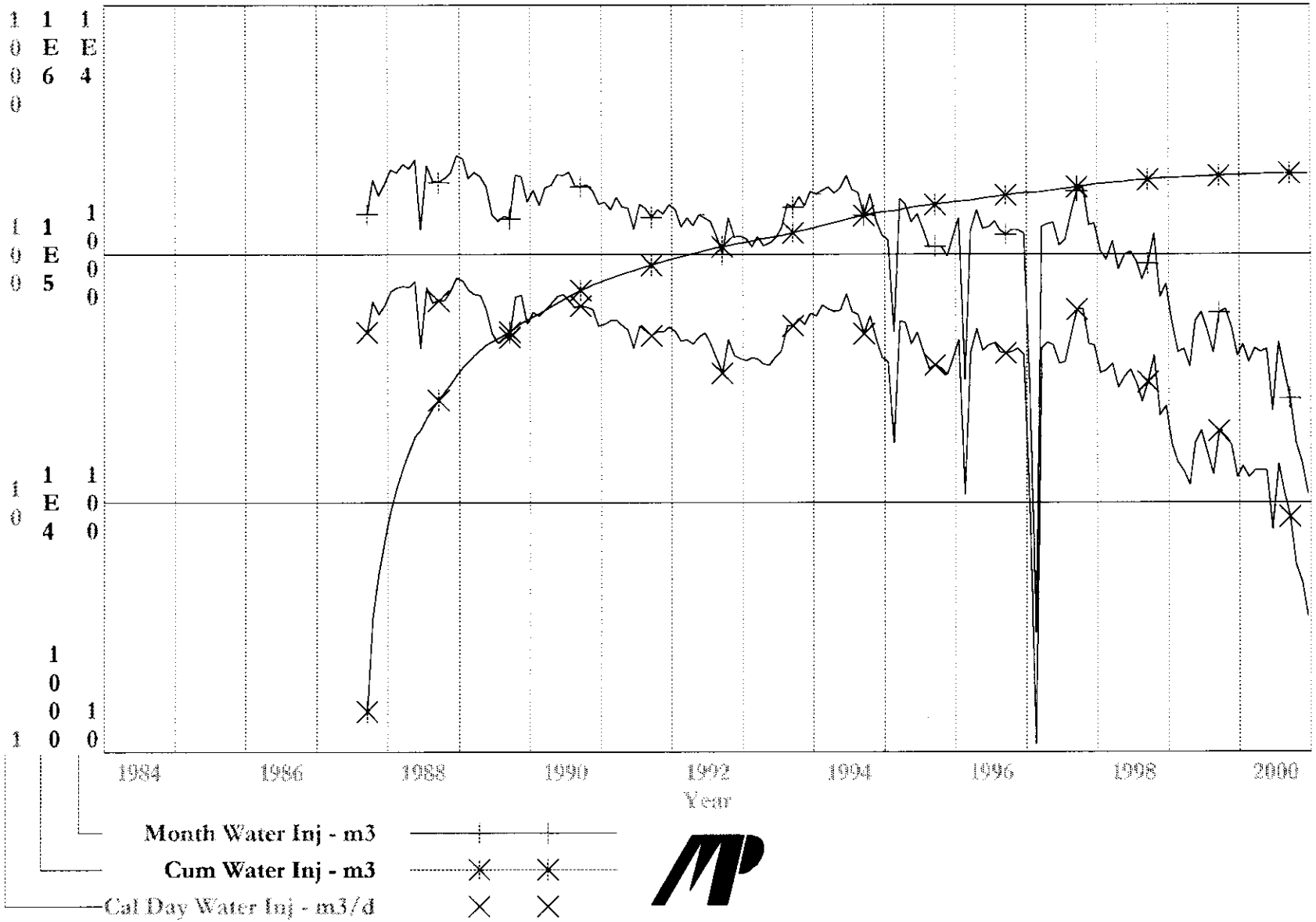


Month Water Inj - m3
Cum Water Inj - m3
Cal Day Water Inj - m3/d

00/15-01-001-26W1/2 (Waskada Unit No. 6 WIW 15-01-01-26W1) Data 08/84-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

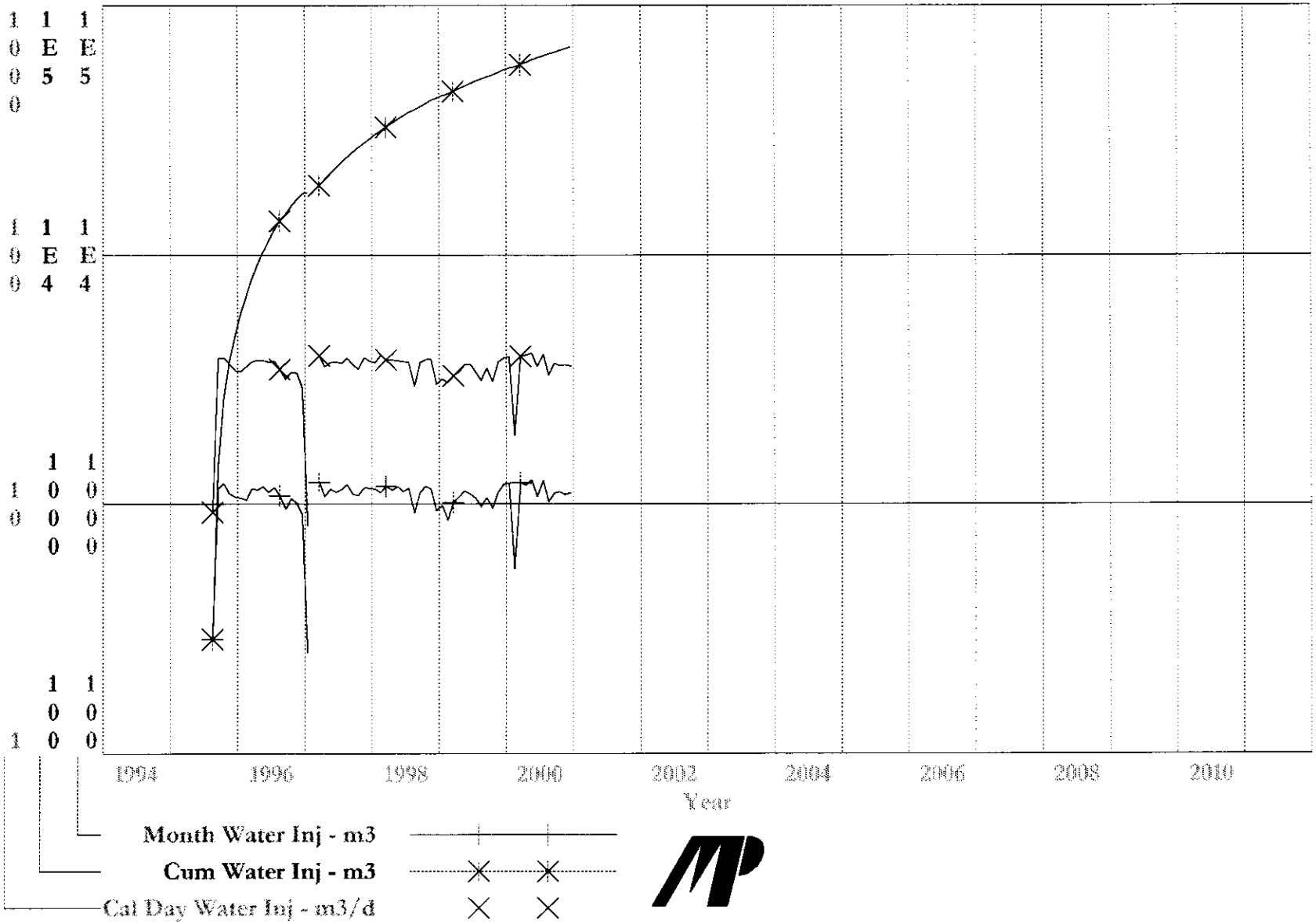
Production Cums
Oil: 2493.9 m3
Gas: 0 E6m3
Water: 11767.5 m3
Cond: 0 m3



00/01-12-001-26W1/0 (Waskada Unit No. 6 WIW 01-12-01-26W1) Data 10/83-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

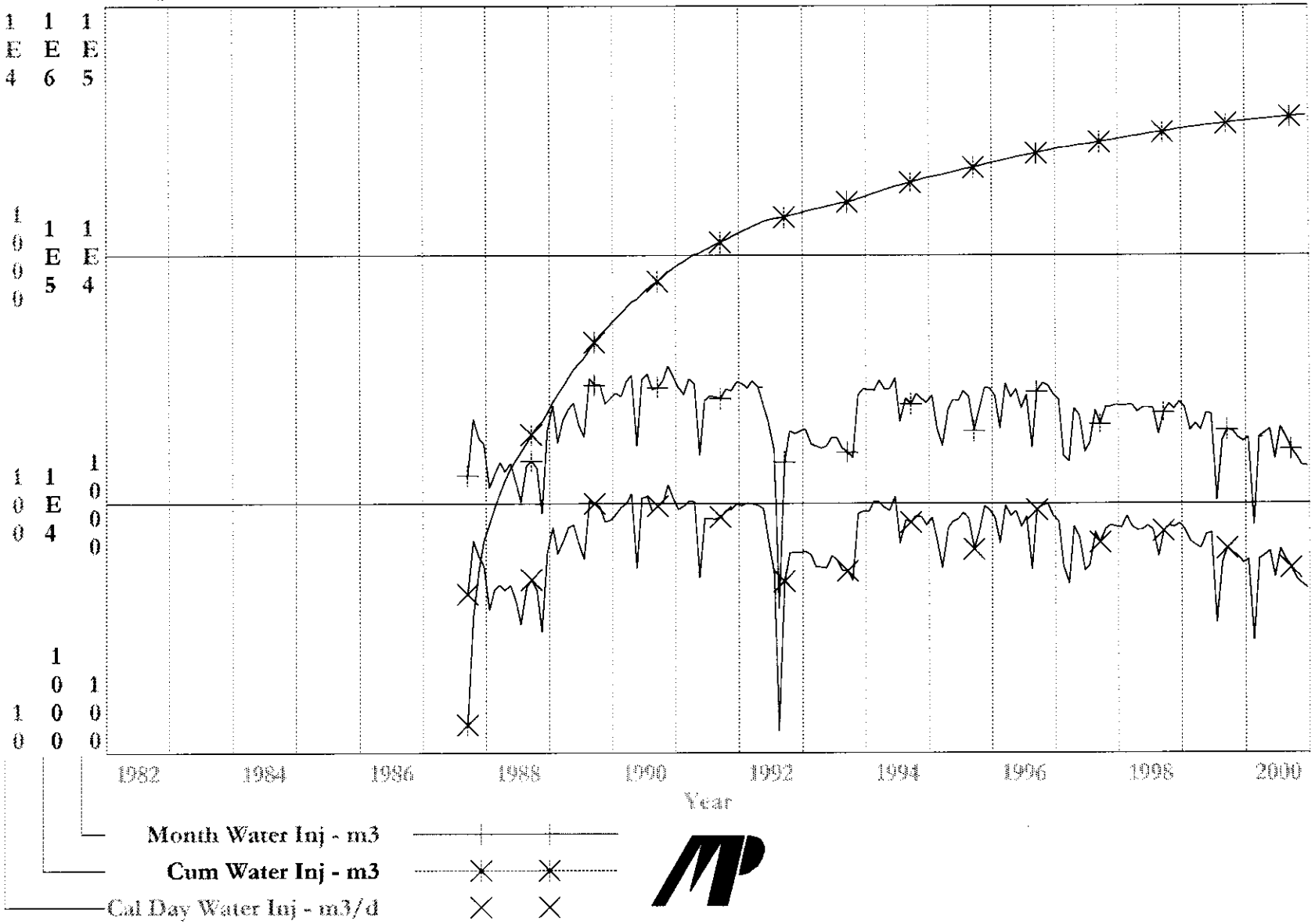
Production Cums
Oil: 7143.7 m3
Gas: 0.E6m3
Water: 2449 m3
Cond: 0 m3



00/15-12-001-26W1/0 (Waskada Unit No. 6 WIW 15-12-01-26W1) Data 11/82-12/00

Operator:
Field: 3
Zone: 29A
Type: Unknown
Group: waskadau6

Production Cums
Oil: 5834.5 m3
Gas: 0 E6m3
Water: 2515.3 m3
Cond: 0 m3



APPENDIX E

INDIVIDUAL WELL INJECTION DATA

Production Report

Group	:	waskadau6	Date	:	September 2, 2006 12:06:31 pm
Well	:	Waskada Unit No. 6 WIW 13-06-01-25W1	User	:	George
	:	00/13-06-001-25W1/0			
Hist.Data	:	04/84-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	3	Zone	:	29A

Production Data from January, 2000 to December, 2000

Year	Month Water Inj m3	Cum Water Inj m3	Cal Day Water Inj m3/d
Jan., 2000	1068	261213	34.4516
Feb., 2000	1006	262219	34.6897
Mar., 2000	1124	263343	36.2581
Apr., 2000	1152	264495	38.4
May., 2000	1242	265737	40.0645
Jun., 2000	1008	266745	33.6
Jul., 2000	1335	268080	43.0645
Aug., 2000	1253	269333	40.4193
Sep., 2000	1164	270497	38.8
Oct., 2000	1156	271653	37.2903
Nov., 2000	1052	272705	35.0666
Dec., 2000	1081	273786	34.871

Production Report

Group	:	waskadau6	Date	:	September 3, 2006 3:43:42 am
Well	:	Waskada Unit No. 6 WIW 13-07LAm-01-25W1	User	:	George
	:	02/13-07-001-25W1/0			
Hist.Data	:	02/84-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	3	Zone	:	29A

Production Data from January, 2000 to December, 2000

Year	Month Water Inj m3	Cum Water Inj m3	Cal Day Water Inj m3/d
Jan., 2000	2216	337715	71.4839
Feb., 2000	1927	339642	66.4483
Mar., 2000	2126	341768	68.5806
Apr., 2000	2080	343848	69.3334
May., 2000	2267	346115	73.1291
Jun., 2000	1686	347801	56.2
Jul., 2000	3062	350863	98.7742
Aug., 2000	1840	352703	59.3548
Sep., 2000	2626	355329	87.5333
Oct., 2000	1496	356825	48.2581
Nov., 2000	2371	359196	79.0334
Dec., 2000	2226	361422	71.8064

Production Report

Group	:	waskadau6	Date	:	September 3, 2006 3:46:57 am
Well	:	Waskada Unit No. 6 WIW 15-07-01-25W1	User	:	George
	:	00/15-07-001-25W1/0			
Hist.Data	:	01/85-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	3	Zone	:	29A

Production Data from January, 2000 to December, 2000

Year	Month Water Inj m3	Cum Water Inj m3	Cal Day Water Inj m3/d
Jan., 2000	507	107257	16.3548
Feb., 2000	411	107668	14.1724
Mar., 2000	466.001	108134	15.0323
Apr., 2000	464.001	108598	15.4667
May., 2000	484	109082	15.6129
Jun., 2000	283	109365	9.43334
Jul., 2000	473	109838	15.2581
Aug., 2000	366.001	110204	11.8065
Sep., 2000	286	110490	9.53334
Oct., 2000	225	110715	7.25805
Nov., 2000	211	110926	7.03333
Dec., 2000	210	111136	6.77419

Production Report

Group	:	waskadau6	Date	:	September 3, 2006 3:46:16 am
Well	:	Waskada Unit No. 6 WIW 07-01-01-26W1	User	:	George
	:	00/07-01-001-26W1/0			
Hist.Data	:	09/84-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	3	Zone	:	29A

Production Data from January, 2000 to December, 2000

Year	Month Water Inj m3	Cum Water Inj m3	Cal Day Water Inj m3/d
Jan., 2000	277	151059	8.9355
Feb., 2000	232	151291	7.99998
Mar., 2000	253.001	151544	8.16131
Apr., 2000	249.999	151794	8.33331
May., 2000	259.001	152053	8.35486
Jun., 2000	141.999	152195	4.73331
Jul., 2000	238.999	152434	7.70966
Aug., 2000	178	152612	5.74195
Sep., 2000	138.999	152751	4.63331
Oct., 2000	73.0004	152824	2.35485
Nov., 2000	155.001	152979	5.16669
Dec., 2000	154.001	153133	4.96777

Production Report

Group	:	waskadau6	Date	:	September 3, 2006 3:48:52 am
Well	:	Waskada Unit No. 6 WIW 09-01-01-26W1	User	:	George
	:	00/09-01-001-26W1/0			
Hist.Data	:	01/83-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	3	Zone	:	29A

Production Data from January, 2000 to December, 2000

Year	Month Water Inj m3	Cum Water Inj m3	Cal Day Water Inj m3/d
Jan., 2000	1068	47449	34.4516
Feb., 2000	497	47946	17.1379
Mar., 2000	1076	49022	34.7097
Apr., 2000	1052	50074	35.0666
May., 2000	1098	51172	35.4194
Jun., 2000	897	52069	29.9
Jul., 2000			
Aug., 2000			
Sep., 2000			
Oct., 2000	619	52688	19.9677
Nov., 2000	1037	53725	34.5667
Dec., 2000	1074	54799	34.6452

Production Report

Group	:	waskadau6	Date	:	September 3, 2006 3:51:43 am
Well	:	Waskada Unit No. 6 WIW 15-01-01-26W1	User	:	George
	:	00/15-01-001-26W1/2			
Hist.Data	:	08/84-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	3	Zone	:	29A

Production Data from January, 2000 to December, 2000

Year	Month Water Inj m3	Cum Water Inj m3	Cal Day Water Inj m3/d
Jan., 2000	433	207842	13.9677
Feb., 2000	367.001	208209	12.6552
Mar., 2000	416	208625	13.4193
Apr., 2000	403	209028	13.4333
May., 2000	415	209443	13.3871
Jun., 2000	234.999	209678	7.83332
Jul., 2000	439.999	210118	14.1935
Aug., 2000	334.999	210453	10.8064
Sep., 2000	262.001	210715	8.73335
Oct., 2000	174	210889	5.61292
Nov., 2000	142.999	211032	4.76664
Dec., 2000	108	211140	3.48387

Production Report

Group	:	waskadau6	Date	:	September 3, 2006 3:53:30 am
Well	:	Waskada Unit No. 6 WIW 01-12-01-26W1	User	:	George
	:	00/01-12-001-26W1/0			
Hist.Data	:	10/83-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	3	Zone	:	29A

Production Data from January, 2000 to December, 2000

Year	Month Water Inj m3	Cum Water Inj m3	Cal Day Water Inj m3/d
Jan., 2000	1210	56137	39.0323
Feb., 2000	546.999	56684	18.862
Mar., 2000	1214	57898	39.1613
Apr., 2000	1186	59084	39.5333
May., 2000	1250	60334	40.3226
Jun., 2000	1067	61401	35.5667
Jul., 2000	1237	62638	39.9032
Aug., 2000	1019	63657	32.871
Sep., 2000	1104	64761	36.8
Oct., 2000	1116	65877	36
Nov., 2000	1086	66963	36.2
Dec., 2000	1107	68070	35.7097

Production Report

Group	:	waskadau6	Date	:	September 3, 2006 3:56:31 am
Well	:	Waskada Unit No. 6 WIW 15-12-01-26W1	User	:	George
	:	00/15-12-001-26W1/0			
Hist.Data	:	11/82-12/00	On Prod	:	02/09
Operator	:		Status	:	Unknown
Field	:	3	Zone	:	29A

Production Data from January, 2000 to December, 2000

Year	Month Water Inj m3	Cum Water Inj m3	Cal Day Water Inj m3/d
Jan., 2000	1839	344582	59.3226
Feb., 2000	818	345400	28.2069
Mar., 2000	1847	347247	59.5806
Apr., 2000	1845	349092	61.5
May., 2000	1983	351075	63.9678
Jun., 2000	1508	352583	50.2667
Jul., 2000	2026	354609	65.3548
Aug., 2000	1848	356457	59.6129
Sep., 2000	1653	358110	55.1
Oct., 2000	1537	359647	49.5806
Nov., 2000	1422	361069	47.4
Dec., 2000	1410	362479	45.4839