

Historical Production (Rate-Time)

qi: 101.312 m3/d, Jul, 1986

qf: 2.06858 m3/d, May, 2055

di(Exp): 5.49 CTD: 2.3487e+06 m3

RR: 333608 m3 Tot: 2.68231e+06 m3

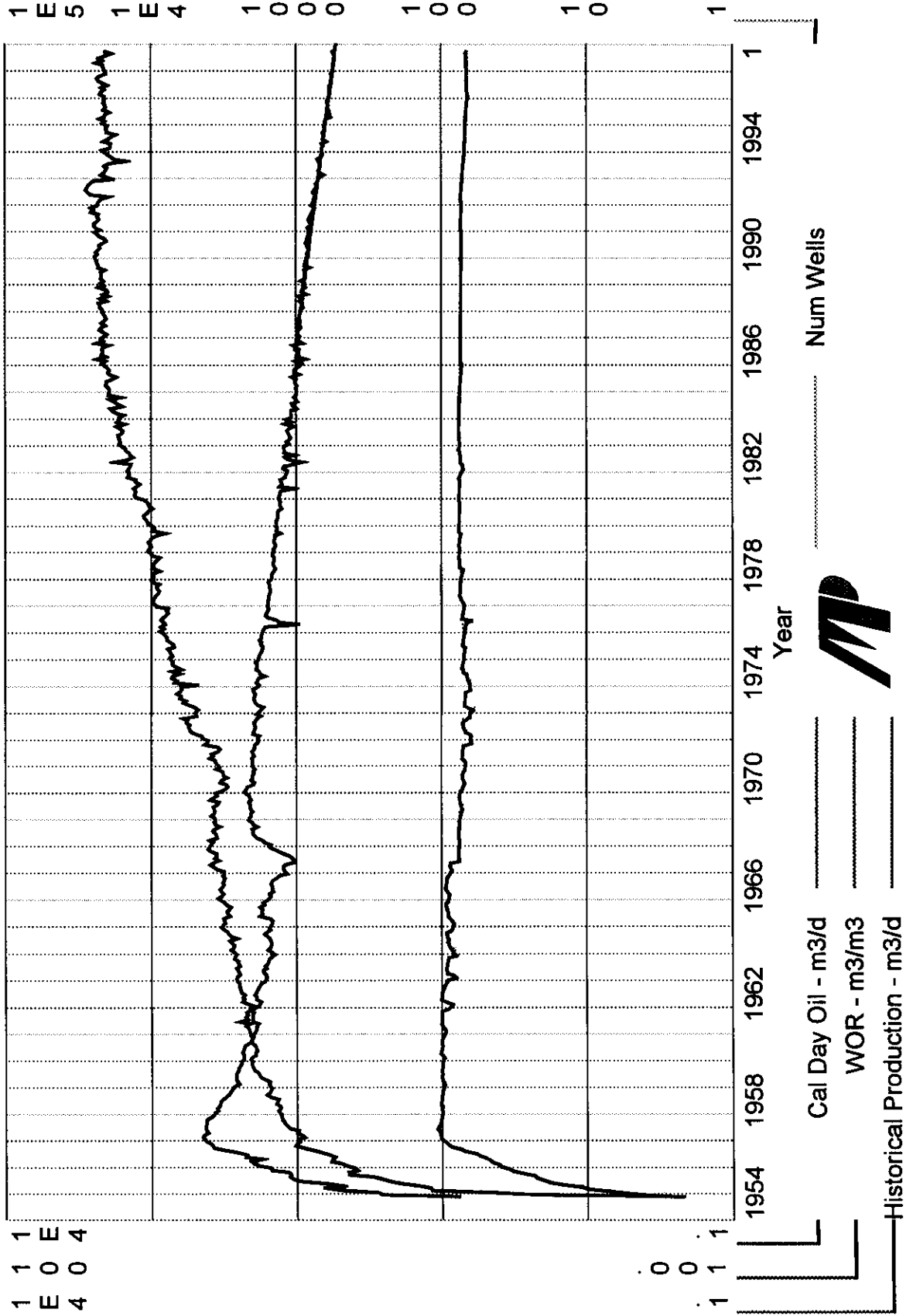
Production Cums

Oil: 2.3487e+06 m3

Gas: 0 E6m3

Water: 1.7435e+07 m3

Cond: 0 m3



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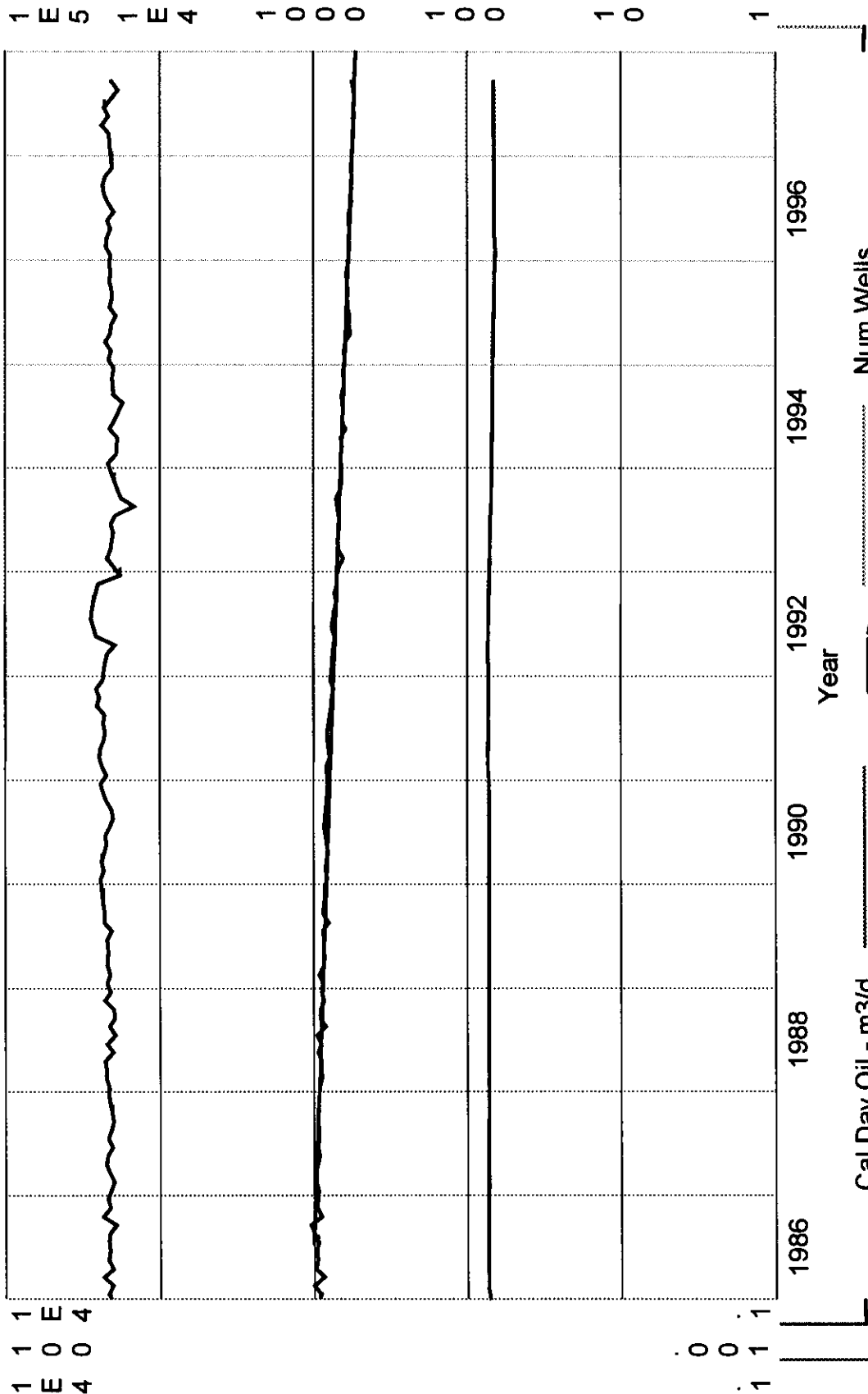
Production Cums

Oil: 2.3487e+06 m3

Gas: 0 E6m3

Water: 1.7435e+07 m3

Cond: 0 m3



Num Wells



Cal Day Oil - m3/d

WOR - m3/m3

Historical Production - m3/d

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-09/97
Operator :
Field :

Date : 1/9/98 11:08:12 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from January, 1996 to December, 2003

Year	Cal Day Oil m3/d	Monthly Oil m3	Historical Production m3/d	Num Wells	
Jan., 1996	59.1903	1834.9	58.8124	66	
Feb., 1996	57.8276	1677	58.5363	65	
Mar., 1996	58.5032	1813.6	58.2616	65	
Apr., 1996	58.05	1741.5	57.9881	66	
May., 1996	59.0806	1831.5	57.7158	66	
Jun., 1996	58.2667	1748	57.4449	66	
Jul., 1996	56.3968	1748.3	57.1752	66	
Aug., 1996	56.629	1755.5	56.9068	66	
Sep., 1996	56.7567	1702.7	56.6397	66	
Oct., 1996	55.971	1735.1	56.3738	66	
Nov., 1996	56.9	1707	56.1092	66	
Dec., 1996	55.8903	1732.6	55.8458	66	
Jan., 1997	55.9097	1733.2	55.7359	66	
Feb., 1997	55.3786	1550.6	55.4743	66	
Mar., 1997	54.6581	1694.4	55.2139	66	
Apr., 1997	54.97	1649.1	54.9547	66	
May., 1997	53.8968	1670.8	54.6967	66	NEW oil (m3/d)
Jun., 1997	54.5133	1635.4	54.4399	66	ABOVE HISTORICAL DECLINE
Jul., 1997	53.6548	1663.3	54.1844	66	5
Aug., 1997	54.5871	1692.2	53.93	66	0.9
Sep., 1997	55.8033	1674.1	53.6768	67	2.1
Oct., 1997			53.4249		
Nov., 1997			53.1741		
Dec., 1997			52.9245		
Jan., 1998			52.676		
Feb., 1998			52.4287		
Mar., 1998			52.1826		
Apr., 1998			51.9377		
May., 1998			51.6938		
Jun., 1998			51.4512		
Jul., 1998			51.2096		
Aug., 1998			50.9692		
Sep., 1998			50.73		
Oct., 1998			50.4918		
Nov., 1998			50.2548		
Dec., 1998			50.0189		
Jan., 1999			49.7841		
Feb., 1999			49.5504		
Mar., 1999			49.3178		
Apr., 1999			49.0863		
May., 1999			48.8558		
Jun., 1999			48.6265		
Jul., 1999			48.3982		
Aug., 1999			48.171		

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : 1/9/98 11:08:12 am
User : Ludwig

Production Data from January, 1996 to December, 2003 (cont.)

Year	Cal Day Oil m3/d	Monthly Oil m3	Historical Production m3/d	Num Wells
Sep., 1999			47.9449	
Oct., 1999			47.7198	
Nov., 1999			47.4958	
Dec., 1999			47.2729	
Jan., 2000			46.9224	
Feb., 2000			46.7021	
Mar., 2000			46.4829	
Apr., 2000			46.2647	
May., 2000			46.0475	
Jun., 2000			45.8313	
Jul., 2000			45.6162	
Aug., 2000			45.4021	
Sep., 2000			45.1889	
Oct., 2000			44.9768	
Nov., 2000			44.7657	
Dec., 2000			44.5555	
Jan., 2001			44.4679	
Feb., 2001			44.2591	
Mar., 2001			44.0513	
Apr., 2001			43.8446	
May., 2001			43.6387	
Jun., 2001			43.4339	
Jul., 2001			43.23	
Aug., 2001			43.027	
Sep., 2001			42.8251	
Oct., 2001			42.624	
Nov., 2001			42.4239	
Dec., 2001			42.2248	
Jan., 2002			42.0266	
Feb., 2002			41.8293	
Mar., 2002			41.6329	
Apr., 2002			41.4375	
May., 2002			41.243	
Jun., 2002			41.0494	
Jul., 2002			40.8567	
Aug., 2002			40.6649	
Sep., 2002			40.474	
Oct., 2002			40.284	
Nov., 2002			40.0949	
Dec., 2002			39.9066	
Jan., 2003			39.7193	
Feb., 2003			39.5329	
Mar., 2003			39.3473	
Apr., 2003			39.1626	
May., 2003			38.9787	
Jun., 2003			38.7957	
Jul., 2003			38.6136	
Aug., 2003			38.4324	

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : 1/9/98 11:08:12 am
User : Ludwig

Production Data from January, 1996 to December, 2003 (cont.)

Year	Cal Day Oil m3/d	Monthly Oil m3	Historical Production m3/d	Num Wells
Sep., 2003			38.2519	
Oct., 2003			38.0724	
Nov., 2003			37.8937	
Dec., 2003			37.7158	

Production Report

Group	: VRU No. 3	Date	: 1/9/98 11:23:48 am
Well	: Rundle Williams Virden 03-14-10-26W1	User	: Ludwig
	: 00/03-14-010-26W1/0		
Hist.Data	: 01/56-09/97	On Prod	: 01/00
Operator	:	Status	: Unknown
Field	: 5	Zone	: 59B

Production Data from January, 1997 to September, 1997

Year	Cal Day Oil m3/d	Monthly Oil m3	WOR m3/m3
Jan., 1997	0.109677	3.4	73.5
Feb., 1997	0.110714	3.1	71.9355
Mar., 1997	0.106452	3.3	73.4849
Apr., 1997	0.106667	3.2	74.6875
May., 1997	0.267742	8.3	27.3494
Jun., 1997	0.28	8.4	28.75
Jul., 1997	0.222581	6.9	33.4638
Aug., 1997	0.222581	6.9	59
Sep., 1997	0.376667	11.3	39.7699

ACUS 12 CD 03
25-JUL-97

Production Report

Group	: VRU No. 3	Date	: 1/9/98 11:24:36 am
Well	: Rundle Williams Virden 05-14-10-26W1	User	: Ludwig
	: 00/05-14-010-26W1/0		
Hist.Data	: 01/56-09/97	On Prod	: 01/00
Operator	:	Status	: Unknown
Field	: 5	Zone	: 59B

Production Data from January, 1997 to September, 1997

Year	Cal Day Oil m3/d	Monthly Oil m3	WOR m3/m3
Jan., 1997	0.145161	4.5	10.0667
Feb., 1997	0.142857	4	10.1
Mar., 1997	0.135484	4.2	10.4524
Apr., 1997	0.14	4.2	10.4524
May., 1997	0.290323	9	4.02222
Jun., 1997	0.326667	9.8	2.95918
Jul., 1997	0.335484	10.4	5.09615
Aug., 1997	0.277419	8.6	23.9767
Sep., 1997	0.266667	8	23.9

Acidized 27
27 - JUN - 97

Production Report

Group : VRU No. 3 Injection
 Well : VRU No. 3 Injection
 : 000000217
 Hist.Data : 05/67-09/97
 Operator :
 Field :

Date : 1/9/98 11:52:20 am
 User : Ludwig
 On Prod : 02/09
 Status : Inj
 Zone :

Production Data from January, 1996 to September, 1997

Year	Month Water Inj m3	
Jan., 1996	38055	
Feb., 1996	37238	
Mar., 1996	39879	
Apr., 1996	35957	
May., 1996	39380	
Jun., 1996	34283	
Jul., 1996	37587	
Aug., 1996	39997	
Sep., 1996	39831	
Oct., 1996	38798	
Nov., 1996	34715	
Dec., 1996	35139	
Jan., 1997	35240	
Feb., 1997	32608	
Mar., 1997	36075	
Apr., 1997	39164	} 37402 m3/month
May., 1997	35701	
Jun., 1997	37340	
Jul., 1997	38040	} 34536 m3/month
Aug., 1997	31406	
Sep., 1997	34161	

VRU No. 3

OBSERVATIONS.

- Chevron dec 8.8% p.a. JAN/94
- pattern balancing 1994
- several high wt cut wells sup/abd
- VRR < 1.0, overall impact reduction in recovery
- NO NEW OIL WORKS IN VRU #3
- from 1990 inj. levels

91 - 96.7% 94 - ~~86.3~~% 84.7
 92 - 92.8% 95 - 84.6
 93 - 86.3% 96 - 84.2

- 1996 - 66 wells producing compared to 73 in 1992
- WOR 1996 - 21.5 vs 1992 - 24.3

DECLINE ANALYSIS - OPERATING DAY

PERIOD TO DEC/97	DECLINE RATE	1996 COMPARISON AVER PROD (MONTHLY AVER ÷ 12)	HISTORICAL DECLINE AVER PROD 1996 (MONTHLY AVER ÷ 12)	ACTUAL MAY RATE 97	PREDICTED MAY RATE 97 m3/d
1996 AVER DAILY OIL					
JUL/70	4.94	57.28	59.25		56.83
APR/73	5.06	57.28	58.66		56.20
NOV/75	4.94	57.28	59.19		56.77
MAY/81	4.89	57.28	59.34		56.94
JUL/86	5.44	57.28	58.17		55.54
MAR/90	6.43	57.28	56.78		53.70
FEB/93	5.63	57.28	57.33		54.64
AUG/93	5.92	57.28	57.18		54.34
JAN/94	5.74	57.28	57.26		54.51
OCT/94	5.40	57.28	57.30		54.73

in 1996 $m^3 / \text{cal day} / m^3 / \text{op day} = 0.993,$

ratio for the last 3 yrs. decline analysis
period prepared by Chevron — 0.990

cal day more representative for analysis,
represents monthly prod ÷ days in month

DECLINE ANALYSIS - CARBONATE RAY

Period	DECLINE RATE	Actual 1996 Avg Prod (m ³ /d)	HISTORICAL DECLINE 1996 Avg Prod (m ³ /d)	Actual May 97 Prod (m ³ /d)	Reduced May 97 (m ³ /d)
AUG/76	4.86	57.43	59.00		56.63
SEP/83	4.87	57.43	58.83		56.46
JUL/86	5.42	57.43	57.73		55.13
MAY/88	5.82	57.43	57.22		54.44
JUN/90	6.32	57.43	56.45		53.48
DEC/91	5.97	57.43	56.78		53.94
JAN/93	5.28	57.43	57.19		54.69
JAN/94	5.37	57.43	57.13		54.58

-compare VRR 1990 vs 1996

-compare calculations

Decl. —
5.37421 Blend
9; JAN/94
65.91 m³/d

1 Curr Prod
2.3337 × 10⁶ (1/96)

Rec Res. 9F = 4.9765

8.79681 Chevron
67.60 m³/d

2.34038 × 10⁶ (01/97)

182016 (2)

VRU #3 1997

Prod (3/1)

	ACTUAL	JAN FEB / 93	JAN / 94
JAN	55.91	55.69	55.59
FEB	55.38	55.44	55.34
MAR	54.66	55.19	55.08 *
APR	54.97	54.94 *	54.83 *
MAY	53.90	54.69	54.58

* NEW OIL

VRU No. 3 Injection Data 05/67-12/96

Operator:

Field:

Zone:

Type: Inj

Group: VRU No. 3 Injection

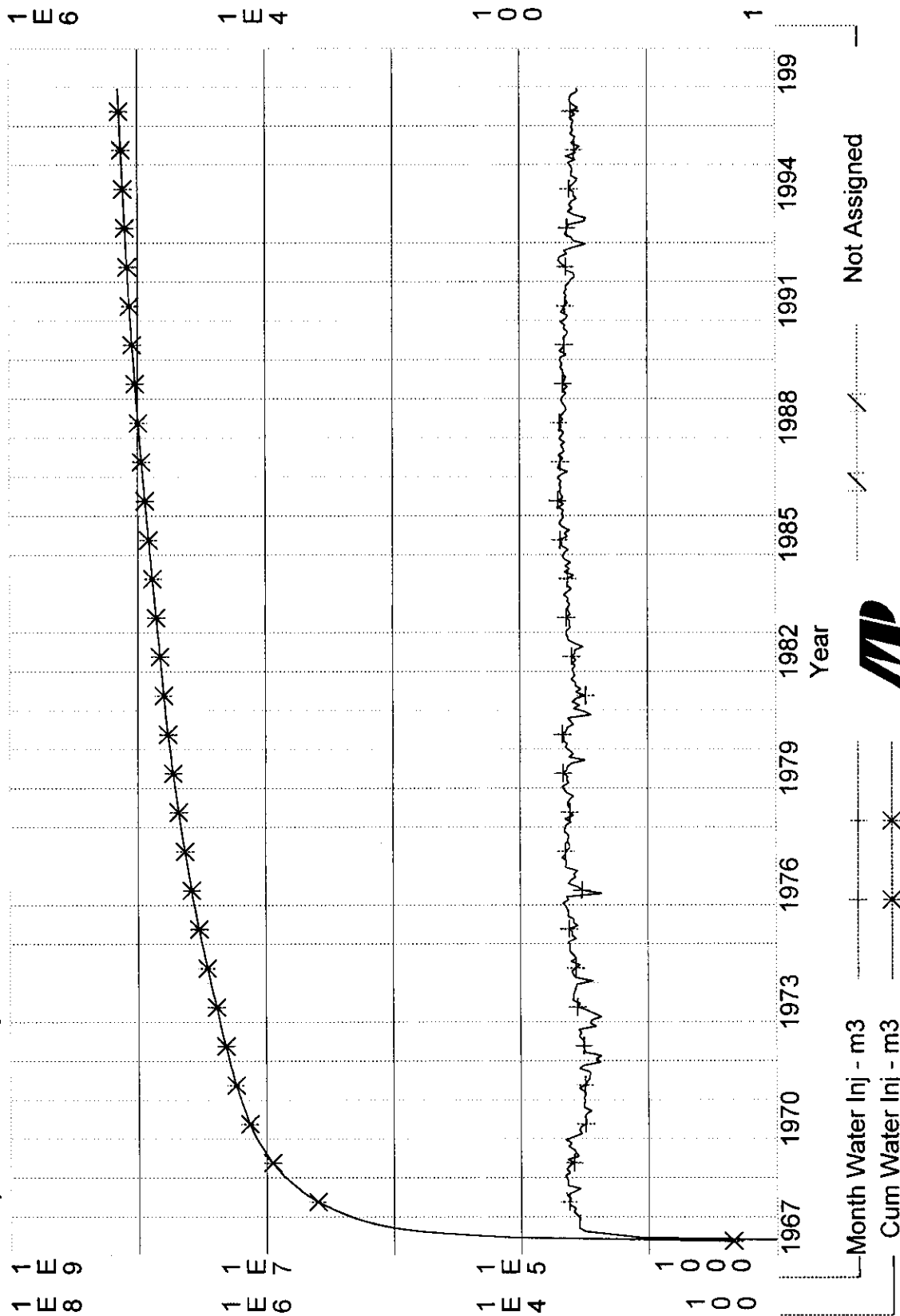
Injection Cums

Gas: 0 E3m3

NGL: 0 m3

Water: 1.41078e+07 m3

WaterDSP: 0 m3



Not Assigned

Month Water Inj - m3

Cum Water Inj - m3



Production Report

Group : VRU No. 3 Injection
Well : VRU No. 3 Injection
: 000000217

Date : August 28, 1997 9:29:59 am
User : Ludwig

Production Data from January, 1987 to December, 1996 (cont.)

Year	Month Water Inj m3	Cum Water Inj m3
Sep., 1994	39111	1.30881e+07
Oct., 1994	38609	1.31267e+07
Nov., 1994	38112	1.31648e+07
Dec., 1994	39099	1.32039e+07
Jan., 1995	41277	1.32452e+07
Feb., 1995	35860	1.3281e+07
Mar., 1995	42827	1.33239e+07
Apr., 1995	35604	1.33595e+07
May., 1995	36989	1.33964e+07
Jun., 1995	33195	1.34296e+07
Jul., 1995	38662	1.34683e+07
Aug., 1995	37017	1.35053e+07
Sep., 1995	36134	1.35415e+07
Oct., 1995	39424	1.35809e+07
Nov., 1995	37492	1.36184e+07
Dec., 1995	38604	1.3657e+07
Jan., 1996	38055	1.3695e+07
Feb., 1996	37238	1.37323e+07
Mar., 1996	39879	1.37721e+07
Apr., 1996	35957	1.38081e+07
May., 1996	39380	1.38475e+07
Jun., 1996	34283	1.38818e+07
Jul., 1996	37587	1.39194e+07
Aug., 1996	39997	1.39593e+07
Sep., 1996	39831	1.39992e+07
Oct., 1996	38798	1.4038e+07
Nov., 1996	34715	1.40727e+07
Dec., 1996	35139	1.41078e+07

AVER MONTHLY INJ

1990 44642 1993 38525
1991 43200 1994 37800
1992 41433 1995 37758 m3
1996 37567 m3

Production Report

Group : VRU No. 3 Injection
Well : VRU No. 3 Injection
: 000000217

Date : August 28, 1997 9:29:59 am
User : Ludwig

Production Data from January, 1987 to December, 1996 (cont.)

Year	Month Water Inj m3	Cum Water Inj m3
Sep., 1990	41644	1.11371e+07
Oct., 1990	44660	1.11818e+07
Nov., 1990	43383	1.12252e+07
Dec., 1990	47236	1.12724e+07
Jan., 1991	42688	1.13151e+07
Feb., 1991	41500	1.13566e+07
Mar., 1991	46954	1.14035e+07
Apr., 1991	44970	1.14485e+07
May., 1991	43938	1.14924e+07
Jun., 1991	41533	1.1534e+07
Jul., 1991	43724	1.15777e+07
Aug., 1991	42520	1.16202e+07
Sep., 1991	44298	1.16645e+07
Oct., 1991	42478	1.1707e+07
Nov., 1991	43078	1.17501e+07
Dec., 1991	40715	1.17908e+07
Jan., 1992	39179	1.183e+07
Feb., 1992	36433	1.18664e+07
Mar., 1992	37439	1.19038e+07
Apr., 1992	43219	1.19471e+07
May., 1992	43026	1.19901e+07
Jun., 1992	46863	1.2037e+07
Jul., 1992	49075	1.2086e+07
Aug., 1992	48025	1.21341e+07
Sep., 1992	42072	1.21761e+07
Oct., 1992	44575	1.22207e+07
Nov., 1992	37432	1.22581e+07
Dec., 1992	29859	1.2288e+07
Jan., 1993	37340	1.23253e+07
Feb., 1993	38680	1.2364e+07
Mar., 1993	43986	1.2408e+07
Apr., 1993	41997	1.245e+07
May., 1993	42017	1.2492e+07
Jun., 1993	40535	1.25325e+07
Jul., 1993	30866	1.25634e+07
Aug., 1993	29918	1.25933e+07
Sep., 1993	37051	1.26304e+07
Oct., 1993	41508	1.26719e+07
Nov., 1993	38009	1.27099e+07
Dec., 1993	40360	1.27503e+07
Jan., 1994	38818	1.27891e+07
Feb., 1994	35298	1.28244e+07
Mar., 1994	37506	1.28619e+07
Apr., 1994	37107	1.2899e+07
May., 1994	40367	1.29394e+07
Jun., 1994	38497	1.29779e+07
Jul., 1994	36412	1.30143e+07
Aug., 1994	34693	1.3049e+07

Production Report

Group	: VRU No. 3 Injection	Date	: August 28, 1997 9:29:59 am
Well	: VRU No. 3 Injection	User	: Ludwig
	: 000000217		
Hist.Data	: 05/67-12/96	On Prod	: 02/09
Operator	:	Status	: Inj
Field	:	Zone	:

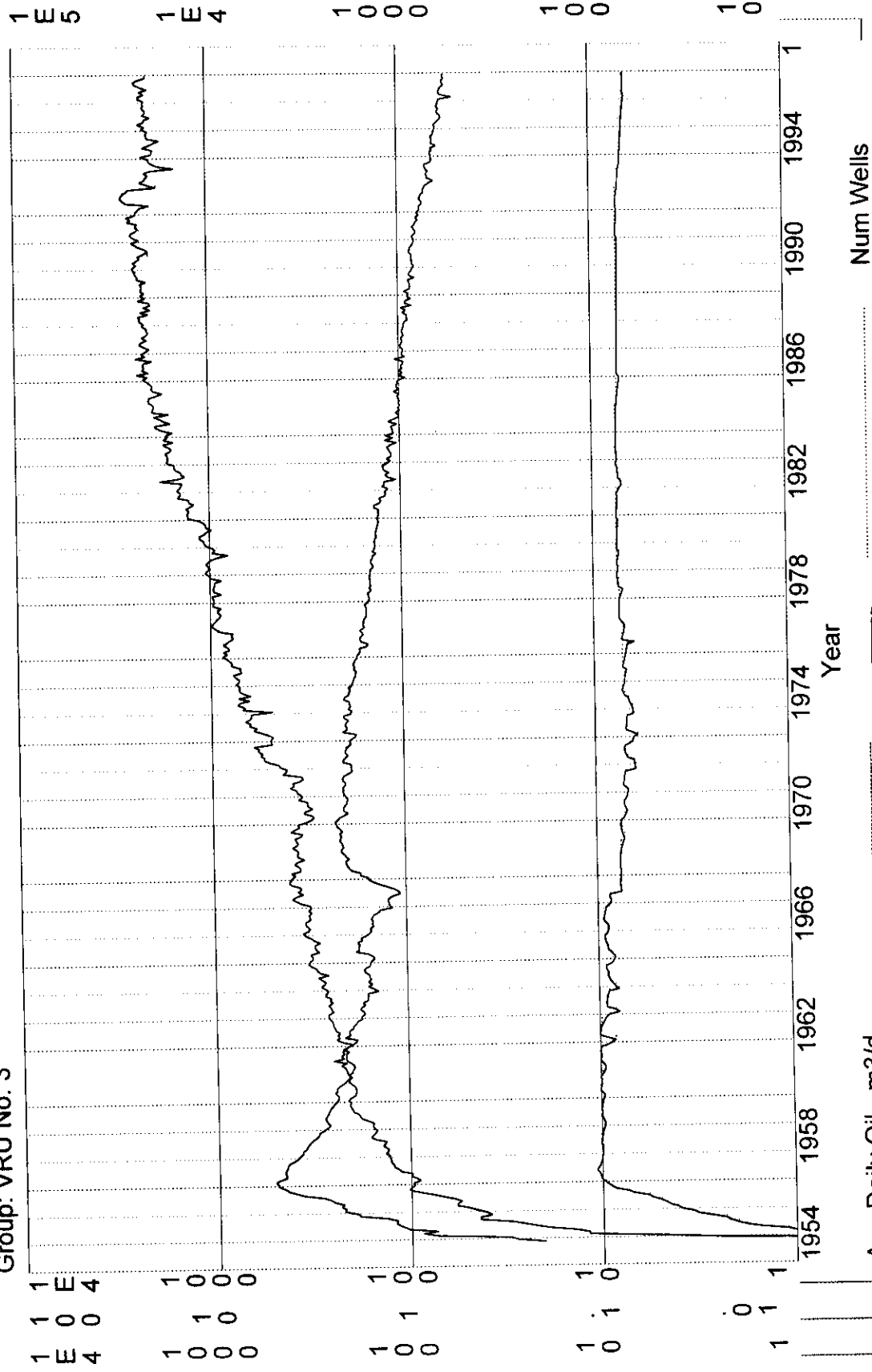
Production Data from January, 1987 to December, 1996

Year	Month Water Inj m3	Cum Water Inj m3
Jan., 1987	46855	9.13407e+06
Feb., 1987	41524	9.1756e+06
Mar., 1987	49659	9.22525e+06
Apr., 1987	48756	9.27401e+06
May., 1987	47822	9.32183e+06
Jun., 1987	45341	9.36717e+06
Jul., 1987	49339	9.41651e+06
Aug., 1987	44738	9.46125e+06
Sep., 1987	44999	9.50625e+06
Oct., 1987	47222	9.55347e+06
Nov., 1987	43818	9.59729e+06
Dec., 1987	48572	9.64586e+06
Jan., 1988	46666	9.69253e+06
Feb., 1988	44582	9.73711e+06
Mar., 1988	47893	9.785e+06
Apr., 1988	46866	9.83187e+06
May., 1988	48524	9.88039e+06
Jun., 1988	45436	9.92583e+06
Jul., 1988	47418	9.97325e+06
Aug., 1988	44958	1.00182e+07
Sep., 1988	42646	1.00608e+07
Oct., 1988	43460.3	1.01043e+07
Nov., 1988	45823	1.01501e+07
Dec., 1988	46779	1.01969e+07
Jan., 1989	45816	1.02427e+07
Feb., 1989	42710	1.02854e+07
Mar., 1989	45237	1.03307e+07
Apr., 1989	41731	1.03724e+07
May., 1989	45454	1.04179e+07
Jun., 1989	44102	1.0462e+07
Jul., 1989	43120	1.05051e+07
Aug., 1989	45062	1.05501e+07
Sep., 1989	45428	1.05956e+07
Oct., 1989	47533	1.06431e+07
Nov., 1989	45829	1.06889e+07
Dec., 1989	47725	1.07367e+07
Jan., 1990	47429	1.07841e+07
Feb., 1990	42372	1.08265e+07
Mar., 1990	48054	1.08745e+07
Apr., 1990	45368	1.09199e+07
May., 1990	44341	1.09642e+07
Jun., 1990	44126	1.10084e+07
Jul., 1990	44820	1.10532e+07
Aug., 1990	42303	1.10955e+07

VRU No. 3 Data 11/54-12/96

Operator:
Field:
Zone:
Type: Unknown
Group: VRU No. 3

Production Cums
Oil: 2.3337e+06 m3
Gas: 0 E6m3
Water: 1.71153e+07 m3
Cond: 0 m3



Avg Daily Oil - m3/d
WOR - m3/m3
Not Assigned

Num Wells

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : August 22, 1997 3:50:43 pm
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from November, 1954 to December, 1996

Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Nov., 1954	228.4	20.1529	228.4	3	0.00218914
Dec., 1954	807.9	27.8586	1036.3	3	0.0225275
Jan., 1955	849.5	30.7048	1885.8	3	0.0463802
Feb., 1955	1331.8	73.4786	3217.6	7	0.117585
Mar., 1955	1971.9	87.3166	5189.5	10	0.119124
Apr., 1955	1438.6	73.3045	6628.1	11	0.139858
May., 1955	1873.5	103.366	8501.6	15	0.187724
Jun., 1955	2788.8	103.289	11290.4	18	0.222497
Jul., 1955	3317.2	116.734	14607.6	20	0.257084
Aug., 1955	3506	120.723	18113.6	22	0.299059
Sep., 1955	3301.5	118.439	21415.1	23	0.438498
Oct., 1955	3522.9	133.993	24938	27	0.439865
Nov., 1955	4533.5	185.041	29471.5	32	0.382133
Dec., 1955	4715.7	189.894	34187.2	34	0.400916
Jan., 1956	5699.7	223.883	39886.9	39	0.452287
Feb., 1956	5770.7	219.141	45657.6	41	0.497825
Mar., 1956	6415.5	231.537	52073.1	45	0.579363
Apr., 1956	5216.1	224.751	57289.2	47	0.572727
May., 1956	7032.1	250.773	64321.3	50	0.548385
Jun., 1956	6697	263.057	71018.3	55	0.596909
Jul., 1956	8074.8	285.834	79093.1	58	0.683212
Aug., 1956	9624.3	359.227	88717.4	69	0.771973
Sep., 1956	11337.5	397.807	100055	74	0.903118
Oct., 1956	11870.8	438.306	111926	86	1.02745
Nov., 1956	11898.2	454.708	123824	90	1.00061
Dec., 1956	13151.7	489.366	136976	94	0.957488
Jan., 1957	13464.6	489.622	150440	97	0.976375
Feb., 1957	12499.2	507.582	162939	101	0.890977
Mar., 1957	13505.5	475.965	176445	101	0.933079
Apr., 1957	12334.5	445.155	188779	103	0.999822
May., 1957	13079.7	449.088	201859	104	0.980053
Jun., 1957	12833.1	454.94	214692	107	1.12888
Jul., 1957	13266.1	450.334	227958	105	1.16345
Aug., 1957	13257.1	442.518	241215	103	1.22152
Sep., 1957	12767.3	440.885	253983	102	1.23076
Oct., 1957	13065.2	430.721	267048	101	1.2676
Nov., 1957	11724.7	407.225	278773	101	1.27286
Dec., 1957	11560.6	389.683	290333	100	1.28362
Jan., 1958	11482.5	379.065	301816	100	1.29042
Feb., 1958	9863.2	365.868	311679	99	1.3502
Mar., 1958	11068.9	366.925	322748	100	1.30297
Apr., 1958	10305.9	351.837	333054	99	1.31346
May., 1958	10545.3	347.17	343599	101	1.38878
Jun., 1958	10122.5	340.252	353722	101	1.39003

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : August 22, 1997 3:50:43 pm
User : Ludwig

Production Data from November, 1954 to December, 1996 (cont.)

Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Jul., 1958	10085.1	332.02	363807	101	1.336
Aug., 1958	9705.1	323.055	373512	101	1.51932
Sep., 1958	8913.4	309.135	382425	101	1.61233
Oct., 1958	9002	300.903	391427	99	1.55976
Nov., 1958	8695.8	299.855	400123	99	1.51696
Dec., 1958	8574.9	283.859	408698	97	1.49699
Jan., 1959	8311.3	272.874	417009	97	1.55315
Feb., 1959	7040.8	261.983	424050	96	1.56942
Mar., 1959	7945.2	261.93	431995	96	1.54614
Apr., 1959	7928.2	272.994	439923	98	1.65596
May., 1959	8169.4	277.321	448093	100	1.7923
Jun., 1959	7918	273.427	456011	100	1.81804
Jul., 1959	8095.6	268.734	464106	99	1.84548
Aug., 1959	7816.7	264.973	471923	100	1.96565
Sep., 1959	7614.2	261.432	479537	100	1.99404
Oct., 1959	7652.5	256.508	487190	99	2.03077
Nov., 1959	7248.7	249.239	494438	99	2.05623
Dec., 1959	7555.1	249.412	501994	99	2.02617
Jan., 1960	7176	236.897	509170	97	2.08893
Feb., 1960	6775.4	235.325	515945	96	2.03786
Mar., 1960	7182.3	236.13	523127	97	1.9282
Apr., 1960	7191.6	245.867	530319	101	1.93038
May., 1960	7316.3	238.575	537635	101	1.89515
Jun., 1960	6927.4	239.91	544563	101	1.89147
Jul., 1960	7102.3	233.5	551665	99	1.93095
Aug., 1960	6764.8	221.797	558430	99	2.00924
Sep., 1960	6181.4	214.694	564611	99	2.07458
Oct., 1960	6312.7	209.261	570924	100	2.05487
Nov., 1960	5982.2	203.073	576906	98	1.99729
Dec., 1960	6266	205.724	583172	98	2.08636
Jan., 1961	6045.9	197.956	589218	95	2.09082
Feb., 1961	5450.8	197.314	594669	94	2.12952
Mar., 1961	5856.4	192.539	600525	95	2.16493
Apr., 1961	5712.8	193.928	606238	97	2.25445
May., 1961	5722.1	199.899	611960	100	2.11333
Jun., 1961	5986.9	210.992	617947	100	2.49116
Jul., 1961	6303	213.059	624250	99	2.18104
Aug., 1961	6234.7	213.152	630485	99	2.25875
Sep., 1961	6091.5	212.186	636576	100	2.18206
Oct., 1961	6145.5	205.994	642722	100	2.22823
Nov., 1961	6280.2	221.329	649002	99	2.12746
Dec., 1961	6027.4	207.543	655029	91	2.09369
Jan., 1962	5744.9	195.849	660774	86	1.94956
Feb., 1962	5171.3	188.906	665945	83	2.21333
Mar., 1962	5451.8	185.068	671397	83	2.36753
Apr., 1962	5717.2	215.067	677114	100	2.29497
May., 1962	5844.1	200.656	682958	100	2.34722
Jun., 1962	5843.1	204.722	688802	100	2.27432

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Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Jul., 1962	6036.3	202.617	694838	99	2.40281
Aug., 1962	5825.4	194.45	700663	98	2.41396
Sep., 1962	5626.7	192.915	706290	98	2.46608
Oct., 1962	5586.1	187.244	711876	98	2.47411
Nov., 1962	5284	184.863	717160	98	2.4927
Dec., 1962	5181.6	173.928	722342	92	2.57158
Jan., 1963	5033.6	175.846	727375	89	2.60301
Feb., 1963	4480.8	168.557	731856	79	2.59396
Mar., 1963	5057.5	169.525	736914	82	2.46711
Apr., 1963	5075.7	177.575	741989	91	2.46228
May., 1963	5303	174.824	747292	91	2.53913
Jun., 1963	4860.5	166.884	752153	92	2.60138
Jul., 1963	5140.1	172.294	757293	92	2.47406
Aug., 1963	4915.3	162.713	762208	92	2.54686
Sep., 1963	4700.2	162.543	766908	92	2.52757
Oct., 1963	4814.8	160.493	771723	90	2.69112
Nov., 1963	4443.7	162.327	776167	89	2.67437
Dec., 1963	4391.8	142.63	780559	79	2.60183
Jan., 1964	4602.1	150.068	785161	82	2.68458
Feb., 1964	4591.5	160.87	789752	82	2.83933
Mar., 1964	4712.6	153.048	794465	82	2.72232
Apr., 1964	4507.2	160.732	798972	88	2.68246
May., 1964	4603.8	155.403	803576	88	2.80201
Jun., 1964	4550	157.576	808126	90	2.91901
Jul., 1964	4742.1	158.07	812868	89	2.58911
Aug., 1964	4945.9	165.093	817814	91	2.84969
Sep., 1964	4990.3	168.449	822804	91	2.96375
Oct., 1964	4965.9	165.76	827770	92	2.98971
Nov., 1964	4562.1	156.415	832332	86	3.18189
Dec., 1964	4784.6	156.02	837117	84	3.28721
Jan., 1965	4652	153.785	841769	84	3.2218
Feb., 1965	4123.9	147.943	845893	82	3.10997
Mar., 1965	4513.9	150.673	850406	84	3.11868
Apr., 1965	4603.4	158.51	855010	86	3.19896
May., 1965	5545.2	184.84	860555	89	2.87494
Jun., 1965	5173.2	177.621	865728	89	2.9768
Jul., 1965	5421.8	178.495	871150	90	3.02831
Aug., 1965	5321.2	175.907	876471	91	3.0346
Sep., 1965	5375	181.18	881846	92	2.84461
Oct., 1965	5191.2	170.436	887037	92	3.04814
Nov., 1965	5126.2	174.015	892164	93	3.1456
Dec., 1965	4964.2	162.761	897128	90	3.35798
Jan., 1966	4778	156.229	901906	89	3.47899
Feb., 1966	4230.5	152.91	906136	89	3.28193
Mar., 1966	4789.6	155.549	910926	88	3.18866
Apr., 1966	4335.9	148.236	915262	90	3.28935
May., 1966	4549.9	151.874	919812	92	3.37728
Jun., 1966	4392.5	149.32	924204	94	3.36747

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Production Data from November, 1954 to December, 1996 (cont.)

Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Jul., 1966	4686.5	152.613	928891	93	3.17482
Aug., 1966	4631.2	150.608	933522	93	3.21003
Sep., 1966	4370.3	147.521	937892	93	3.23147
Oct., 1966	4267.9	139.55	942160	93	3.11795
Nov., 1966	3953.3	137.307	946114	91	3.23297
Dec., 1966	3618.7	118.323	949732	88	3.14773
Jan., 1967	3759	122.576	953491	86	3.18162
Feb., 1967	3441.5	123.462	956933	85	3.54938
Mar., 1967	3838.4	124.995	960771	85	3.73588
Apr., 1967	3622.9	122.81	964394	87	3.93939
May., 1967	3263.2	117.593	967657	86	3.73489
Jun., 1967	3129.4	106.988	970787	75	3.43168
Jul., 1967	3301.5	109.291	974088	75	3.67539
Aug., 1967	3501.7	114.967	977590	75	3.52534
Sep., 1967	3726.3	125.429	981316	76	3.55481
Oct., 1967	4163.7	136.515	985480	76	3.93866
Nov., 1967	4314	147.068	989794	76	4.07395
Dec., 1967	4777.1	155.564	994571	76	3.98868
Jan., 1968	4678.2	158.136	999249	76	3.91116
Feb., 1968	4856.8	173.457	1.00411e+06	76	3.752
Mar., 1968	5280.7	171.73	1.00939e+06	75	3.9625
Apr., 1968	5679.8	192.264	1.01507e+06	75	3.52409
May., 1968	6000.2	196.997	1.02107e+06	76	3.53721
Jun., 1968	6020.3	201.516	1.02709e+06	76	3.6299
Jul., 1968	6208.6	201.632	1.0333e+06	76	3.79699
Aug., 1968	6295.4	206.125	1.03959e+06	76	3.6678
Sep., 1968	5563.4	196.935	1.04515e+06	76	3.36794
Oct., 1968	6166.9	203.584	1.05132e+06	76	3.61436
Nov., 1968	6085.9	206.886	1.05741e+06	76	3.69472
Dec., 1968	6638	215.286	1.06405e+06	75	3.61769
Jan., 1969	6593.6	216.184	1.07064e+06	75	3.68315
Feb., 1969	5770.7	211.123	1.07641e+06	75	3.88866
Mar., 1969	6434.8	212.721	1.08284e+06	75	3.7077
Apr., 1969	6018.4	214.943	1.08886e+06	75	3.63798
May., 1969	6455.7	219.769	1.09532e+06	72	3.70727
Jun., 1969	6240.6	217.064	1.10156e+06	72	3.76964
Jul., 1969	6492.8	215.529	1.10805e+06	72	3.5179
Aug., 1969	6624.8	220.827	1.11468e+06	74	3.43016
Sep., 1969	6183	212.292	1.12086e+06	74	3.95062
Oct., 1969	6519.6	218.229	1.12738e+06	74	3.76862
Nov., 1969	6397.7	225.47	1.13378e+06	75	3.5436
Dec., 1969	6963.4	228.308	1.14074e+06	75	3.65179
Jan., 1970	7066.9	232.336	1.14781e+06	74	3.32098
Feb., 1970	6182.2	224.128	1.15399e+06	72	3.1075
Mar., 1970	6785.6	220.371	1.16078e+06	71	2.98768
Apr., 1970	5952.2	206.733	1.16673e+06	71	3.04051
May., 1970	6069.5	198.458	1.1728e+06	69	3.3699
Jun., 1970	6168	208.203	1.17896e+06	70	3.28706

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Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Jul., 1970	6250.5	208.93	1.18522e+06	71	3.02701
Aug., 1970	6285.9	207.227	1.1915e+06	71	3.19417
Sep., 1970	5882.3	200.533	1.19738e+06	72	3.22007
Oct., 1970	6178.3	202.015	1.20356e+06	72	3.23854
Nov., 1970	5822.6	197.098	1.20938e+06	69	3.59207
Dec., 1970	6212.4	202.578	1.2156e+06	69	3.40723
Jan., 1971	6241.4	206.327	1.22184e+06	69	3.49745
Feb., 1971	5691.3	209.496	1.22753e+06	68	3.63428
Mar., 1971	6217.3	208.11	1.23375e+06	69	3.65715
Apr., 1971	6149.6	209.944	1.2399e+06	72	3.96237
May., 1971	6109.2	204.492	1.24601e+06	72	3.75358
Jun., 1971	5904.6	202.443	1.25191e+06	72	3.84451
Jul., 1971	6283.6	209.745	1.25819e+06	72	3.49104
Aug., 1971	6096.9	210.844	1.26429e+06	71	3.37324
Sep., 1971	5907.2	206.666	1.2702e+06	71	3.46333
Oct., 1971	6041.5	197.273	1.27624e+06	70	4.30125
Nov., 1971	5528.3	187.665	1.28177e+06	62	4.13136
Dec., 1971	5696.8	187.549	1.28746e+06	62	4.07975
Jan., 1972	5783.6	189.109	1.29325e+06	62	4.42353
Feb., 1972	5250.8	188.651	1.2985e+06	62	4.50907
Mar., 1972	6210.9	208.77	1.30471e+06	63	5.00739
Apr., 1972	5964.2	207.45	1.31067e+06	68	5.35177
May., 1972	6057	201.341	1.31673e+06	68	5.33445
Jun., 1972	5742.5	195.767	1.32247e+06	70	5.56329
Jul., 1972	6051.8	202.289	1.32853e+06	70	5.44968
Aug., 1972	6074.5	202.203	1.3346e+06	71	5.75005
Sep., 1972	5895.9	199.861	1.3405e+06	70	5.67418
Oct., 1972	5817.1	200.015	1.34631e+06	70	6.09249
Nov., 1972	5296.3	188.872	1.35161e+06	64	4.87559
Dec., 1972	5876.5	192.409	1.35749e+06	64	4.89545
Jan., 1973	5591	187.146	1.36308e+06	63	4.93533
Feb., 1973	4885.7	178.745	1.36796e+06	60	4.77839
Mar., 1973	5269	177.109	1.37323e+06	60	5.03242
Apr., 1973	5548.1	208.054	1.37878e+06	69	5.47914
May., 1973	5948.9	197.474	1.38473e+06	69	6.04327
Jun., 1973	5857.8	198.57	1.39059e+06	69	5.79825
Jul., 1973	6072.5	202.136	1.39666e+06	69	6.37566
Aug., 1973	6084.6	199.495	1.40274e+06	69	6.25152
Sep., 1973	5743.8	193.611	1.40849e+06	69	6.66061
Oct., 1973	6138.4	203.764	1.41463e+06	68	6.31953
Nov., 1973	6007.2	205.961	1.42063e+06	63	6.18731
Dec., 1973	5765.7	188.524	1.4264e+06	63	6.24418
Jan., 1974	5593.7	185.426	1.43199e+06	63	4.81835
Feb., 1974	5302.7	194.001	1.43729e+06	64	6.87163
Mar., 1974	5774	189.053	1.44307e+06	64	6.67227
Apr., 1974	5436	191.016	1.4485e+06	66	7.26832
May., 1974	5094.3	190.738	1.4536e+06	66	7.12647
Jun., 1974	5349.5	204.44	1.45895e+06	67	6.33033

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Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Jul., 1974	5595.4	201.939	1.46454e+06	70	7.19593
Aug., 1974	5846.2	191.941	1.47039e+06	70	6.23166
Sep., 1974	5673.5	192.594	1.47606e+06	72	6.79392
Oct., 1974	5749.7	188.001	1.48181e+06	72	7.13935
Nov., 1974	5758.6	193.566	1.48757e+06	72	7.12513
Dec., 1974	5738.1	186.101	1.49331e+06	70	7.11669
Jan., 1975	5647.5	183.908	1.49896e+06	70	7.41958
Feb., 1975	5060	181.525	1.50402e+06	70	7.16369
Mar., 1975	5518.6	180.938	1.50954e+06	70	7.12574
Apr., 1975	5199.7	176.261	1.51474e+06	69	7.44222
May., 1975	5370.1	177.28	1.52011e+06	69	7.68529
Jun., 1975	5100.1	174.362	1.52521e+06	68	6.94371
Jul., 1975	5443.3	180.441	1.53065e+06	71	7.03671
Aug., 1975	5396.1	178.138	1.53605e+06	71	7.0233
Sep., 1975	5416	182.05	1.54146e+06	71	7.80443
Oct., 1975	5376.5	179.466	1.54684e+06	71	7.75594
Nov., 1975	5232.4	177.119	1.55207e+06	71	7.95505
Dec., 1975	5335.2	173.034	1.55741e+06	71	8.24693
Jan., 1976	5313.1	172.084	1.56272e+06	71	8.67195
Feb., 1976	4838.8	167.336	1.56756e+06	71	8.18532
Mar., 1976	5065.2	166.527	1.57262e+06	71	8.56106
Apr., 1976	2860.1	167.83	1.57548e+06	71	7.9606
May., 1976	4040	152.453	1.57952e+06	67	8.14277
Jun., 1976	4107	150.946	1.58363e+06	62	8.57304
Jul., 1976	4881.6	164.78	1.58851e+06	72	8.57076
Aug., 1976	5052.2	165.873	1.59356e+06	72	7.91049
Sep., 1976	4827	165.261	1.59839e+06	72	7.60052
Oct., 1976	4857	159.901	1.60325e+06	70	7.81229
Nov., 1976	4638.5	162.044	1.60789e+06	70	7.63641
Dec., 1976	4881.4	165.94	1.61277e+06	70	9.02434
Jan., 1977	4844.3	157.325	1.61761e+06	69	9.03311
Feb., 1977	4414.8	159.571	1.62203e+06	70	9.77261
Mar., 1977	4822.6	158.551	1.62685e+06	72	9.75629
Apr., 1977	4658.1	159.251	1.63151e+06	73	9.46101
May., 1977	4773.7	156.301	1.63628e+06	74	9.22582
Jun., 1977	4564.7	153.435	1.64085e+06	74	8.93807
Jul., 1977	4655.4	152.845	1.6455e+06	74	8.78681
Aug., 1977	4710.7	154.449	1.65021e+06	74	9.05222
Sep., 1977	4552.2	152.801	1.65476e+06	74	9.17706
Oct., 1977	4761.1	154.414	1.65952e+06	74	8.79007
Nov., 1977	4647.1	156.424	1.66417e+06	74	9.67926
Dec., 1977	4639.1	150.661	1.66881e+06	74	9.60322
Jan., 1978	4570.9	147.846	1.67338e+06	73	9.54379
Feb., 1978	4140.4	148.092	1.67752e+06	73	9.60975
Mar., 1978	4539.5	149.244	1.68206e+06	73	9.79412
Apr., 1978	4365.3	150.312	1.68643e+06	73	8.71203
May., 1978	4327.9	143.268	1.69076e+06	70	9.42647
Jun., 1978	4168	147.323	1.69492e+06	74	9.64407

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Production Data from November, 1954 to December, 1996 (cont.)

Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Jul., 1978	4443.2	144.69	1.69937e+06	74	9.526
Aug., 1978	4470.1	145.962	1.70384e+06	74	9.42561
Sep., 1978	4300.9	145.588	1.70814e+06	74	9.44196
Oct., 1978	4382	146.474	1.71252e+06	74	8.68133
Nov., 1978	4374.2	146.826	1.71689e+06	75	9.85951
Dec., 1978	4504.3	146.68	1.7214e+06	75	10.0124
Jan., 1979	4406.5	144.871	1.7258e+06	75	10.5226
Feb., 1979	4023.3	144.55	1.72983e+06	74	10.2987
Mar., 1979	4324.1	140.431	1.73415e+06	74	9.9623
Apr., 1979	4146.4	140.755	1.7383e+06	75	10.1539
May., 1979	4406.1	144.069	1.7427e+06	75	10.4446
Jun., 1979	4240.9	143.557	1.74694e+06	75	10.1182
Jul., 1979	4336.6	141.411	1.75128e+06	75	9.80911
Aug., 1979	4346.9	140.601	1.75563e+06	75	9.04886
Sep., 1979	3826.3	134.848	1.75945e+06	73	8.01288
Oct., 1979	4259.2	140.994	1.76371e+06	75	9.6841
Nov., 1979	4055.5	137.669	1.76777e+06	75	9.39613
Dec., 1979	4265.2	137.772	1.77203e+06	75	9.54834
Jan., 1980	4220.1	136.315	1.77625e+06	75	10.3964
Feb., 1980	3989.9	137.781	1.78024e+06	75	10.5794
Mar., 1980	4236.8	137.039	1.78448e+06	75	10.728
Apr., 1980	4027.3	134.43	1.78851e+06	75	11.1475
May., 1980	4126.3	134.92	1.79264e+06	75	11.2945
Jun., 1980	4037.5	135.714	1.79667e+06	75	10.6789
Jul., 1980	4131.8	134.367	1.8008e+06	75	10.3495
Aug., 1980	3892.4	133.454	1.8047e+06	75	9.7277
Sep., 1980	3867.9	132.425	1.80856e+06	75	10.3536
Oct., 1980	4031	131.446	1.8126e+06	75	10.4283
Nov., 1980	3841	130.388	1.81644e+06	74	10.6649
Dec., 1980	4047.6	132.347	1.82048e+06	75	11.2111
Jan., 1981	4074.6	131.616	1.82456e+06	75	12.7868
Feb., 1981	3601.5	129.979	1.82816e+06	75	12.9185
Mar., 1981	4015.7	130.947	1.83218e+06	75	12.9506
Apr., 1981	3849.1	129.745	1.83603e+06	75	12.6461
May., 1981	3147.2	137.583	1.83917e+06	75	13.1612
Jun., 1981	3884	136.68	1.84306e+06	75	12.6151
Jul., 1981	3872.7	127.496	1.84693e+06	75	11.9322
Aug., 1981	3883.7	126.299	1.85081e+06	75	12.7247
Sep., 1981	3858.2	128.965	1.85467e+06	74	12.6803
Oct., 1981	3703.5	120.114	1.85837e+06	75	14.5188
Nov., 1981	3582.2	119.407	1.86196e+06	74	14.1176
Dec., 1981	3684.4	120.471	1.86564e+06	74	14.0509
Jan., 1982	3564.5	115.762	1.86921e+06	72	14.6104
Feb., 1982	3439.9	123.96	1.87265e+06	70	14.1606
Mar., 1982	3716.6	120.865	1.87636e+06	70	13.9664
Apr., 1982	3615.6	121.024	1.87998e+06	71	13.7349
May., 1982	2793.5	104.756	1.88277e+06	73	17.8767
Jun., 1982	3389.3	115.217	1.88616e+06	73	14.6107

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : August 22, 1997 3:50:45 pm
User : Ludwig

Production Data from November, 1954 to December, 1996 (cont.)

Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Jul., 1982	3704.7	119.667	1.88987e+06	73	13.2908
Aug., 1982	3184.9	113.916	1.89305e+06	73	13.8647
Sep., 1982	3622.9	121.1	1.89667e+06	73	13.975
Oct., 1982	3726.2	122.338	1.9004e+06	74	14.8673
Nov., 1982	3645.5	123.055	1.90404e+06	75	15.0823
Dec., 1982	3773.4	122.879	1.90782e+06	75	15.0185
Jan., 1983	3463.8	111.886	1.91128e+06	74	16.5367
Feb., 1983	3259.6	116.936	1.91454e+06	74	16.2441
Mar., 1983	3432.1	110.862	1.91797e+06	74	16.2484
Apr., 1983	3263.8	110.326	1.92124e+06	74	16.3193
May., 1983	3482.4	112.487	1.92472e+06	74	16.7891
Jun., 1983	3386.7	113.839	1.92811e+06	75	15.8147
Jul., 1983	3568.8	116.532	1.93168e+06	75	15.4659
Aug., 1983	3439	111.085	1.93511e+06	75	16.2469
Sep., 1983	3094.5	103.293	1.93821e+06	75	17.2446
Oct., 1983	3693.2	119.457	1.9419e+06	75	15.1566
Nov., 1983	3236.4	107.88	1.94514e+06	75	17.0823
Dec., 1983	3630.3	118.219	1.94877e+06	75	16.3409
Jan., 1984	3324.5	107.386	1.95209e+06	75	16.5127
Feb., 1984	3126.6	107.969	1.95522e+06	75	15.2756
Mar., 1984	3341.8	108.091	1.95856e+06	75	17.2199
Apr., 1984	3263.9	110.485	1.96183e+06	75	18.4417
May., 1984	3059.4	102.55	1.96488e+06	75	19.0046
Jun., 1984	3119	114.634	1.968e+06	75	15.6522
Jul., 1984	3311.9	107.997	1.97132e+06	75	16.8988
Aug., 1984	3023.9	101.218	1.97434e+06	75	17.7372
Sep., 1984	3011.1	100.51	1.97735e+06	75	19.1039
Oct., 1984	3196.9	104.105	1.98055e+06	75	15.9898
Nov., 1984	2966	99.2803	1.98351e+06	75	19.497
Dec., 1984	3089.6	101.298	1.9866e+06	75	19.5126
Jan., 1985	3051.5	98.9676	1.98965e+06	74	19.0965
Feb., 1985	2813.1	100.918	1.99247e+06	74	19.2629
Mar., 1985	3045.6	99.1783	1.99551e+06	74	20.1877
Apr., 1985	3011.6	100.666	1.99852e+06	74	20.2947
May., 1985	3148.1	101.963	2.00167e+06	74	20.1509
Jun., 1985	2978.3	99.8313	2.00465e+06	74	18.6548
Jul., 1985	3298.2	106.824	2.00795e+06	74	17.1882
Aug., 1985	2937	99.1393	2.01089e+06	74	19.0891
Sep., 1985	3073.6	103.314	2.01396e+06	74	19.6726
Oct., 1985	3156.6	101.963	2.01712e+06	74	19.2187
Nov., 1985	3065.3	102.319	2.02018e+06	74	19.8019
Dec., 1985	2902.5	99.7994	2.02308e+06	74	20.5084
Jan., 1986	2814	92.1364	2.0259e+06	71	21.6217
Feb., 1986	2808.9	100.467	2.02871e+06	73	20.3709
Mar., 1986	2660.1	95.4296	2.03137e+06	73	23.2891
Apr., 1986	2928.7	99.2779	2.0343e+06	73	20.2304
May., 1986	2953	95.5148	2.03725e+06	73	21.758
Jun., 1986	2893.8	97.2706	2.04014e+06	73	21.223

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : August 22, 1997 3:50:45 pm
User : Ludwig

Production Data from November, 1954 to December, 1996 (cont.)

Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Jul., 1986	2929	94.7385	2.04307e+06	73	21.6412
Aug., 1986	2912.4	94.3287	2.04598e+06	73	21.3797
Sep., 1986	3143.6	105.079	2.04913e+06	73	19.311
Oct., 1986	2769.7	92.4517	2.0519e+06	73	23.5426
Nov., 1986	2874.1	95.9366	2.05477e+06	73	20.9927
Dec., 1986	2944.3	95.2334	2.05772e+06	73	21.9105
Jan., 1987	2903.9	94.1805	2.06062e+06	73	20.8289
Feb., 1987	2718	97.5067	2.06334e+06	73	19.9452
Mar., 1987	3030	98.0054	2.06637e+06	73	21.2353
Apr., 1987	2838.1	95.6663	2.06921e+06	73	22.421
May., 1987	2847.6	95.4503	2.07205e+06	73	21.9862
Jun., 1987	2824.3	96.8331	2.07488e+06	73	20.4691
Jul., 1987	2898.1	93.4871	2.07778e+06	73	21.7097
Aug., 1987	2872.5	93.6684	2.08065e+06	73	20.7878
Sep., 1987	2858	95.6653	2.08351e+06	73	20.1585
Oct., 1987	2915.3	94.2954	2.08642e+06	73	20.5096
Nov., 1987	2799.1	93.8246	2.08922e+06	73	20.6102
Dec., 1987	2897.2	93.5839	2.09212e+06	73	21.5928
Jan., 1988	2847.5	92.1024	2.09497e+06	73	21.3159
Feb., 1988	2565.9	88.7343	2.09753e+06	73	22.3454
Mar., 1988	2791.5	90.413	2.10032e+06	73	22.1788
Apr., 1988	2682	89.649	2.103e+06	73	22.7938
May., 1988	2911.5	94.8114	2.10592e+06	73	20.0374
Jun., 1988	2691.7	90.6042	2.10861e+06	73	22.0571
Jul., 1988	2960.7	96.9397	2.11157e+06	73	19.5363
Aug., 1988	2595.5	84.751	2.11416e+06	73	21.2984
Sep., 1988	2749.4	92.0301	2.11691e+06	73	19.5962
Oct., 1988	2812.6	91.2195	2.11973e+06	73	19.9124
Nov., 1988	2565.9	85.53	2.12229e+06	73	22.7862
Dec., 1988	2760.8	89.1779	2.12505e+06	73	20.9166
Jan., 1989	2709.5	87.5209	2.12776e+06	73	22.0442
Feb., 1989	2590	92.6378	2.13035e+06	73	21.0103
Mar., 1989	2673.1	86.9301	2.13303e+06	73	21.9604
Apr., 1989	2560.9	85.9603	2.13559e+06	73	21.9239
May., 1989	2671.1	86.3968	2.13826e+06	73	21.6956
Jun., 1989	2577	86.9873	2.14083e+06	73	22.1432
Jul., 1989	2719.4	88.0777	2.14355e+06	73	20.5346
Aug., 1989	2486.9	81.3155	2.14604e+06	73	22.8835
Sep., 1989	2609.2	87.3372	2.14865e+06	73	22.6976
Oct., 1989	2674	86.7243	2.15132e+06	73	23.2782
Nov., 1989	2537.2	84.8089	2.15386e+06	73	23.2885
Dec., 1989	2629.7	84.829	2.15649e+06	73	23.269
Jan., 1990	2534.1	81.8552	2.15903e+06	73	24.1885
Feb., 1990	2350.8	83.9571	2.16138e+06	73	23.0909
Mar., 1990	2578.5	83.9674	2.16395e+06	73	23.8945
Apr., 1990	2412.4	83.9096	2.16637e+06	73	23.9268
May., 1990	2556	84.6124	2.16892e+06	73	22.1733
Jun., 1990	2513.9	84.3827	2.17144e+06	73	22.6617

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : August 22, 1997 3:50:46 pm
User : Ludwig

Production Data from November, 1954 to December, 1996 (cont.)

Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Jul., 1990	2661.7	86.7946	2.1741e+06	73	21.2719
Aug., 1990	2608.5	86.1128	2.17671e+06	73	20.0514
Sep., 1990	2519.5	85.8921	2.17923e+06	73	20.5712
Oct., 1990	2547.8	83.8782	2.18177e+06	73	22.2541
Nov., 1990	2452.4	82.6652	2.18423e+06	73	23.2563
Dec., 1990	2522.7	81.8173	2.18675e+06	73	24.2704
Jan., 1991	2534.8	81.8778	2.18928e+06	72	22.2048
Feb., 1991	2319.2	83.5748	2.1916e+06	73	23.7682
Mar., 1991	2433.6	80.6718	2.19404e+06	73	24.6388
Apr., 1991	2394.5	80.1506	2.19643e+06	73	24.5087
May., 1991	2523.4	81.5096	2.19895e+06	73	23.0728
Jun., 1991	2450.8	83.3133	2.20141e+06	73	22.5365
Jul., 1991	2486.4	80.9683	2.20389e+06	73	23.3006
Aug., 1991	2473.6	80.1166	2.20637e+06	73	22.7279
Sep., 1991	2297.6	77.9949	2.20866e+06	73	25.524
Oct., 1991	2358.4	80.1722	2.21102e+06	73	24.5771
Nov., 1991	2222.9	76.8726	2.21324e+06	73	25.8235
Dec., 1991	2420.2	78.9196	2.21566e+06	73	23.2898
Jan., 1992	2369.8	76.7547	2.21803e+06	72	23.0998
Feb., 1992	2213.4	76.6546	2.22025e+06	72	22.5766
Mar., 1992	2325.7	76.2525	2.22257e+06	73	21.9293
Apr., 1992	2211.6	73.9254	2.22479e+06	73	19.542
May., 1992	2263.4	74.1086	2.22705e+06	73	25.8889
Jun., 1992	2284.2	76.5654	2.22933e+06	73	26.8381
Jul., 1992	2307.3	75.546	2.23164e+06	73	27.8195
Aug., 1992	2304.8	74.6494	2.23394e+06	73	27.5521
Sep., 1992	2138.2	72.2772	2.23608e+06	73	26.7898
Oct., 1992	2251.4	73.0184	2.23833e+06	73	26.786
Nov., 1992	2102.7	71.9897	2.24044e+06	73	25.0083
Dec., 1992	2183.1	70.6124	2.24262e+06	71	18.0793
Jan., 1993	2096.5	67.7201	2.24472e+06	71	18.0844
Feb., 1993	1780.4	63.9665	2.2465e+06	71	21.9715
Mar., 1993	2126.4	68.8712	2.24862e+06	71	20.6885
Apr., 1993	2082.6	69.6134	2.25071e+06	71	20.3712
May., 1993	2146.9	69.9126	2.25285e+06	71	19.8673
Jun., 1993	2022.8	68.5695	2.25488e+06	71	20.7677
Jul., 1993	2124.4	70.1315	2.257e+06	70	19.3862
Aug., 1993	2124.6	71.1163	2.25912e+06	70	14.5496
Sep., 1993	2128.2	71.4361	2.26125e+06	69	17.6826
Oct., 1993	2047.1	66.1244	2.2633e+06	69	18.7531
Nov., 1993	1956	65.5642	2.26526e+06	69	19.5963
Dec., 1993	2029.3	65.6377	2.26729e+06	69	19.6908
Jan., 1994	2029.3	66.2629	2.26931e+06	69	21.5412
Feb., 1994	1848.1	66.7988	2.27116e+06	69	19.03
Mar., 1994	1999.3	64.9299	2.27316e+06	69	18.8154
Apr., 1994	1983	66.2841	2.27515e+06	69	18.7352
May., 1994	1905.2	61.7903	2.27705e+06	69	21.0824
Jun., 1994	1957.4	65.7029	2.27901e+06	69	19.634

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : August 22, 1997 3:50:46 pm
User : Ludwig

Production Data from November, 1954 to December, 1996 (cont.)

Year	Monthly Oil m3	Avg Daily Oil m3/d	Cum Oil m3	Num Wells	WOR m3/m3
Jul., 1994	1979.3	65.7029	2.28099e+06	69	18.4704
Aug., 1994	2006.6	64.9911	2.28299e+06	69	17.2831
Sep., 1994	1960.3	66.0775	2.28495e+06	69	19.9873
Oct., 1994	1962.7	64.0011	2.28692e+06	69	19.974
Nov., 1994	1896.9	63.7613	2.28881e+06	69	20.2481
Dec., 1994	1973.6	63.9223	2.29079e+06	69	19.818
Jan., 1995	1931.9	62.4873	2.29272e+06	69	21.3644
Feb., 1995	1773.1	63.609	2.29449e+06	69	20.4983
Mar., 1995	1913.4	61.7226	2.29641e+06	69	22.3856
Apr., 1995	1711.9	59.8044	2.29812e+06	69	20.8023
May., 1995	1805.1	58.4648	2.29992e+06	67	20.5592
Jun., 1995	1738.5	58.6835	2.30166e+06	67	19.1617
Jul., 1995	1847.2	60.6468	2.30351e+06	67	21.0496
Aug., 1995	1853.6	60.9403	2.30536e+06	67	20.2498
Sep., 1995	1783.3	59.9429	2.30714e+06	67	20.4689
Oct., 1995	1874.1	61.2785	2.30902e+06	67	21.0661
Nov., 1995	1819.7	60.6567	2.31084e+06	66	20.7735
Dec., 1995	1837.7	60.6669	2.31268e+06	66	21.0163
Jan., 1996	1834.9	59.43	2.31451e+06	66	20.7382
Feb., 1996	1677	51.0114	2.31619e+06	65	22.1967
Mar., 1996	1813.6	58.6609	2.318e+06	65	21.9872
Apr., 1996	1741.5	59.7086	2.31974e+06	66	20.6715
May., 1996	1831.5	59.4	2.32158e+06	66	21.6725
Jun., 1996	1748	58.429	2.32332e+06	66	19.8404
Jul., 1996	1748.3	56.5488	2.32507e+06	66	21.4992
Aug., 1996	1755.5	56.9351	2.32683e+06	66	22.7872
Sep., 1996	1702.7	57.6372	2.32853e+06	66	23.4012
Oct., 1996	1735.1	56.1218	2.33026e+06	66	22.3601
Nov., 1996	1707	57.0585	2.33197e+06	66	20.3362
Dec., 1996	1732.6	56.4212	2.3337e+06	66	20.2888

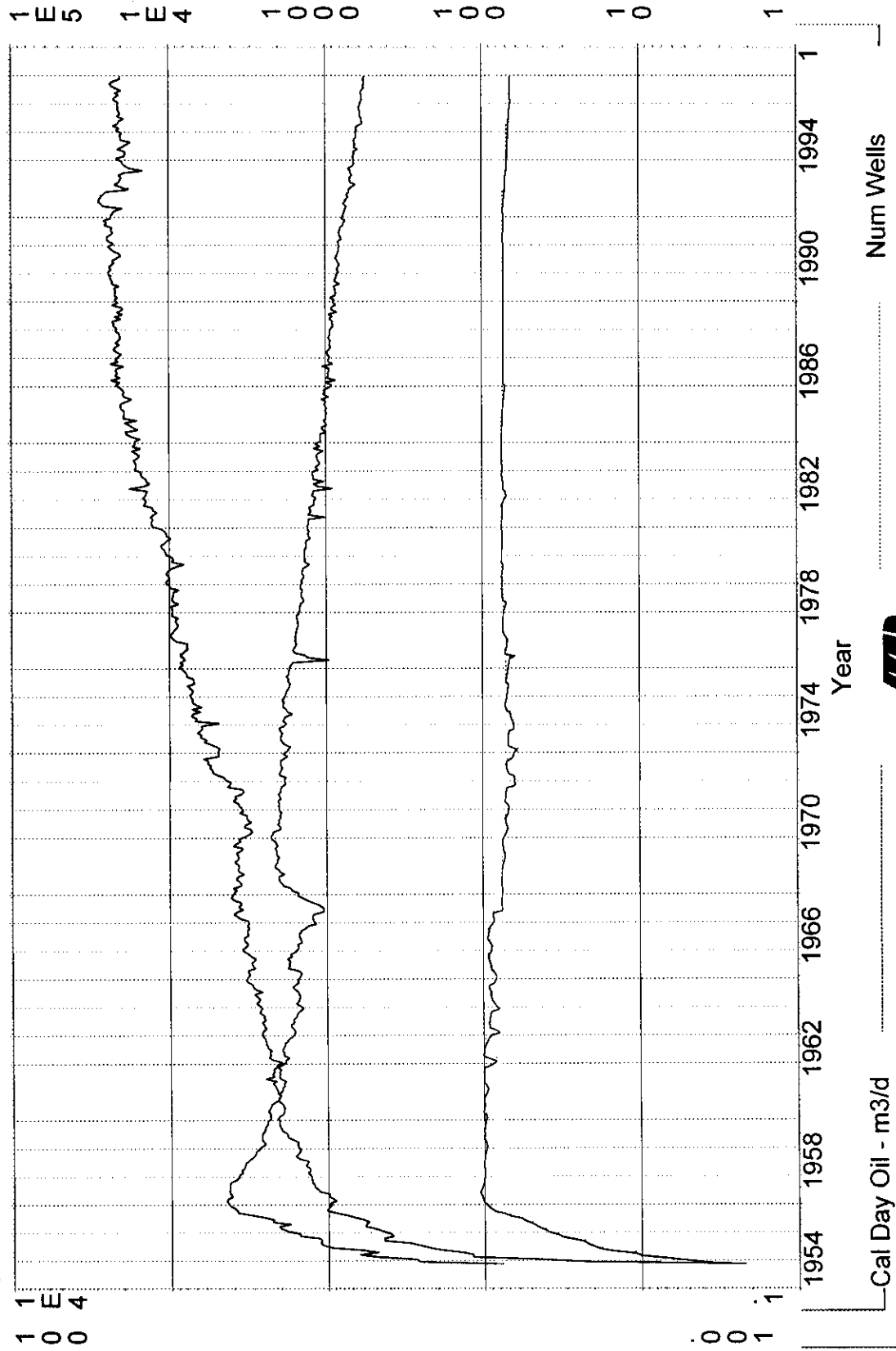
Production Cums

Oil: 2.3337e+06 m3

Gas: 0 E6m3

Water: 1.71153e+

Cond: 0 m3



Production Report

Group : VRU No. 3
 Well : VRU No. 3
 : 000000211
 Hist.Data : 11/54-12/96
 Operator :
 Field :

Date : 8/28/97 10:15:35 am
 User : Ludwig
 On Prod : 02/09
 Status : Unknown
 Zone :

Production Data from January, 1987 to December, 1996

Year	Avg Daily Oil m3/d	Cal Day Oil m3/d
Jan., 1987	94.1805	93.6742
Feb., 1987	97.5067	97.0714
Mar., 1987	98.0054	97.742
Apr., 1987	95.6663	94.6033
May., 1987	95.4503	91.8581
Jun., 1987	96.8331	94.1433
Jul., 1987	93.4871	93.4871
Aug., 1987	93.6684	92.6613
Sep., 1987	95.6653	95.2667
Oct., 1987	94.2954	94.0419
Nov., 1987	93.8246	93.3033
Dec., 1987	93.5839	93.4581
Jan., 1988	92.1024	91.8548
Feb., 1988	88.7343	88.4793
Mar., 1988	90.413	90.0484
Apr., 1988	89.649	89.4
May., 1988	94.8114	93.9193
Jun., 1988	90.6042	89.7233
Jul., 1988	96.9397	95.5064
Aug., 1988	84.751	83.7258
Sep., 1988	92.0301	91.6467
Oct., 1988	91.2195	90.729
Nov., 1988	85.53	85.53
Dec., 1988	89.1779	89.058
Jan., 1989	87.5209	87.4032
Feb., 1989	92.6378	92.5
Mar., 1989	86.9301	86.229
Apr., 1989	85.9603	85.3633
May., 1989	86.3968	86.1645
Jun., 1989	86.9873	85.9
Jul., 1989	88.0777	87.7226
Aug., 1989	81.3155	80.2226
Sep., 1989	87.3372	86.9733
Oct., 1989	86.7243	86.2581
Nov., 1989	84.8089	84.5733
Dec., 1989	84.829	84.829
Jan., 1990	81.8552	81.7452
Feb., 1990	83.9571	83.9571
Mar., 1990	83.9674	83.1774
Apr., 1990	83.9096	80.4133
May., 1990	84.6124	82.4516
Jun., 1990	84.3827	83.7967
Jul., 1990	86.7946	85.8613
Aug., 1990	86.1128	84.1452

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : 8/28/97 10:15:35 am
User : Ludwig

Production Data from January, 1987 to December, 1996 (cont.)

Year	Avg Daily Oil m3/d	Cal Day Oil m3/d
Sep., 1990	85.8921	83.9833
Oct., 1990	83.8782	82.1871
Nov., 1990	82.6652	81.7467
Dec., 1990	81.8173	81.3774
Jan., 1991	81.8778	81.7678
Feb., 1991	83.5748	82.8286
Mar., 1991	80.6718	78.5032
Apr., 1991	80.1506	79.8167
May., 1991	81.5096	81.4
Jun., 1991	83.3133	81.6933
Jul., 1991	80.9683	80.2065
Aug., 1991	80.1166	79.7935
Sep., 1991	77.9949	76.5867
Oct., 1991	80.1722	76.0774
Nov., 1991	76.8726	74.0967
Dec., 1991	78.9196	78.071
Jan., 1992	76.7547	76.4452
Feb., 1992	76.6546	76.3242
Mar., 1992	76.2525	75.0226
Apr., 1992	73.9254	73.72
May., 1992	74.1086	73.0129
Jun., 1992	76.5654	76.14
Jul., 1992	75.546	74.429
Aug., 1992	74.6494	74.3484
Sep., 1992	72.2772	71.2733
Oct., 1992	73.0184	72.6258
Nov., 1992	71.9897	70.09
Dec., 1992	70.6124	70.4226
Jan., 1993	67.7201	67.629
Feb., 1993	63.9665	63.5857
Mar., 1993	68.8712	68.5935
Apr., 1993	69.6134	69.42
May., 1993	69.9126	69.2548
Jun., 1993	68.5695	67.4267
Jul., 1993	70.1315	68.529
Aug., 1993	71.1163	68.5355
Sep., 1993	71.4361	70.94
Oct., 1993	66.1244	66.0355
Nov., 1993	65.5642	65.2
Dec., 1993	65.6377	65.4613
Jan., 1994	66.2629	65.4613
Feb., 1994	66.7988	66.0036
Mar., 1994	64.9299	64.4936
Apr., 1994	66.2841	66.1
May., 1994	61.7903	61.4581
Jun., 1994	65.7029	65.2467
Jul., 1994	65.7029	63.8484
Aug., 1994	64.9911	64.729

.938
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.996

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : 8/28/97 10:15:35 am
User : Ludwig

Production Data from January, 1987 to December, 1996 (cont.)

Year	Avg Daily Oil m3/d	Cal Day Oil m3/d	
Sep., 1994	66.0775	65.3433	.989
Oct., 1994	64.0011	63.3129	.989
Nov., 1994	63.7613	63.23	.992
Dec., 1994	63.9223	63.6645	.996
Jan., 1995	62.4873	62.3194	.997
Feb., 1995	63.609	63.325	.996
Mar., 1995	61.7226	61.7226	1.0
Apr., 1995	59.8044	57.0633	.954
May., 1995	58.4648	58.229	.996
Jun., 1995	58.6835	57.95	.983
Jul., 1995	60.6468	59.5871	.983
Aug., 1995	60.9403	59.7935	.981
Sep., 1995	59.9429	59.4433	.992
Oct., 1995	61.2785	60.4548	.987
Nov., 1995	60.6567	60.6567	1.0
Dec., 1995	60.6669	59.2806	.977
Jan., 1996	59.43	59.1903	.996
Feb., 1996	51.0114	57.8276	1.13
Mar., 1996	58.6609	58.5032	.997
Apr., 1996	59.7086	58.05	.972
May., 1996	59.4	59.0806	.995
Jun., 1996	58.429	58.2667	.997
Jul., 1996	56.5488	56.3968	.997
Aug., 1996	56.9351	56.629	.995
Sep., 1996	57.6372	56.7567	.985
Oct., 1996	56.1218	55.971	.997
Nov., 1996	57.0585	56.9	.997
Dec., 1996	56.4212	55.8903	.991

Cal Day Oil
Avg Daily Oil

Avg EXCLUDING FEB96 = 0.993

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : 8/28/97 11:49:58 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from January, 1987 to December, 1996

Year	Monthly Oil m3	Cal Day Oil m3/d	Cum Oil m3	WOR m3/m3	Num Wells
Jan., 1987	2903.9	93.6742	2.06062e+06	20.8289	73
Feb., 1987	2718	97.0714	2.06334e+06	19.9452	73
Mar., 1987	3030	97.742	2.06637e+06	21.2353	73
Apr., 1987	2838.1	94.6033	2.06921e+06	22.421	73
May., 1987	2847.6	91.8581	2.07205e+06	21.9862	73
Jun., 1987	2824.3	94.1433	2.07488e+06	20.4691	73
Jul., 1987	2898.1	93.4871	2.07778e+06	21.7097	73
Aug., 1987	2872.5	92.6613	2.08065e+06	20.7878	73
Sep., 1987	2858	95.2667	2.08351e+06	20.1585	73
Oct., 1987	2915.3	94.0419	2.08642e+06	20.5096	73
Nov., 1987	2799.1	93.3033	2.08922e+06	20.6102	73
Dec., 1987	2897.2	93.4581	2.09212e+06	21.5928	73
Jan., 1988	2847.5	91.8548	2.09497e+06	21.3159	73
Feb., 1988	2565.9	88.4793	2.09753e+06	22.3454	73
Mar., 1988	2791.5	90.0484	2.10032e+06	22.1788	73
Apr., 1988	2682	89.4	2.103e+06	22.7938	73
May., 1988	2911.5	93.9193	2.10592e+06	20.0374	73
Jun., 1988	2691.7	89.7233	2.10861e+06	22.0571	73
Jul., 1988	2960.7	95.5064	2.11157e+06	19.5363	73
Aug., 1988	2595.5	83.7258	2.11416e+06	21.2984	73
Sep., 1988	2749.4	91.6467	2.11691e+06	19.5962	73
Oct., 1988	2812.6	90.729	2.11973e+06	19.9124	73
Nov., 1988	2565.9	85.53	2.12229e+06	22.7862	73
Dec., 1988	2760.8	89.058	2.12505e+06	20.9166	73
Jan., 1989	2709.5	87.4032	2.12776e+06	22.0442	73
Feb., 1989	2590	92.5	2.13035e+06	21.0103	73
Mar., 1989	2673.1	86.229	2.13303e+06	21.9604	73
Apr., 1989	2560.9	85.3633	2.13559e+06	21.9239	73
May., 1989	2671.1	86.1645	2.13826e+06	21.6956	73
Jun., 1989	2577	85.9	2.14083e+06	22.1432	73
Jul., 1989	2719.4	87.7226	2.14355e+06	20.5346	73
Aug., 1989	2486.9	80.2226	2.14604e+06	22.8835	73
Sep., 1989	2609.2	86.9733	2.14865e+06	22.6976	73
Oct., 1989	2674	86.2581	2.15132e+06	23.2782	73
Nov., 1989	2537.2	84.5733	2.15386e+06	23.2885	73
Dec., 1989	2629.7	84.829	2.15649e+06	23.269	73
Jan., 1990	2534.1	81.7452	2.15903e+06	24.1885	73
Feb., 1990	2350.8	83.9571	2.16138e+06	23.0909	73
Mar., 1990	2578.5	83.1774	2.16395e+06	23.8945	73
Apr., 1990	2412.4	80.4133	2.16637e+06	23.9268	73
May., 1990	2556	82.4516	2.16892e+06	22.1733	73
Jun., 1990	2513.9	83.7967	2.17144e+06	22.6617	73
Jul., 1990	2661.7	85.8613	2.1741e+06	21.2719	73
Aug., 1990	2608.5	84.1452	2.17671e+06	20.0514	73

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : 8/28/97 11:49:58 am
User : Ludwig

Production Data from January, 1987 to December, 1996 (cont.)

Year	Monthly Oil m3	Cal Day Oil m3/d	Cum Oil m3	WOR m3/m3	Num Wells
Sep., 1990	2519.5	83.9833	2.17923e+06	20.5712	73
Oct., 1990	2547.8	82.1871	2.18177e+06	22.2541	73
Nov., 1990	2452.4	81.7467	2.18423e+06	23.2563	73
Dec., 1990	2522.7	81.3774	2.18675e+06	24.2704	73
Jan., 1991	2534.8	81.7678	2.18928e+06	22.2048	72
Feb., 1991	2319.2	82.8286	2.1916e+06	23.7682	73
Mar., 1991	2433.6	78.5032	2.19404e+06	24.6388	73
Apr., 1991	2394.5	79.8167	2.19643e+06	24.5087	73
May., 1991	2523.4	81.4	2.19895e+06	23.0728	73
Jun., 1991	2450.8	81.6933	2.20141e+06	22.5365	73
Jul., 1991	2486.4	80.2065	2.20389e+06	23.3006	73
Aug., 1991	2473.6	79.7935	2.20637e+06	22.7279	73
Sep., 1991	2297.6	76.5867	2.20866e+06	25.524	73
Oct., 1991	2358.4	76.0774	2.21102e+06	24.5771	73
Nov., 1991	2222.9	74.0967	2.21324e+06	25.8235	73
Dec., 1991	2420.2	78.071	2.21566e+06	23.2898	73
Jan., 1992	2369.8	76.4452	2.21803e+06	23.0998	72
Feb., 1992	2213.4	76.3242	2.22025e+06	22.5766	72
Mar., 1992	2325.7	75.0226	2.22257e+06	21.9293	73
Apr., 1992	2211.6	73.72	2.22479e+06	19.542	73
May., 1992	2263.4	73.0129	2.22705e+06	25.8889	73
Jun., 1992	2284.2	76.14	2.22933e+06	26.8381	73
Jul., 1992	2307.3	74.429	2.23164e+06	27.8195	73
Aug., 1992	2304.8	74.3484	2.23394e+06	27.5521	73
Sep., 1992	2138.2	71.2733	2.23608e+06	26.7898	73
Oct., 1992	2251.4	72.6258	2.23833e+06	26.786	73
Nov., 1992	2102.7	70.09	2.24044e+06	25.0083	73
Dec., 1992	2183.1	70.4226	2.24262e+06	18.0793	71
Jan., 1993	2096.5	67.629	2.24472e+06	18.0844	71
Feb., 1993	1780.4	63.5857	2.2465e+06	21.9715	71
Mar., 1993	2126.4	68.5935	2.24862e+06	20.6885	71
Apr., 1993	2082.6	69.42	2.25071e+06	20.3712	71
May., 1993	2146.9	69.2548	2.25285e+06	19.8673	71
Jun., 1993	2022.8	67.4267	2.25488e+06	20.7677	71
Jul., 1993	2124.4	68.529	2.257e+06	19.3862	70
Aug., 1993	2124.6	68.5355	2.25912e+06	14.5496	70
Sep., 1993	2128.2	70.94	2.26125e+06	17.6826	69
Oct., 1993	2047.1	66.0355	2.2633e+06	18.7531	69
Nov., 1993	1956	65.2	2.26526e+06	19.5963	69
Dec., 1993	2029.3	65.4613	2.26729e+06	19.6908	69
Jan., 1994	2029.3	65.4613	2.26931e+06	21.5412	69
Feb., 1994	1848.1	66.0036	2.27116e+06	19.03	69
Mar., 1994	1999.3	64.4936	2.27316e+06	18.8154	69
Apr., 1994	1983	66.1	2.27515e+06	18.7352	69
May., 1994	1905.2	61.4581	2.27705e+06	21.0824	69
Jun., 1994	1957.4	65.2467	2.27901e+06	19.634	69
Jul., 1994	1979.3	63.8484	2.28099e+06	18.4704	69
Aug., 1994	2006.6	64.729	2.28299e+06	17.2831	69

Production Report

Group : VRU No. 3
Well : VRU No. 3
: 000000211

Date : 8/28/97 11:49:58 am
User : Ludwig

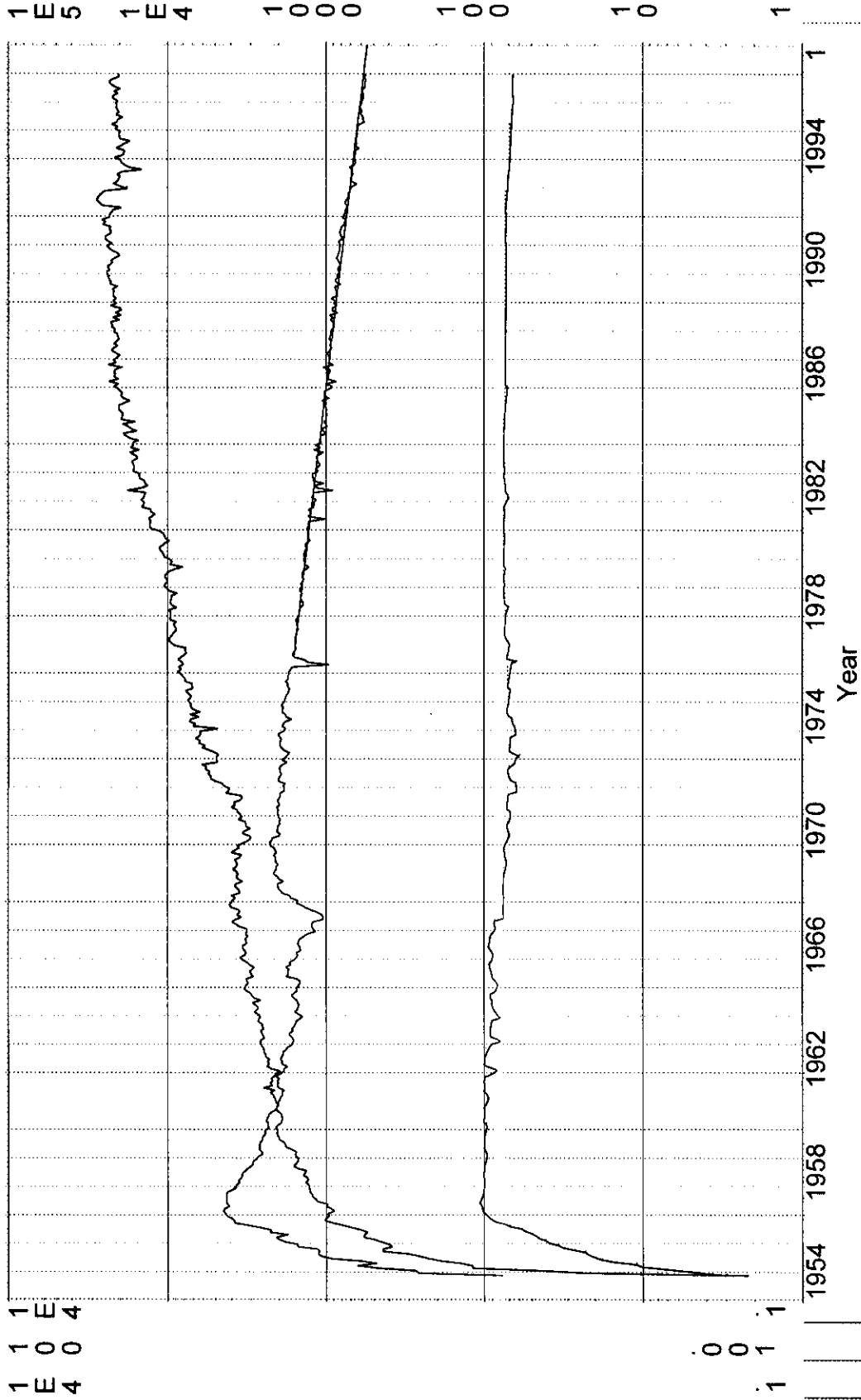
Production Data from January, 1987 to December, 1996 (cont.)

Year	Monthly Oil m3	Cal Day Oil m3/d	Cum Oil m3	WOR m3/m3	Num Wells
Sep., 1994	1960.3	65.3433	2.28495e+06	19.9873	69
Oct., 1994	1962.7	63.3129	2.28692e+06	19.974	69
Nov., 1994	1896.9	63.23	2.28881e+06	20.2481	69
Dec., 1994	1973.6	63.6645	2.29079e+06	19.818	69
Jan., 1995	1931.9	62.3194	2.29272e+06	21.3644	69
Feb., 1995	1773.1	63.325	2.29449e+06	20.4983	69
Mar., 1995	1913.4	61.7226	2.29641e+06	22.3856	69
Apr., 1995	1711.9	57.0633	2.29812e+06	20.8023	69
May., 1995	1805.1	58.229	2.29992e+06	20.5592	67
Jun., 1995	1738.5	57.95	2.30166e+06	19.1617	67
Jul., 1995	1847.2	59.5871	2.30351e+06	21.0496	67
Aug., 1995	1853.6	59.7935	2.30536e+06	20.2498	67
Sep., 1995	1783.3	59.4433	2.30714e+06	20.4689	67
Oct., 1995	1874.1	60.4548	2.30902e+06	21.0661	67
Nov., 1995	1819.7	60.6567	2.31084e+06	20.7735	66
Dec., 1995	1837.7	59.2806	2.31268e+06	21.0163	66
Jan., 1996	1834.9	59.1903	2.31451e+06	20.7382	66
Feb., 1996	1677	57.8276	2.31619e+06	22.1967	65
Mar., 1996	1813.6	58.5032	2.318e+06	21.9872	65
Apr., 1996	1741.5	58.05	2.31974e+06	20.6715	66
May., 1996	1831.5	59.0806	2.32158e+06	21.6725	66
Jun., 1996	1748	58.2667	2.32332e+06	19.8404	66
Jul., 1996	1748.3	56.3968	2.32507e+06	21.4992	66
Aug., 1996	1755.5	56.629	2.32683e+06	22.7872	66
Sep., 1996	1702.7	56.7567	2.32853e+06	23.4012	66
Oct., 1996	1735.1	55.971	2.33026e+06	22.3601	66
Nov., 1996	1707	56.9	2.33197e+06	20.3362	66
Dec., 1996	1732.6	55.8903	2.3337e+06	20.2888	66

Historical Production (Rate-Time)

qi: 159.441 m3/d, Aug, 1976
 qf: 5.16019 m3/d, Jun, 2045
 di(Exp): 4.85995 CTD: 2.3337e+06 m3
 RR: 385769 m3 Tot: 2.71947e+06 m3

Production Cums
 Oil: 2.3337e+06 m3
 Gas: 0 E6m3
 Water: 1.71153e+07 m3
 Cond: 0 m3



Num Wells



Cal Day Oil - m3/d

WOR - m3/m3

Historical Production - m3/d

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : 8/28/97 11:21:50 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from January, 1994 to June, 1997

Year	Cal Day Oil m3/d	Historical Production m3/d
Jan., 1994	65.4613	66.8574
Feb., 1994	66.0036	66.5804
Mar., 1994	64.4936	66.3045
Apr., 1994	66.1	66.0298
May., 1994	61.4581	65.7563
Jun., 1994	65.2467	65.4838
Jul., 1994	63.8484	65.2125
Aug., 1994	64.729	64.9423
Sep., 1994	65.3433	64.6733
Oct., 1994	63.3129	64.4053
Nov., 1994	63.23	64.1385
Dec., 1994	63.6645	63.8728
Jan., 1995	62.3194	63.6081
Feb., 1995	63.325	63.3446
Mar., 1995	61.7226	63.0822
Apr., 1995	57.0633	62.8208
May., 1995	58.229	62.5605
Jun., 1995	57.95	62.3013
Jul., 1995	59.5871	62.0432
Aug., 1995	59.7935	61.7862
Sep., 1995	59.4433	61.5302
Oct., 1995	60.4548	61.2753
Nov., 1995	60.6567	61.0214
Dec., 1995	59.2806	60.7686
Jan., 1996	59.1903	60.3515
Feb., 1996	57.8276	60.1014
Mar., 1996	58.5032	59.8524
Apr., 1996	58.05	59.6044
May., 1996	59.0806	59.3575
Jun., 1996	58.2667	59.1116
Jul., 1996	56.3968	58.8667
Aug., 1996	56.629	58.6228
Sep., 1996	56.7567	58.3799
Oct., 1996	55.971	58.138
Nov., 1996	56.9	57.8972
Dec., 1996	55.8903	57.6573
Jan., 1997		57.5757
Feb., 1997		57.3372
Mar., 1997		57.0996
Apr., 1997		56.8631
May., 1997		56.6275
Jun., 1997		56.3929

*above
actual prod.*

Historical Production (Rate-Time)

qi: 112.319 m3/d, Sep, 1983

qf: 3.56592 m3/d, Jul, 2052

di(Exp): 4.87893 CTD: 2.3337e+06 m3

RR: 394598 m3 Tot: 2.7283e+06 m3

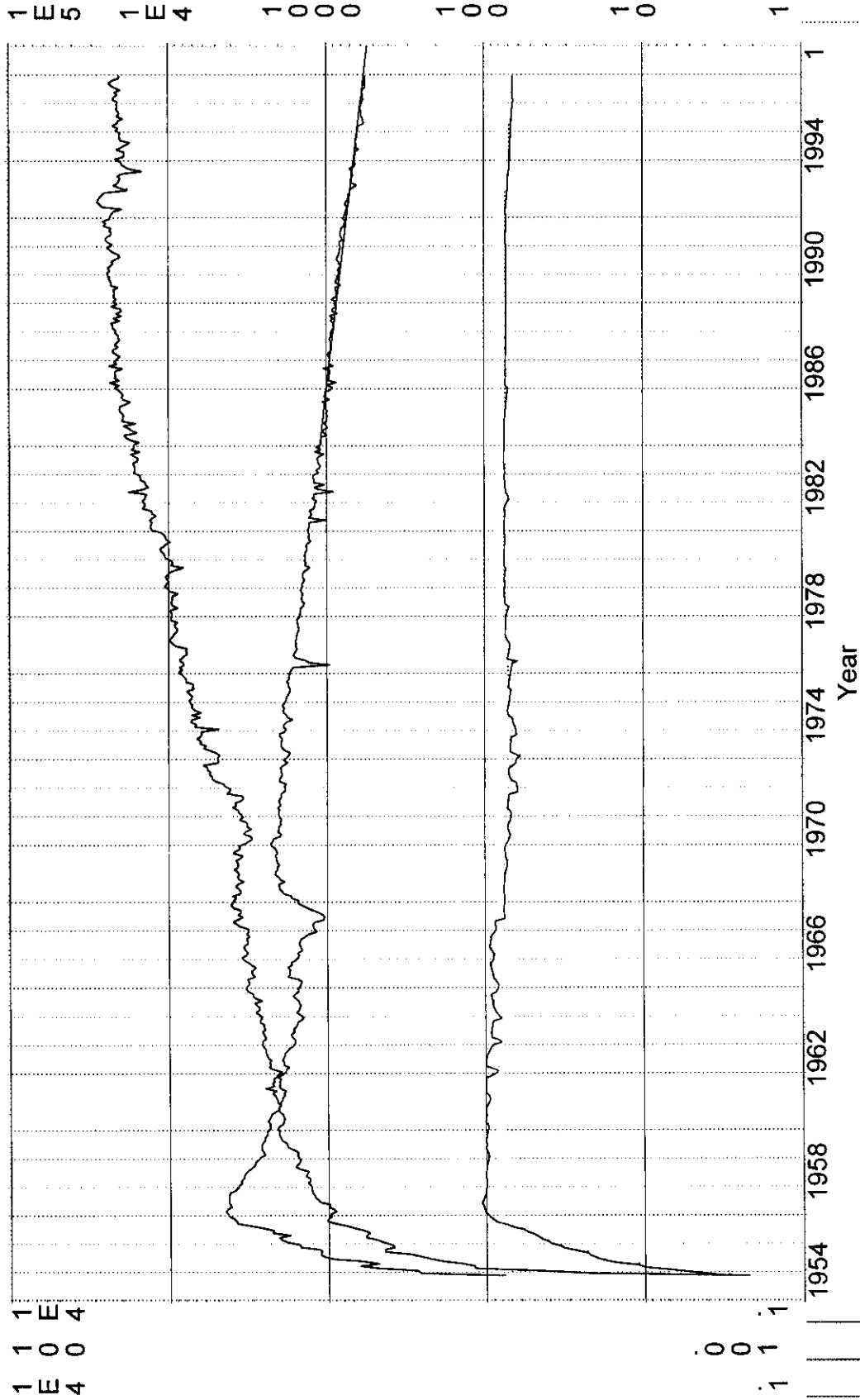
Production Cums

Oil: 2.3337e+06 m3

Gas: 0 E6m3

Water: 1.71153e+07 m3

Cond: 0 m3



Num Wells



Cal Day Oil - m3/d

WOR - m3/m3

Historical Production - m3/d

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : 8/28/97 11:23:29 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

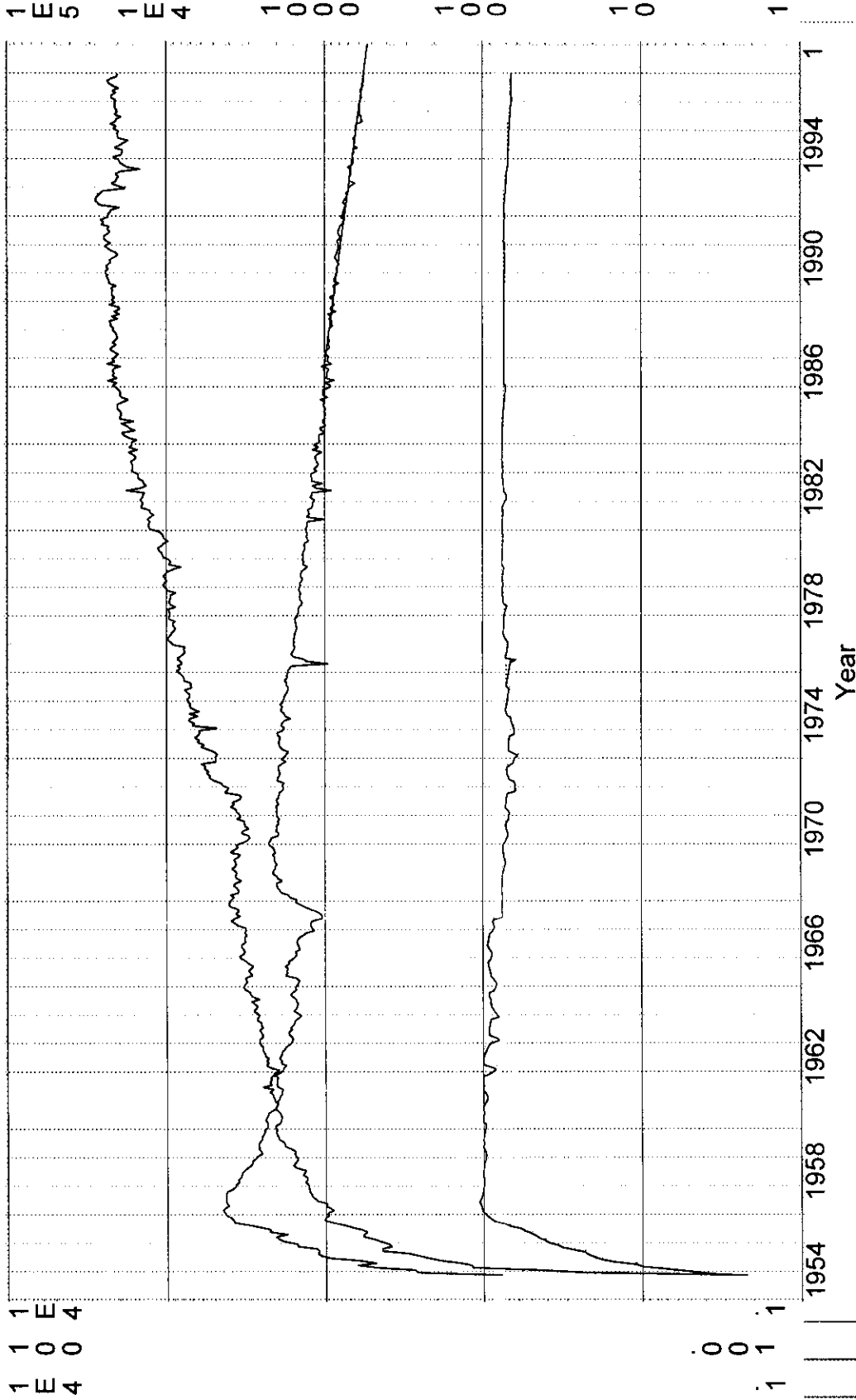
Production Data from January, 1994 to June, 1997

Year	Cal Day Oil m3/d	Historical Production m3/d
Jan., 1994	65.4613	66.7067
Feb., 1994	66.0036	66.4292
Mar., 1994	64.4936	66.1529
Apr., 1994	66.1	65.8777
May., 1994	61.4581	65.6037
Jun., 1994	65.2467	65.3308
Jul., 1994	63.8484	65.0591
Aug., 1994	64.729	64.7884
Sep., 1994	65.3433	64.519
Oct., 1994	63.3129	64.2506
Nov., 1994	63.23	63.9833
Dec., 1994	63.6645	63.7172
Jan., 1995	62.3194	63.4521
Feb., 1995	63.325	63.1882
Mar., 1995	61.7226	62.9254
Apr., 1995	57.0633	62.6636
May., 1995	58.229	62.403
Jun., 1995	57.95	62.1434
Jul., 1995	59.5871	61.8849
Aug., 1995	59.7935	61.6275
Sep., 1995	59.4433	61.3711
Oct., 1995	60.4548	61.1158
Nov., 1995	60.6567	60.8616
Dec., 1995	59.2806	60.6085
Jan., 1996	59.1903	60.1914
Feb., 1996	57.8276	59.9411
Mar., 1996	58.5032	59.6917
Apr., 1996	58.05	59.4434
May., 1996	59.0806	59.1962
Jun., 1996	58.2667	58.9499
Jul., 1996	56.3968	58.7047
Aug., 1996	56.629	58.4605
Sep., 1996	56.7567	58.2174
Oct., 1996	55.971	57.9752
Nov., 1996	56.9	57.7341
Dec., 1996	55.8903	57.4939
Jan., 1997		57.4116
Feb., 1997		57.1728
Mar., 1997		56.935
Apr., 1997		56.6982
May., 1997		56.4623
Jun., 1997		56.2274

Historical Production (Rate-Time)

qi: 101.248 m3/d, Jul, 1986
 qf: 2.18143 m3/d, May, 2055
 di(Exp): 5.41625 CTD: 2.3337e+06 m3
 RR: 355544 m3 Tot: 2.68925e+06 m3

Production Cums
 Oil: 2.3337e+06 m3
 Gas: 0 E6m3
 Water: 1.71153e+07 m3
 Cond: 0 m3



Num Wells



Cal Day Oil - m3/d

WOR - m3/m3

Historical Production - m3/d

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : 8/28/97 11:25:01 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from January, 1994 to June, 1997

Year	Cal Day Oil m3/d	Historical Production m3/d
Jan., 1994	65.4613	66.3735
Feb., 1994	66.0036	66.0662
Mar., 1994	64.4936	65.7603
Apr., 1994	66.1	65.4559
May., 1994	61.4581	65.1528
Jun., 1994	65.2467	64.8512
Jul., 1994	63.8484	64.551
Aug., 1994	64.729	64.2521
Sep., 1994	65.3433	63.9547
Oct., 1994	63.3129	63.6586
Nov., 1994	63.23	63.3639
Dec., 1994	63.6645	63.0705
Jan., 1995	62.3194	62.7785
Feb., 1995	63.325	62.4879
Mar., 1995	61.7226	62.1986
Apr., 1995	57.0633	61.9106
May., 1995	58.229	61.624
Jun., 1995	57.95	61.3387
Jul., 1995	59.5871	61.0547
Aug., 1995	59.7935	60.7721
Sep., 1995	59.4433	60.4907
Oct., 1995	60.4548	60.2107
Nov., 1995	60.6567	59.9319
Dec., 1995	59.2806	59.6545
Jan., 1996	59.1903	59.216
Feb., 1996	57.8276	58.9419
Mar., 1996	58.5032	58.669
Apr., 1996	58.05	58.3974
May., 1996	59.0806	58.127 *
Jun., 1996	58.2667	57.8579 *
Jul., 1996	56.3968	57.5901
Aug., 1996	56.629	57.3235
Sep., 1996	56.7567	57.0581
Oct., 1996	55.971	56.7939
Nov., 1996	56.9	56.531 *
Dec., 1996	55.8903	56.2693
Jan., 1997		56.1622
Feb., 1997		55.9022
Mar., 1997		55.6434
Apr., 1997		55.3858
May., 1997		55.1294
Jun., 1997		54.8741

* - below

VRU No. 3 Data 11/54-12/96

Historical Production (Rate-Time)

qi: 93.6223 m3/d, May, 1988

qf: 1.50262 m3/d, Mar, 2057

di(Exp): 5.82326 CTD: 2.3337e+06 m3

RR: 330413 m3 Tot: 2.66412e+06 m3

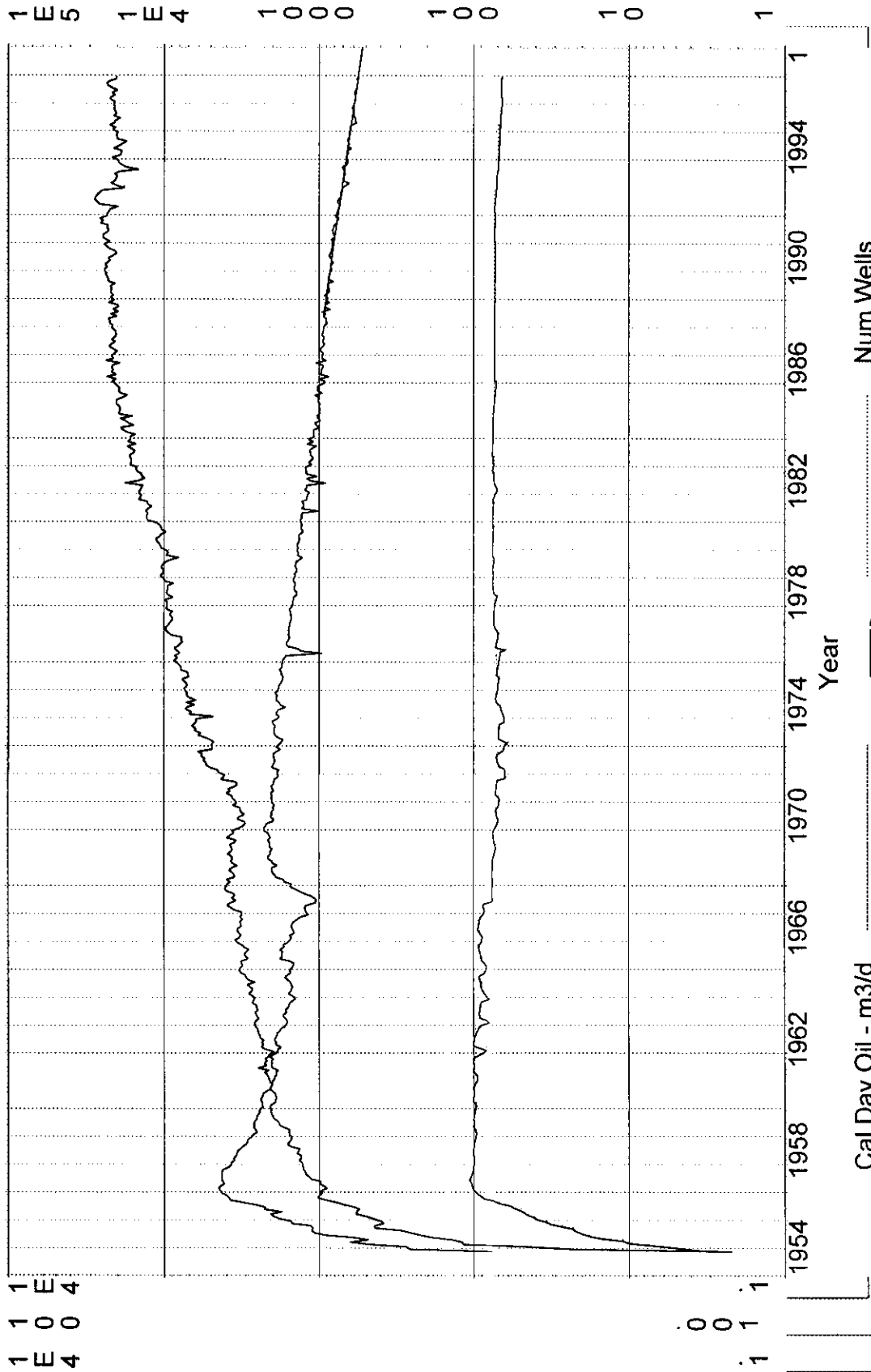
Production Cums

Oil: 2.3337e+06 m3

Gas: 0 E6m3

Water: 1.71153e+07 m3

Cond: 0 m3



Num Wells



Cal Day Oil - m3/d

WOR - m3/m3

Historical Production - m3/d

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : 8/28/97 11:26:07 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from January, 1994 to June, 1997

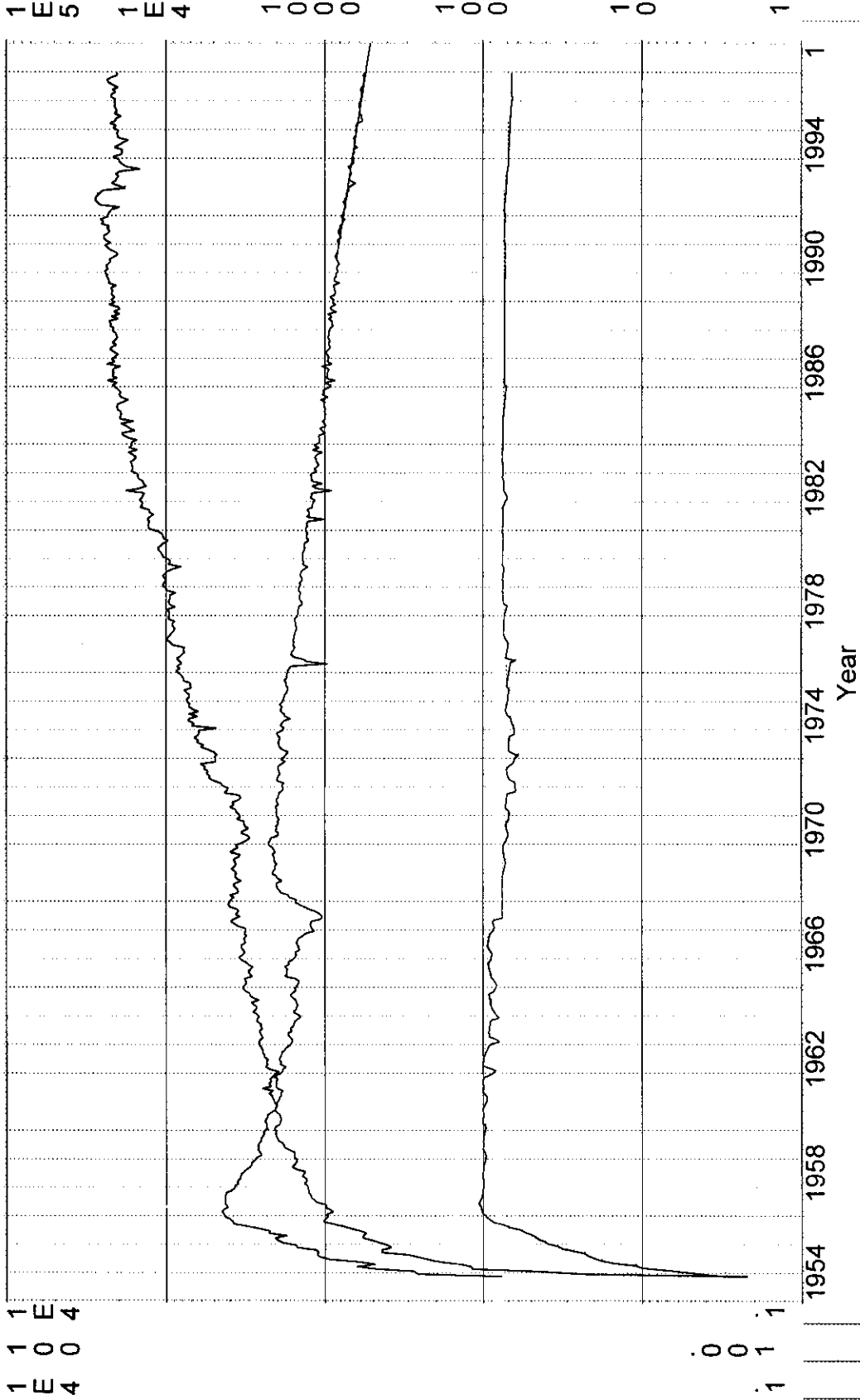
Year	Cal Day Oil m3/d	Historical Production m3/d
Jan., 1994	65.4613	66.4882
Feb., 1994	66.0036	66.1566
Mar., 1994	64.4936	65.8266
Apr., 1994	66.1	65.4983
May., 1994	61.4581	65.1717
Jun., 1994	65.2467	64.8466
Jul., 1994	63.8484	64.5232
Aug., 1994	64.729	64.2014
Sep., 1994	65.3433	63.8812
Oct., 1994	63.3129	63.5626
Nov., 1994	63.23	63.2456
Dec., 1994	63.6645	62.9302
Jan., 1995	62.3194	62.6164
Feb., 1995	63.325	62.3041
Mar., 1995	61.7226	61.9934
Apr., 1995	57.0633	61.6842
May., 1995	58.229	61.3765
Jun., 1995	57.95	61.0704
Jul., 1995	59.5871	60.7659
Aug., 1995	59.7935	60.4628
Sep., 1995	59.4433	60.1613
Oct., 1995	60.4548	59.8612
Nov., 1995	60.6567	59.5627
Dec., 1995	59.2806	59.2656
Jan., 1996	59.1903	58.8089
Feb., 1996	57.8276	58.5156
Mar., 1996	58.5032	58.2238
Apr., 1996	58.05	57.9334
May., 1996	59.0806	57.6445
Jun., 1996	58.2667	57.357
Jul., 1996	56.3968	57.071
Aug., 1996	56.629	56.7863
Sep., 1996	56.7567	56.5031
Oct., 1996	55.971	56.2213
Nov., 1996	56.9	55.9409
Dec., 1996	55.8903	55.6619
Jan., 1997		55.5361
Feb., 1997		55.2591
Mar., 1997		54.9835
Apr., 1997		54.7093
May., 1997		54.4364
Jun., 1997		54.165

x below

Historical Production (Rate-Time)

qi: 84.4562 m3/d, Jun, 1990
 qf: 0.938849 m3/d, Apr, 2059
 di(Exp): 6.3201 CTD: 2.3337e+06 m3
 RR: 301963 m3 Tot: 2.63567e+06 m3

Production Cums
 Oil: 2.3337e+06 m3
 Gas: 0 E6m3
 Water: 1.71153e+07 m3
 Cond: 0 m3



Num Wells



Cal Day Oil - m3/d

WOR - m3/m3

Historical Production - m3/d

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : 8/28/97 11:27:54 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from January, 1994 to June, 1997

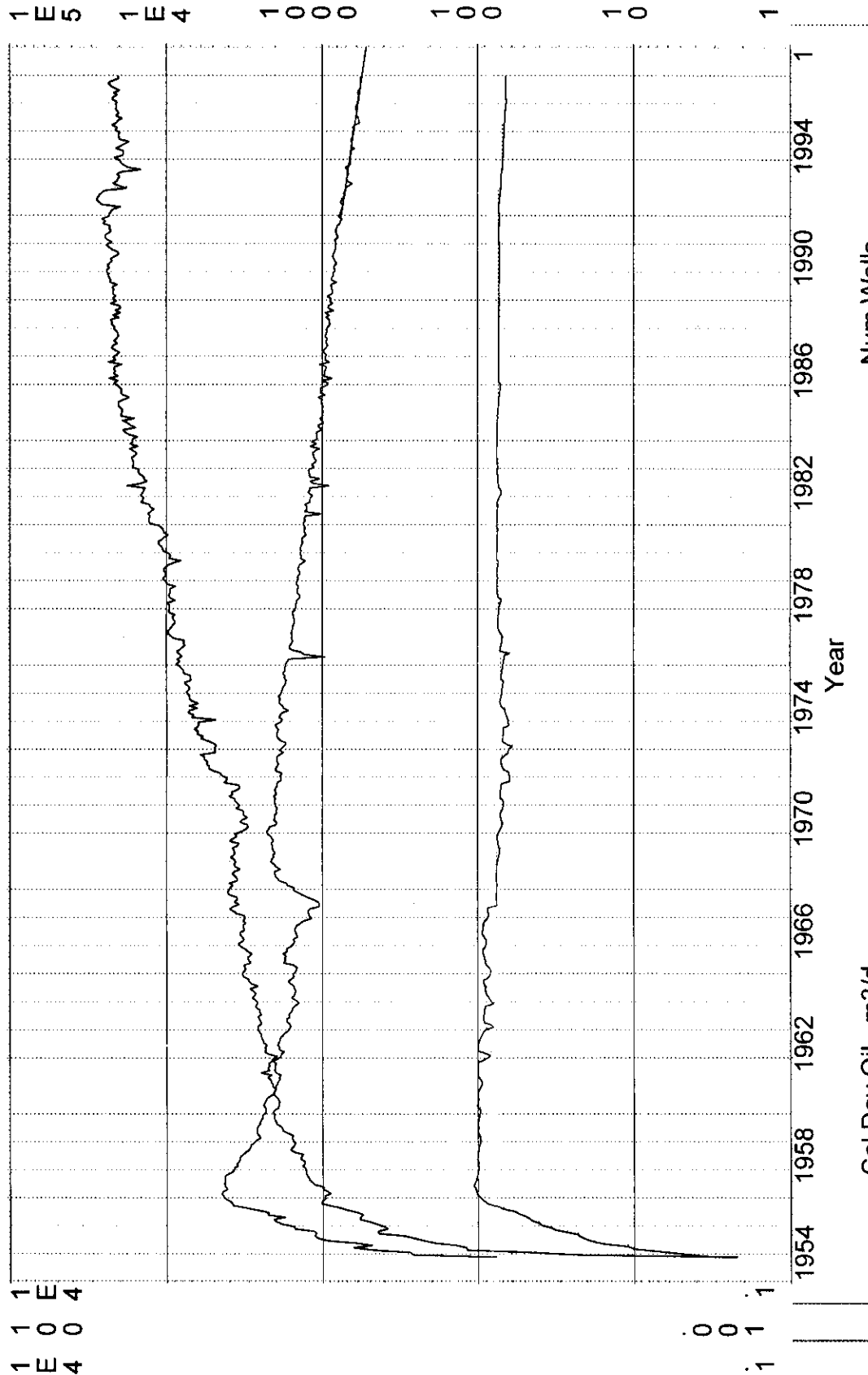
Year	Cal Day Oil m3/d	Historical Production m3/d
Jan., 1994	65.4613	66.4763
Feb., 1994	66.0036	66.1156
Mar., 1994	64.4936	65.7569
Apr., 1994	66.1	65.4001
May., 1994	61.4581	65.0453
Jun., 1994	65.2467	64.6924
Jul., 1994	63.8484	64.3414
Aug., 1994	64.729	63.9923
Sep., 1994	65.3433	63.6451
Oct., 1994	63.3129	63.2997
Nov., 1994	63.23	62.9563
Dec., 1994	63.6645	62.6147
Jan., 1995	62.3194	62.275
Feb., 1995	63.325	61.9371
Mar., 1995	61.7226	61.601
Apr., 1995	57.0633	61.2668
May., 1995	58.229	60.9344
Jun., 1995	57.95	60.6037
Jul., 1995	59.5871	60.2749
Aug., 1995	59.7935	59.9479
Sep., 1995	59.4433	59.6226
Oct., 1995	60.4548	59.2991
Nov., 1995	60.6567	58.9774
Dec., 1995	59.2806	58.6574
Jan., 1996	59.1903	58.1797
Feb., 1996	57.8276	57.8641
Mar., 1996	58.5032	57.5501
Apr., 1996	58.05	57.2378
May., 1996	59.0806	56.9273
Jun., 1996	58.2667	56.6184
Jul., 1996	56.3968	56.3112
Aug., 1996	56.629	56.0057
Sep., 1996	56.7567	55.7018
Oct., 1996	55.971	55.3996
Nov., 1996	56.9	55.099
Dec., 1996	55.8903	54.8
Jan., 1997		54.652
Feb., 1997		54.3555
Mar., 1997		54.0606
Apr., 1997		53.7673
May., 1997		53.4755
Jun., 1997		53.1854

5 - below

Historical Production (Rate-Time)

qi: 75.6667 m3/d, Dec, 1991
 qf: 1.08586 m3/d, Oct, 2060
 di(Exp): 5.96859 CTD: 2.3337e+06 m3
 RR: 321763 m3 Tot: 2.65547e+06 m3

Production Cums
 Oil: 2.3337e+06 m3
 Gas: 0 E6m3
 Water: 1.71153e+07 m3
 Cond: 0 m3



Num Wells



Cal Day Oil - m3/d

WOR - m3/m3

Historical Production - m3/d

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : 8/28/97 11:29:02 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from January, 1994 to June, 1997

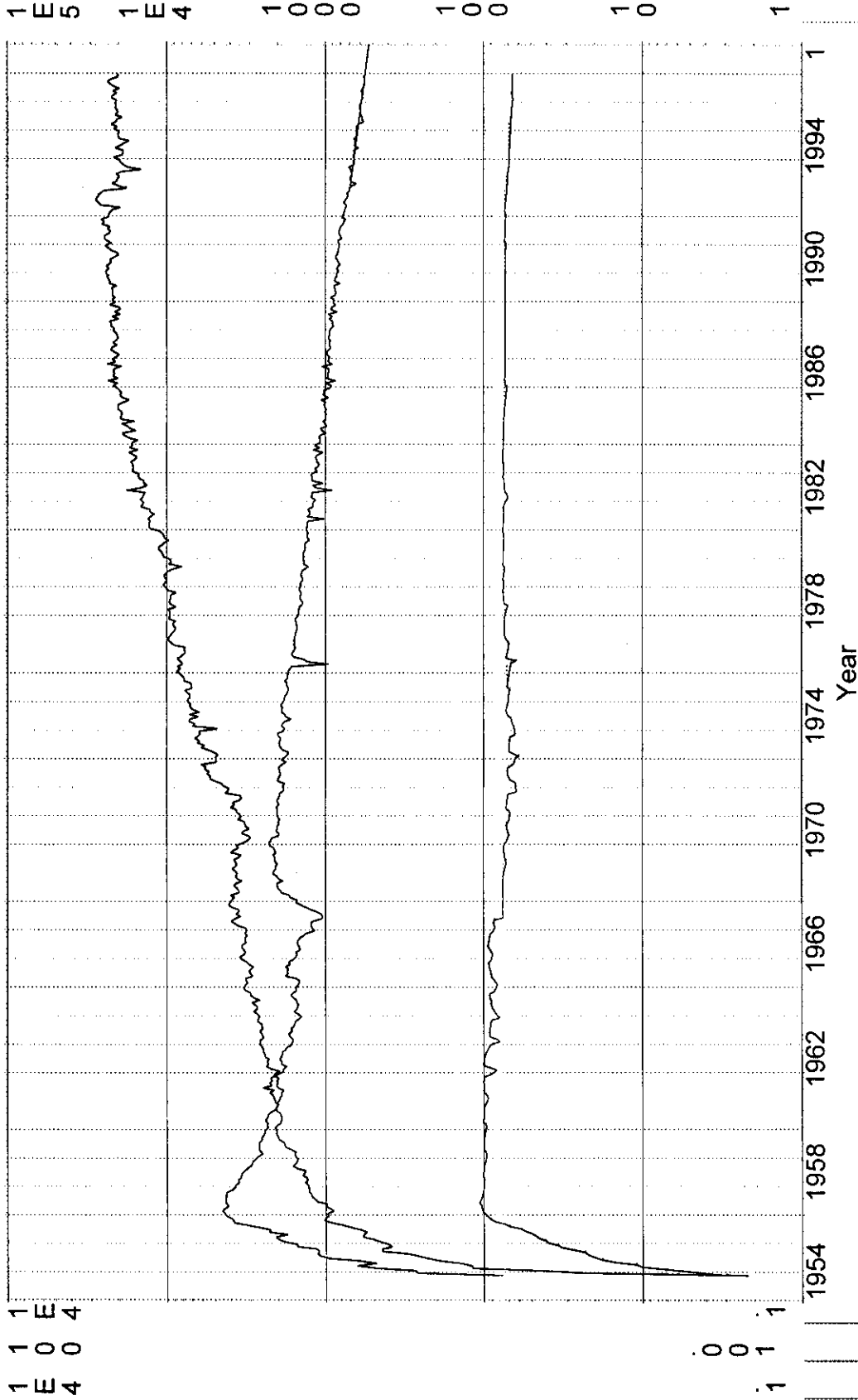
Year	Cal Day Oil m3/d	Historical Production m3/d
Jan., 1994	65.4613	66.2209
Feb., 1994	66.0036	65.8821
Mar., 1994	64.4936	65.5451
Apr., 1994	66.1	65.2098
May., 1994	61.4581	64.8763
Jun., 1994	65.2467	64.5444
Jul., 1994	63.8484	64.2142
Aug., 1994	64.729	63.8858
Sep., 1994	65.3433	63.559
Oct., 1994	63.3129	63.2338
Nov., 1994	63.23	62.9104
Dec., 1994	63.6645	62.5886
Jan., 1995	62.3194	62.2684
Feb., 1995	63.325	61.9499
Mar., 1995	61.7226	61.633
Apr., 1995	57.0633	61.3177
May., 1995	58.229	61.0041
Jun., 1995	57.95	60.692
Jul., 1995	59.5871	60.3816
Aug., 1995	59.7935	60.0727
Sep., 1995	59.4433	59.7654
Oct., 1995	60.4548	59.4597
Nov., 1995	60.6567	59.1555
Dec., 1995	59.2806	58.8529
Jan., 1996	59.1903	58.3919 *
Feb., 1996	57.8276	58.0932
Mar., 1996	58.5032	57.796 *
Apr., 1996	58.05	57.5004 *
May., 1996	59.0806	57.2063 *
Jun., 1996	58.2667	56.9136 *
Jul., 1996	56.3968	56.6225
Aug., 1996	56.629	56.3329 *
Sep., 1996	56.7567	56.0447 *
Oct., 1996	55.971	55.758 *
Nov., 1996	56.9	55.4728 *
Dec., 1996	55.8903	55.189 *
Jan., 1997		55.0571
Feb., 1997		54.7755
Mar., 1997		54.4953
Apr., 1997		54.2166
May., 1997		53.9392 -
Jun., 1997		53.6633

* - below

Historical Production (Rate-Time)

qi: 69.4928 m3/d, Jan, 1993
 qf: 1.65415 m3/d, Nov, 2061
 di(Exp): 5.27938 CTD: 2.3337e+06 m3
 RR: 365315 m3 Tot: 2.69902e+06 m3

Production Cums
 Oil: 2.3337e+06 m3
 Gas: 0 E6m3
 Water: 1.71153e+07 m3
 Cond: 0 m3



Num Wells



Cal Day Oil - m3/d

WOR - m3/m3

Historical Production - m3/d

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : 8/28/97 11:34:53 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from January, 1994 to June, 1997

Year	Cal Day Oil m3/d	Historical Production m3/d
Jan., 1994	65.4613	65.5272
Feb., 1994	66.0036	65.2317
Mar., 1994	64.4936	64.9375
Apr., 1994	66.1	64.6447
May., 1994	61.4581	64.3531
Jun., 1994	65.2467	64.0629
Jul., 1994	63.8484	63.774
Aug., 1994	64.729	63.4864
Sep., 1994	65.3433	63.2001
Oct., 1994	63.3129	62.9151
Nov., 1994	63.23	62.6314
Dec., 1994	63.6645	62.3489
Jan., 1995	62.3194	62.0678
Feb., 1995	63.325	61.7879
Mar., 1995	61.7226	61.5092
Apr., 1995	57.0633	61.2318
May., 1995	58.229	60.9557
Jun., 1995	57.95	60.6808
Jul., 1995	59.5871	60.4072
Aug., 1995	59.7935	60.1347
Sep., 1995	59.4433	59.8635
Oct., 1995	60.4548	59.5936
Nov., 1995	60.6567	59.3248
Dec., 1995	59.2806	59.0573
Jan., 1996	59.1903	58.6303 x
Feb., 1996	57.8276	58.3659
Mar., 1996	58.5032	58.1027 x
Apr., 1996	58.05	57.8407 x
May., 1996	59.0806	57.5798 x
Jun., 1996	58.2667	57.3202 x
Jul., 1996	56.3968	57.0617
Aug., 1996	56.629	56.8044
Sep., 1996	56.7567	56.5482 *
Oct., 1996	55.971	56.2932
Nov., 1996	56.9	56.0393 *
Dec., 1996	55.8903	55.7866 *
Jan., 1997		55.6872
Feb., 1997		55.436
Mar., 1997		55.186
Apr., 1997		54.9372
May., 1997		54.6894 -
Jun., 1997		54.4428

x- below.

Historical Production (Rate-Time)

qi: 65.9128 m3/d, Jan, 1994

qf: 1.46429 m3/d, Nov, 2062

di(Exp): 5.37421 CTD: 2.3337e+06 m3

RR: 359334 m3 Tot: 2.69304e+06 m3

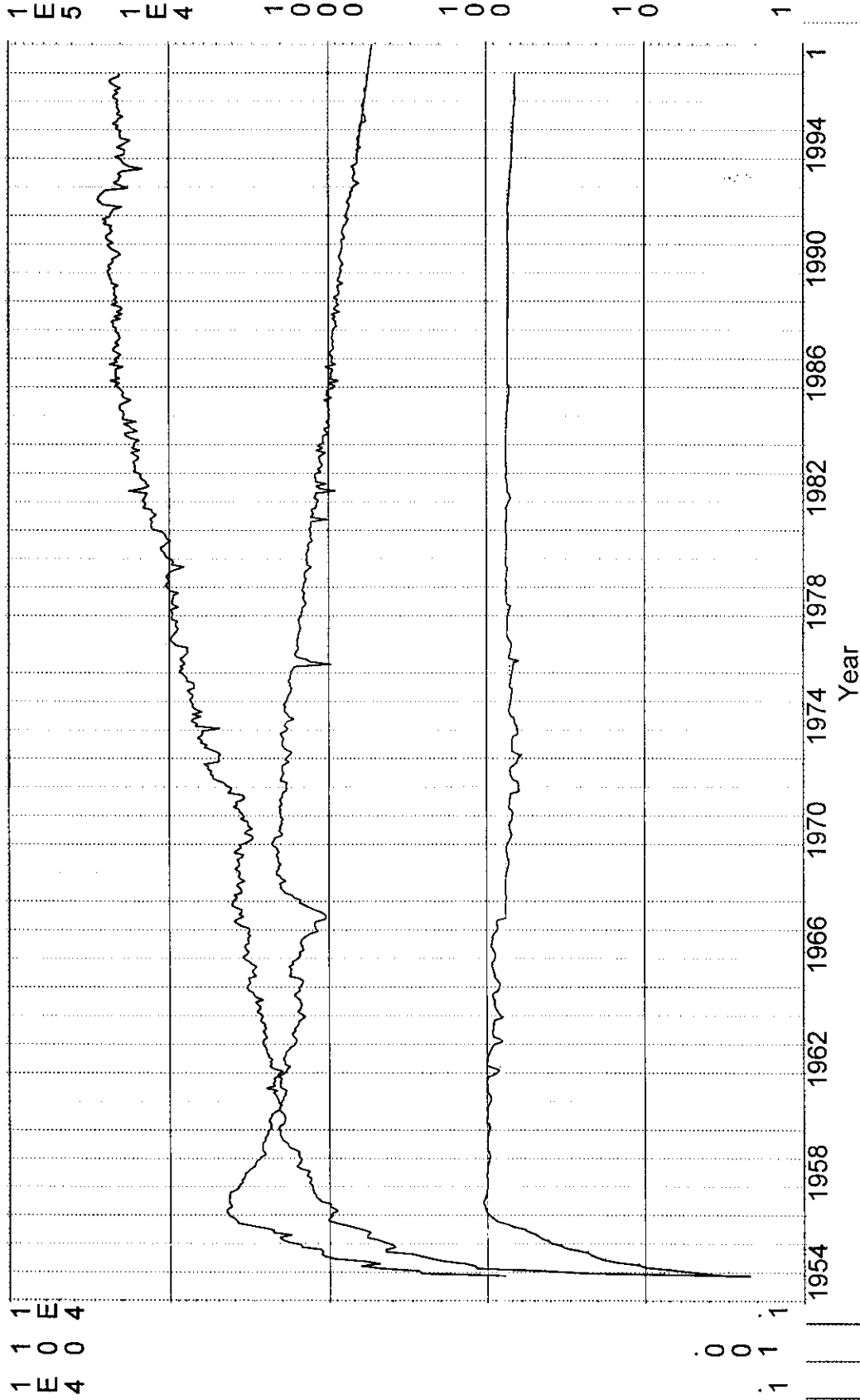
Production Cums

Oil: 2.3337e+06 m3

Gas: 0 E6m3

Water: 1.71153e+07 m3

Cond: 0 m3



Num Wells



Cal Day Oil - m3/d

WOR - m3/m3

Historical Production - m3/d

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : 8/28/97 11:41:43 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from January, 1994 to June, 1997

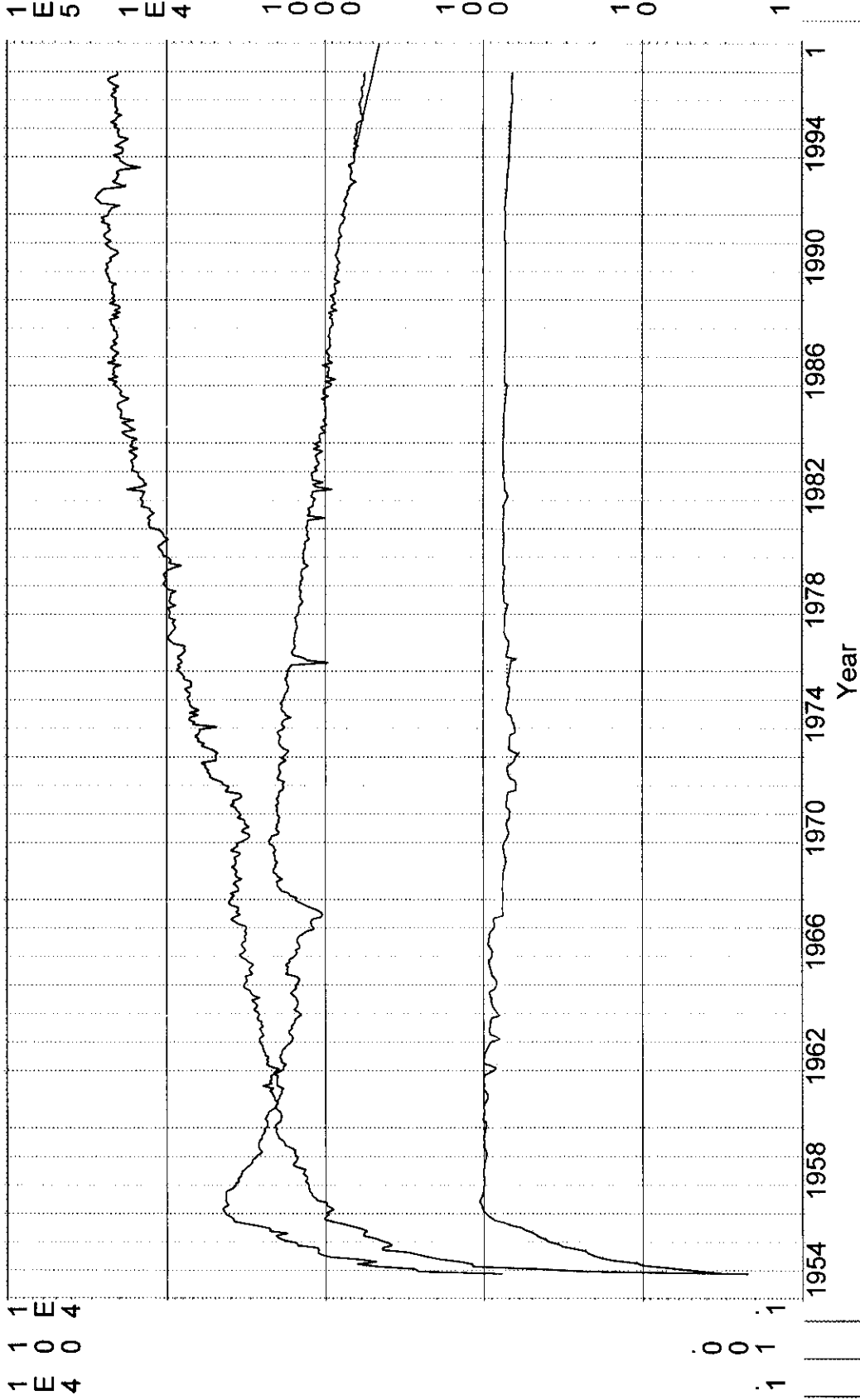
Year	Cal Day Oil m3/d	Historical Production m3/d
Jan., 1994	65.4613	65.6101
Feb., 1994	66.0036	65.3088
Mar., 1994	64.4936	65.0088
Apr., 1994	66.1	64.7103
May., 1994	61.4581	64.4131
Jun., 1994	65.2467	64.1172
Jul., 1994	63.8484	63.8228
Aug., 1994	64.729	63.5296
Sep., 1994	65.3433	63.2379
Oct., 1994	63.3129	62.9474
Nov., 1994	63.23	62.6583
Dec., 1994	63.6645	62.3706
Jan., 1995	62.3194	62.0841
Feb., 1995	63.325	61.799
Mar., 1995	61.7226	61.5151
Apr., 1995	57.0633	61.2326
May., 1995	58.229	60.9514
Jun., 1995	57.95	60.6714
Jul., 1995	59.5871	60.3928
Aug., 1995	59.7935	60.1154
Sep., 1995	59.4433	59.8393
Oct., 1995	60.4548	59.5645
Nov., 1995	60.6567	59.2909
Dec., 1995	59.2806	59.0186
Jan., 1996	59.1903	58.5871 x
Feb., 1996	57.8276	58.318
Mar., 1996	58.5032	58.0501 x
Apr., 1996	58.05	57.7835 x
May., 1996	59.0806	57.5181 x
Jun., 1996	58.2667	57.254 x
Jul., 1996	56.3968	56.991
Aug., 1996	56.629	56.7293
Sep., 1996	56.7567	56.4687 x
Oct., 1996	55.971	56.2094
Nov., 1996	56.9	55.9512 x
Dec., 1996	55.8903	55.6943 x
Jan., 1997		55.5904
Feb., 1997		55.335
Mar., 1997		55.0809
Apr., 1997		54.8279
May., 1997		54.5761 -
Jun., 1997		54.3255

exhib.

Historical Production (Rate-Time)

qi: 65.9128 m3/d, Jan, 1994
 qf: 0.11561 m3/d, Nov, 2062
 di(Exp): 8.79681 CTD: 2.3337e+06 m3
 RR: 197752 m3 Tot: 2.53146e+06 m3

Production Cums
 Oil: 2.3337e+06 m3
 Gas: 0 E6m3
 Water: 1.71153e+07 m3
 Cond: 0 m3



Num Wells



Cal Day Oil - m3/d

WOR - m3/m3

Historical Production - m3/d

Production Report

Group : VRU No. 3
Well : VRU No. 3
 : 000000211
Hist.Data : 11/54-12/96
Operator :
Field :

Date : 8/28/97 11:48:31 am
User : Ludwig
On Prod : 02/09
Status : Unknown
Zone :

Production Data from January, 1994 to June, 1997

Year	Cal Day Oil m3/d	Historical Production m3/d
Jan., 1994	65.4613	65.409
Feb., 1994	66.0036	64.909
Mar., 1994	64.4936	64.4129
Apr., 1994	66.1	63.9205
May., 1994	61.4581	63.4319
Jun., 1994	65.2467	62.947
Jul., 1994	63.8484	62.4658
Aug., 1994	64.729	61.9883
Sep., 1994	65.3433	61.5145
Oct., 1994	63.3129	61.0443
Nov., 1994	63.23	60.5777
Dec., 1994	63.6645	60.1146
Jan., 1995	62.3194	59.6551
Feb., 1995	63.325	59.1991
Mar., 1995	61.7226	58.7466
Apr., 1995	57.0633	58.2975
May., 1995	58.229	57.8519
Jun., 1995	57.95	57.4097
Jul., 1995	59.5871	56.9708
Aug., 1995	59.7935	56.5353
Sep., 1995	59.4433	56.1032
Oct., 1995	60.4548	55.6743
Nov., 1995	60.6567	55.2488
Dec., 1995	59.2806	54.8264
Jan., 1996	59.1903	54.2587
Feb., 1996	57.8276	53.8439
Mar., 1996	58.5032	53.4324
Apr., 1996	58.05	53.0239
May., 1996	59.0806	52.6186
Jun., 1996	58.2667	52.2164
Jul., 1996	56.3968	51.8173
Aug., 1996	56.629	51.4212
Sep., 1996	56.7567	51.0281
Oct., 1996	55.971	50.638
Nov., 1996	56.9	50.251
Dec., 1996	55.8903	49.8668
Jan., 1997		49.6212
Feb., 1997		49.2419
Mar., 1997		48.8655
Apr., 1997		48.492
May., 1997		48.1213
Jun., 1997		47.7535

July 10, 1997

To: John & Carol

From: Bob

Re: Chevron New Oil Application

I received the attached application for new oil status on incremental production in Virden Roselea Units 1, 2 and 3.

Carol, just a heads up that this is on the way, will likely be approved and will require an NVS type spreadsheet.

Some other comments

1. In that none of the enhancements are planned before July 1997, I have trouble agreeing to a retroactive (to June 1) effective date.
2. In VR#1, Chevron uses 1992 to 1996 to establish a decline. However, in this period, there were some infill wells drilled (weren't there) that may have affected the decline. Also, in 1992, Chevron reduced the VRR and observed deterioration of performance. This appears to have been misguided from a reservoir management perspective. I am wondering if a longer decline period, say from 1982 to 1996 might not be more representative of a case where production operations are reasonably maintained.
3. VR#2 uses a longer decline period, from 1979 to 1996 and appears to be quite well defined
4. VR#3 uses a very short decline period based on a period where VRR's were reduced and waterflood performance deteriorated. Again, would a longer decline be more indicative of the reservoir's true capabilities.
5. Please review and provide recommendations on justified decline rates

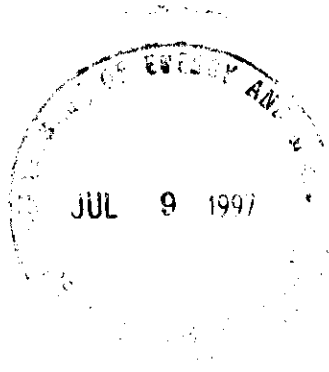


VRU #2 - new oil wells (2)



June 26, 1997

Manitoba Energy and Mines
1395 Ellice Avenue, Suite 360
Winnipeg, Manitoba
R3G 3P2



Chevron Canada Resources
Box 100
Virden, MB R0M 1P0

W. J. (Joe) Taylor
Petroleum Engineer
Phone No. 204-748-6345
Fax No. 204-748-6762

**RE: Virden Roselea Unit #1, Virden Roselea Unit #2, Virden Roselea Unit #3
Waterflood Modification Application for New Oil Status
for Royalty and Mineral Tax Calculations**

Dear Mr. Dubreuil:


The following is submitted as follow up to our meeting of April 15, 1997 in Regina, Saskatchewan. Chevron Canada Resources, as operator of the above three units, hereby formally applies for new oil status for the calculation of Crown royalty and incremental freehold mineral tax on the production above the projected present decline rate as shown in the described attachments.

As discussed, Chevron is attempting to maximize recovery from the subject waterfloods. However, due to limited funds currently being allocated to our Manitoba assets, we require strong economic justification to proceed. We anticipate that both Chevron and the Manitoba Government will benefit with incremental cash flow from these proposed plans. The following text describes each unit base case decline assumptions, approximate plans, timing and expected results. We would like to stress that we consider the 1997 development items in each field a pilot project, with further development opportunities being dependent upon each pilot's success.

As discussed in our April 15, 1997 meeting, Chevron would like to have an effective date retroactive to before these modifications are to be conducted in each unit. Chevron is aware that some items such as horizontal drilling, qualify for other incentives and will be treated separately.

If you have any questions or concerns regarding this submission, please contact Brian Grant at (403) 234-5812 or myself at (204) 748-6345. Chevron appreciates your consideration in these matters.

Sincerely,


W.J. (Joe) Taylor
Petroleum Engineer

LIST OF ATTACHMENTS

Figure #1	Base case production forecast Virden Roselea #1
Table #1	Development plans and timing for Virden Roselea #1
Figure #2	Base case production forecast Virden Roselea #2
Table #2	Development plans and timing for Virden Roselea #2
Figure #3	Base case production forecast Virden Roselea #3
Table #3	Development plans and timing for Virden Roselea #3

Viriden Roselea Unit #1

Since December, 1992 the oil production decline has been exhibiting an exponential decline of approximately 6.6% p.a. as determined by type curve analysis. The case represented in Figure 1 is what Chevron believes to be a "do nothing case", best representing a base decline for the unit. It should be noted that all infill locations (i.e. "new oil") have been removed from the decline analysis.

In attempt to better manage the waterflood performance, Chevron proceeded with a pattern balance scheme in 1992. Several high water cut wells were suspended and / or abandoned due to economic reasons. By reducing the amount of makeup water to the unit and re-allocating water in effort to pattern balance voidage, the voidage replacement ratios fell below 1.0 resulting in the increased decline observed in Figure 1. Continuing onward with this strategy will impede waterflood performance and reserves recovery as demonstrated by the decline.

With the aid of a Stream Tube Dykstra Parsons (STDP) reservoir model, Chevron has identified several opportunities that could improve waterflood performance and recovery factors for the unit. Table 1 details the planned activities and timeline for Viriden Roselea Unit #1. As discussed in our April 15th meeting, Chevron proposes that the effective date will be June 1, 1997 for calculation purposes and follow the same calculation process as outlined in the NVSU #1 / Daly #3 base decline application. Since some described items will qualify for royalty holiday treatment only such as horizontal producers or horizontal injectors, these items are recommended to be treated separately as outlined in the Manitoba Petroleum Incentive Programs brochure (Nov. /96).

Viriden Roselea Unit #2

Since January, 1979 the oil production decline has been exhibiting an exponential decline of approximately 5.9% p.a. as determined by type curve analysis. The case represented in Figure 2 is what Chevron believes to be a "do nothing case", best representing a base decline for the unit. It should be noted that all infill locations (i.e. "new oil") has been removed from the decline analysis.

Table 2 details the proposed activities and timeline to increase waterflood performance in Viriden Roselea Unit #2. As discussed in our April 15th meeting, Chevron proposes that the effective date will be June 1, 1997 for calculation purposes and follow the same calculation process as outlined in the NVSU #1 / Daly #3 base decline application. Since some described items will qualify for royalty holiday treatment only such as horizontal producers or horizontal injectors, these items are recommended to be treated separately as outlined in the Manitoba Petroleum Incentive Programs brochure (Nov. /96).

Virden Roselea Unit #3

Since January, 1994 the oil production decline has been exhibiting an exponential decline of approximately 8.8% p.a. as determined by type curve analysis. The case represented in Figure 3 is what Chevron believes to be a "do nothing case", again best representing a base decline for the unit. It should be noted that all infill locations (i.e. "new oil") has been removed from the decline analysis..

In attempt to better manage the waterflood performance, Chevron proceeded with a pattern balance scheme in 1994. Several high water cut wells were suspended and / or abandoned due to economic reasons. By reducing the amount of makeup water to the unit and re-allocating water in effort to pattern balance voidage, the voidage replacement ratios fell below 1.0 resulting in the increased decline observed in Figure 1. Continuing onward with this strategy will impede waterflood performance and reserves recovery as demonstrated by the decline.

With the aid of a Stream Tube Dykstra Parsons (STDP) reservoir model, Chevron has identified several opportunities that could improve waterflood performance and recovery factors for the unit. Table 3 details the planned activities and timeline for Virden Roselea Unit #3. As discussed in our April 15th meeting, Chevron proposes that the effective date will be June 1, 1997 for calculation purposes and follow the same calculation process as outlined in the NVSU #1 / Daly #3 base decline application. Since some described items will qualify for royalty holiday treatment only such as horizontal producers or horizontal injectors, these items are recommended to be treated separately as outlined in the Manitoba Petroleum Incentive Programs brochure (Nov. /96).

VRU #1 (w/o New Oil Wells) Data 01/54-01/97

Operator: VRU #1 Base Decline (Rate-Time)
 Field: qi: 80.821 m3/d, Dec, 1992
 Zone: qf: 0.772393 m3/d, Jan, 2061
 Type: Oil di(Exp): 6.59848 CTD: 2.3691e+06 m3
 Group: Roselea #1 (w/o New Oil Wells) RR: 321929 m3 Tot: 2.69103e+06 m3

Production Cums
 Oil: 2.3691e+06 m3
 Gas: 14.5035 E6m3
 Water: 9.1391e+06 m3
 Cond: 0 m3

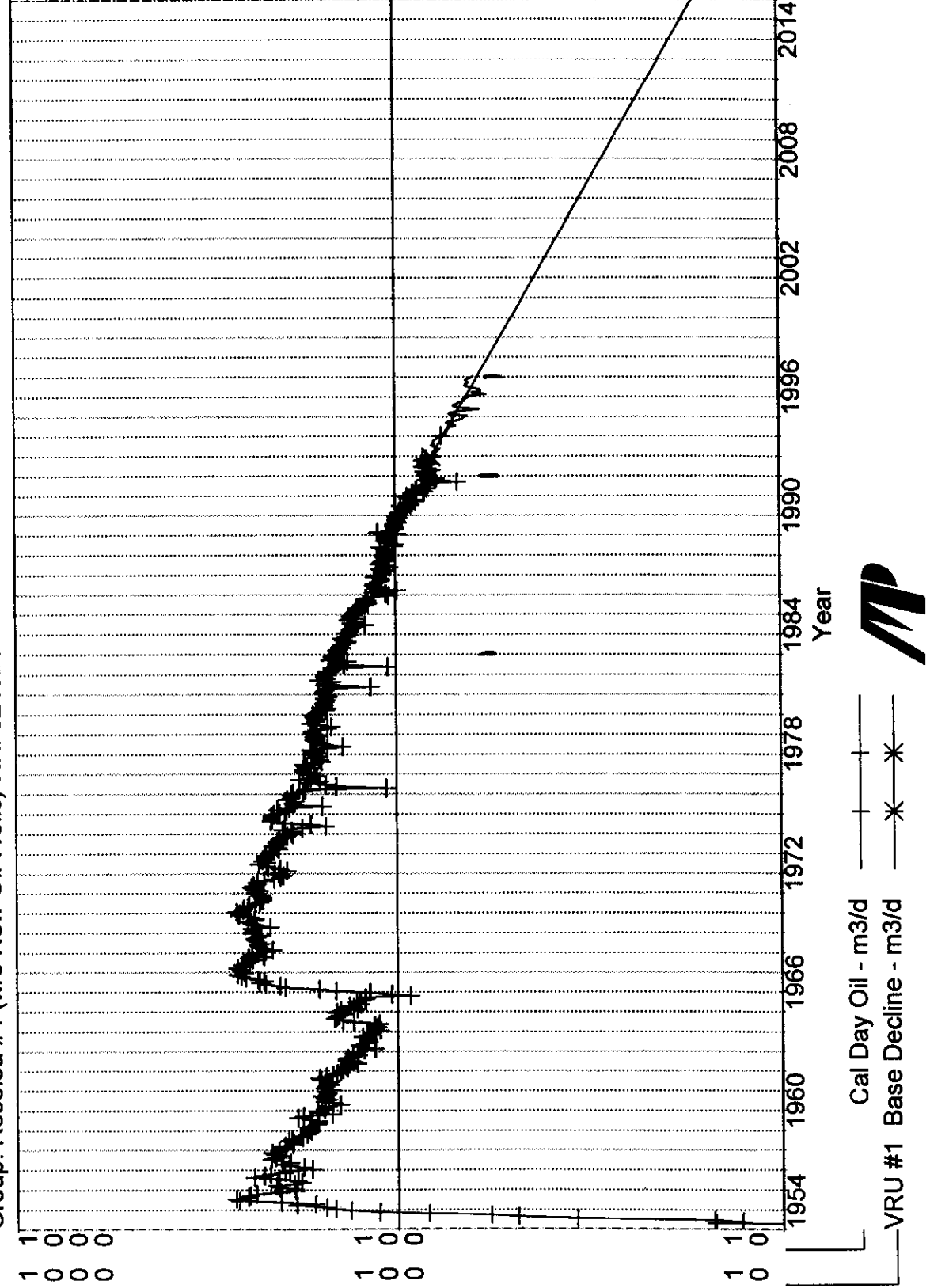


Figure 1: Exponential Base Decline for VRU #1

ITEM	APPROXIMATE TIMING
Polymer to injectors (locations TBA)	July/97
Strategic Stimulations and Rate Changes in Key Injector/Producers	July - August/97
Conversions to Injection (locations TBA)	August/97
Drill Horizontal Producers / Injectors: (locations TBA)	September/97
Injection Infrastructure Review to Optimize Water Allocation on a Field Basis	September/97

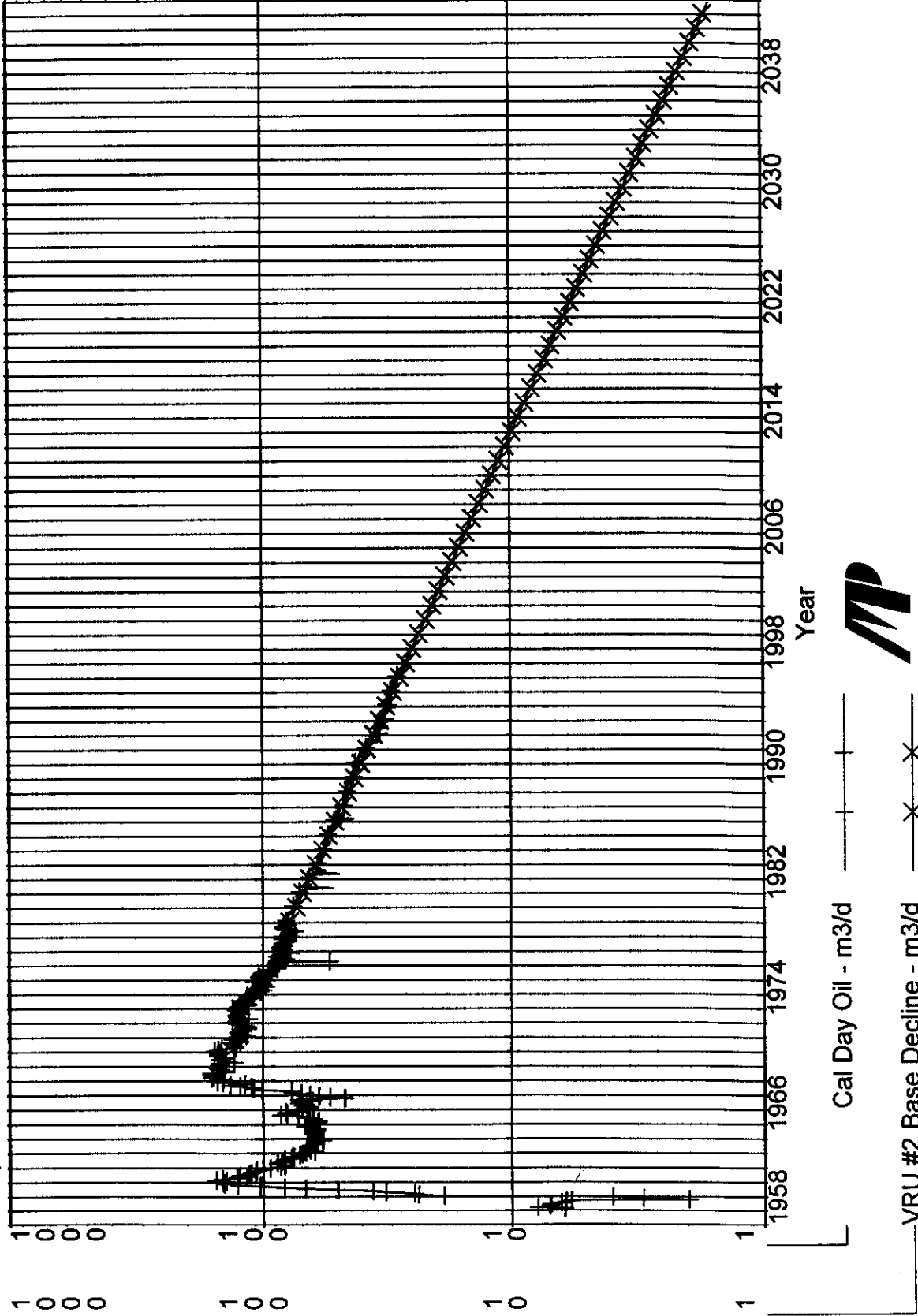
Table 1: WATERFLOOD MODIFICATIONS VIRDEN ROSELEA UNIT #1

Note: Desired start date of new oil calculation - June 1, 1997

Roselea 2 Data 01/58-01/97
 VRU #2 Base Decline (Rate-Time)
 qi: 78.4439 m3/d, Jan, 1979
 qf: 1.59305 m3/d, Oct, 2042
 di(Exp): 5.92195 CTD: 1.00266e+06 m3
 RR: 145992 m3 Tot: 1.14865e+06 m3

Operator:
 Field:
 Zone:
 Type: Unknown
 Group: Roselea 2

Production Cums
 Oil: 1.00265e+06 m3
 Gas: 6.6315 E6m3
 Water: 6.74684e+06 m3
 Cond: 0 m3



Cal Day Oil - m3/d
 VRU #2 Base Decline - m3/d
 Figure 2: Exponential Base Decline for VRU #2

ITEM	APPROXIMATE TIMING
Polymer to injectors (locations TBA)	July/97
Strategic Stimulations and Rate Changes in Key Injectors /Producers	July - August/97
Conversions to Injection (locations TBA)	August/97
Horizontal Producers / Injectors (locations TBA)	September/97
Injection Infrastructure Review to Optimize Water Allocation on a Field Basis	September/97

Table 2: WATERFLOOD MODIFICATIONS VIRDEN ROSELEA UNIT #2]

Note: Desired start date of new oil calculation - June 1, 1997

Roselea 3 Data 11/54-01/97

VRU #3 Base Decline (Rate-Time)

qi: 67.6042 m3/d, Jan, 1994

qf: 4.9765 m3/d, Apr, 2022

di(Exp): 8.79681 CTD: 2.34038e+06 m3

RR: 182016 m3 Tot: 2.5224e+06 m3

Production Cums

Oil: 2.34038e+06 m3

Gas: 11.5933 E6m3

Water: 1.71851e+07 m3

Cond: 0 m3

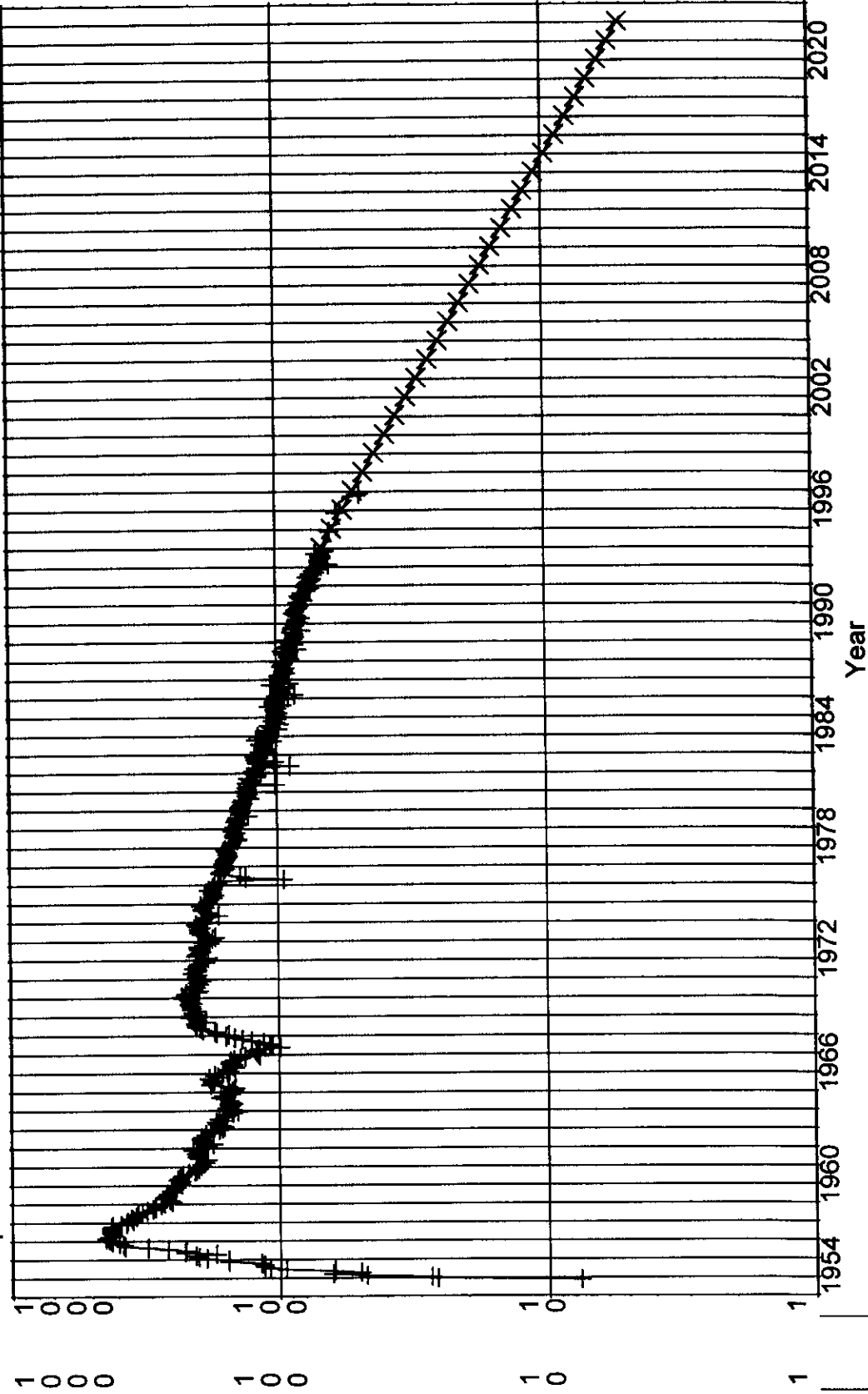
Operator:

Field:

Zone:

Type: Unknown

Group: Roselea 3



M

Figure 3: Exponential Base Decline for VRU #3

ITEM	APPROXIMATE TIMING
Polymer to injectors (locations TBA)	July/97
Strategic Stimulations and Rate Changes in Key Injectors /Producers	July - August/97
Conversions to Injection (locations TBA)	August 1/97
Horizontal Producers / Injectors (locations TBA)	September/97
Injection Infrastructure Review to Optimize Water Allocation on a Field Basis	September/97

Table 3: WATERFLOOD MODIFICATIONS VIRDEN ROSELEA UNIT #3

Note: Desired start date of new oil calculation - June 1st, 1997