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REPUBLIC OF KENYA

MINISTRY OF WATER DEVELOPMENT

THE STUDY ON THE NATIONAL WATER MASTER PLAN

DATA BOOK (DB.3)

GROUNDWATER DATA (Study Supporting Data)

JULY 1992

JAPAN INTERNATIONAL COOPERATION AGENCY

LIST OF REPORTS

EXECUTIVE SUMMARY

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2.	Vol.2	Master Action Plan towards 2000
		Part 1: National Water Master Action Plan
3	Vol 3	Master Action Plan towards 2000

Part 2: Action Plan by Province/District

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\mathbf{B}	Hydrology
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D	Domestic and Industrial Water Supply
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	BCDEFGHJKLMNPQR

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6.	DB.6	Project Sheet for Urban Water Supply

PREFACE

Administrative Division of Districts

In this Study, the original 41 districts were considered and various statistical data, particularly socio-economic information, were collected for these districts. During the progress of the Study, six districts were were detached from the original ones and established as new districts. In the report, the data on these new districts are grouped together with the corresponding original districts as shown below.

	Original Districts	New Districts	Data included in:
1.	Machakos	Makueni	Machakós/Makueni
2.	Kisii	Nyamira	Kisii/Nyamira
3.	Kakamega	Vihiga	Kakamega/Vihiga
4.	Meru	Tharaka-Nithi	Mera/Tharaka-Nithi
5.	Kericho	Bornet	Kericho/Bornet
6.	South Nyanza	Migori	South Nyanza/Migori

(Note: The last three Districts were established very recently.

The report refers only to the names of the original 41 districts.)

The administrative boundary map used in this Study is the latest complete map set covering the whole country (41 Districts, 233 Divisions and 976 Locations), prepared in 1986 by the Survey of Kenya, Ministry of Land and Housing.

Data and Information

The data and information contained in the report represent those collected in the 1990-1991 period from various documents and reports made available mostly from central government offices in Nairobi and/or those analyzed in this Study based on the collected data. Some of them may be different from those kept in files at some agencies and regional offices. Such discrepancies if any should be collated and adjusted as required in further detailed studies of the relevant development projects.

THE STUDY ON THE NATIONAL WATER MASTER PLAN

DATABOOK: DB.3 HYDROLOGICAL DATA (SUPPORTING DATA)

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PART 1: GROUNDWATER DATA

Table 1.1 (1/2) Aquifer characteristics by rock type

				Total	Water tev	101		Bridead	ing tost	·	Pumping	Recovery	Yransmis.	Storage
ÓZ	Longitude Latitude Elevation	Latitude	Elevation	450.00	Struck	TO SECT	Diamoter	Zea Eox	Yield D	Orawdown	Bours	B)nou	sivity	coefficient
	(400700)	(degree)	ε)	Ê E	Ē)	(æ)	(E 0)		(c/ E / t)	Ê	(hours)	(hours)	(m2/min)	
Rock type * 1 (T	(Total number of boreholes	or of bore	#	3882)										
Number of data	3416	3416	3279	3854	3529	3442	3539	2396	3448	1832	3287	823	426	403
Data percentage	88.00	88.00	84.47	99.28	90.91	88.67	91.16	61.72	88.82	47.19	84,67	21.20	10.97	10.38
Minimon	34.02	-3.92	6.00	3.00	1.00	0.00	3.00	1.00	00.	000	0,00	0,50	000	00.0
Maximum	40.60	4.00.00	3120.00	939.00	369.00	287.00	90.00	8.00	945.00	211.80	39.00	80.00	1.85	0,61
Average	36.46	-0.56	1762.74	124.70	93.96	48.68	16.84	1.52	124.19	37.05	16.97	6.31	0.02	0.03
standard deviation	0.75	.08	456.99	63,46	58.37	41.20	4.24	16.0	107.81	34.31	13.06	8.77	0.12	0.07
Rock type # 2	Total number	ser of bor	of boreholes #15											
, 81	1406	1406	4 4 38	1577	1202	1221	1353	860	1163	743	1095	287	106	40.3
Data percentage	88.32	88.32	89.07	99.06	75.50	76.70	84.99	54.02	73.05	46.67	68.78	18.03	6.66	6.47
Kinimom	34.02	-4.30	14.00	2.00	1.00	1.00	2.00	1.00	1.00	0.10	0.30	1.00	0.00	0.00
MaxImem	41.45	5.33	2385.00	341.00	244.00	190.00	51.00	78.00	760.00	171.00	00.66	58.00	0.98	0.72
Average	ന	-0.42	1266.59	79.59	55.30	26.40	15.54	1.46	75.62	31.08	15.74	7.60	0.02	0.03
standard deviation	1.66	1.68	441.41	42.88	37.50	25.94	4.17	2.73	86.55	29.46	14.72	11.58	0.10	0.08
Rock type = 3 / Total number of boreholes = 8	Total pum	ser of bor	eholes ≡8	~										
Number of data	666	667	586	876	786	777	290	611	709	630	80	23.9	F 60	127
Data percentage	75.85	75.97	66.74	77.66	89,52	88.50	89.98	69.59	80.75	48.97	77.56	27.22	14.92	14.46
Minimes	34.07	4.57	3.00	4.00	1.00	00.	00.9	00.	00.	0.20	00.1	00.1	00.0	00.0
Kaxinus	41.87	5.03	2640.00	310,00	258.00	247.00	53.00	4.00	947.00	312.00	99.00	59.00	0.45	0.57
Average	38.72	1.78	439.48	81.22	54.25	34.80	17.07	1.20	92.48	17.39	17.32	5.80	0.01	0,02
standard deviation	1.98	2.53	585.84	62.98	47.98	37.45	4.71	0.58	106,45	29.87	16.01	8,31	0.04	90.0
Rock type # 4	(Total number of boreholes = 15	er of bor	ehotes =1	62)										
	129	000	128	150	68.5	4 4 6	142	67	6.4.5	0 + 1	r r	¥	80	er e-
Data percentage	79.63	79.63	79.01	98.77	92.59	90.12	87.65	82,10	88.27	67.90	82.13	40.74	17.28	17.28
Minimum	34.10	-4.58	8.00	10.30	1.90	1.00	11.00	1.00	2.50	1.00	1.00	9,25	00.0	00.0
Maximum	39.70	5.03	2715.00	307.00	219.00	156.00	31.00	5.00	800.00	124.10	39.00	36.00	0.02	0.40
Average	36.79	-1.10	1079.47	82.53	54.39	28.53	16.42	1.26	123.14	25.87	16.00	4.57	0.00	0.05
standard deviation	1,86	2.20	631.99	60.17	43.24	30,44	5.05	0.61	160.30	24.88	15.74	5.82	0.0	0.03
Sock type = 5 (7	Total number of boreholes	er of bor	79= seloue	۷ >										
	5.2	5.2	4 3	5.4	80 80	5.2	φ (3	4 9	0 \$	46	24	000		C
Cata percentage	77.61	77.61	68.66	100.00	86.57	77.61	92.54	73.13	74.63	68.83	71.64	44.78	14.93	13, 43
Minimum	34.47	-3.73	168.00	23.00	6.00	1.00	11.00	1.00	1.00	00.0	1.00	1.00	0.00	00.0
EDEIXAM	40.10	3.30	1850.00	220.00	203.00	102.00	30.00	4.00	619.00	120.00	24.00	46.00	0.28	0.03
Average	36.87	4.0	1073.65	91.28	51,15	25.97	17.69	1.23	94.52	32.28	13.13	9,63	0.03	0.01
standard deviation	1.85	1.08	432.74	46.83	40.50	22.55	00.0	0.68	116.59	31.16	9.50	\$1.76	0.00	0.01

Table 1.1 (2/2) Aquifer characteristics by rock type

				Total	Water Is	10.4		DAMMAN	ro test		Pumping	Recovery	Transmis.	Storage
%		onglivan Latificat inogram) (degree)	Longitude Latitude Elevation Propress (degree) (E)	0.0th	Struck (m)		Rest Diameter	Number	Yield Orew	UMODME)	hours	Bours	WIVIE COL	coefficient
			-						,	·		(4,000)	(U.E./7E)	
Rock type = 6 (T	Total number of boreholes	er of bore	holes # 72											
NURDER OF CASE	4.0	50	മ		2.9	9	20	5.2	SQ.	vi V	4	о К	6	ç
Data percentage	71.64	73.61	86.67	100.00	93.06	87.50	97.22	72.22	77.78	62.50	75.00	5.6 17	, to	77 00
Minimum	34.13	.2.37	250.00	15.00	6,00	3.00	11.00	00.	11.00	0	00	00.1		
Maximum	40.02	4.58	2700.00	472.00	420.00	213.00	34.00	4.00	455.00	90.00	38.00	00.08	7.0	0 6
Average	n	0.62	1265.85	90.44	63.22	28.98	16.79	1,25	126.16	24,14	17.46	5.54	0.02	100
standard deviation	1.51	1.89	594.63	67.07	61.97	33,94	4.33	0.59	98.90	20.35	9.37	8,46	0.08	6,17
Rock type = 7 { Total number of boreholes =52	otal numb	ser of bor	2= 8e)0Ha	~										
Number of data	6.1	8	4 8	5.2	4	4	4	44	45	53	er er	9	9	8
Data percentage	91.04	96.15	92.31	100,00	88.46	80.77	88.46	84.62	86.54	67.33	86.54	46.15	36.54	34.62
Minime	1.51	-4.22	21.00	17.00	4.00	1,00	10.00	0.0	6.00	2.60	1.00	1.00	0.00	0.00
EDE X	71.64	2.48	2179.00	270.00	244.00	115.00	25.00	4.00	758.00	140.80	25.00	8,00	0.50	0,13
をいるいの人	n	.0.41	1332,83	106.71	79.37	26,60	15.22	1,36	179.40	41.22	13,13	3,38	0.03	0.05
standard deviation	6.77	1.06	498.58	58,38	\$7.11	27,93	3.67	0.72	167.97	30.37	8.51	2.37	0.11	0.03
Rock type = 8 (Total number of boreholes =20	dmun (ato	er of bor	eholes =2	~										
Number of date	57	ě	r r	20	ኔን ኮ	16	9 =	1.5	10	1 2	14		40	ĸ
Date percentage	85.07	80.00	65.00	100.00	75.00	80.00	80.00	75.00	75.00	60.00	70.00	55.00	25.00	25.00
Minimum	1.51	-3.70	167.00	22.00	16.00	9.00	13.00	4.00	5.00	1,00	1,00	2.00	0.00	0.00
Maximum	91.04	3.83	1996.00	261.00	225.00	107,00	20.00	2,00	225.00	76.00	24.00	24.00	0.03	0.17
Average	27.13	-0.19	1054.23	103,95	63.00	38.88	15.81	1.40	76,25	19.39	18.57	5.91	0.01	0.04
stenderd deviation	11,24	60.	586.58	64.47	55.16	30,41	2.14	0.51	58.93	20.41	8.62	6.28	0.01	0.07
Rock type = 9 (T	otal numb	er of bore	Total number of boreholes =781											
Nember of data	573	568	384	723	410	340	536	33	332	311	312	130	192	182
Data percentage	73.11	72.73	49.17	92.57	52.50	43.53	68.63	42.64	62,51	39.82	39.95	16.65	24.58	23,30
Minimom	34.00	-4.67	18.00	6.00	1.00	1.00	6.00	1.00	1.00	0.50	1.00	1.00	00.0	00.0
Maximum	40.65		2730.00	300.00	223.00	163.00	200.00	649.00	444.00	142.00	79.00	44.00	0.27	0.47
Average	35.07	0.39	1391.61	78.66	55.76	25,68	12.60	3.08	81.47	24.44	12.59	3.50	0.01	0.02
standard deviation	1.13	1.58	379.40	47.39	39.12	27.21	13.42	35,51	82.94	24.58	8.78	4.39	0.02	0.05

Table 1.2 (1/11) Aquiter characteristics by basin

Drainage		Total	Rock	Water leve	=		Pumping	test	Pumping	Transmis-	Storage
Basin	Flevation	depth	type	Struck	Rest	Diameter	Viola	Drawdown	hours	BIVITY	coefficient
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			Ê	ξ	(E 0)	(I/W)U)	Ê	(hour)	(m2/min)	
tA (Total our	Total cumber of boreboles	4	~								
, E	167	60		104	40	178	112	107	4	5	28
Data Ostroenten	87.0	100.0	89.6	54.2	56.8	92.7	100	55.7	68.9	18.1	4.6
Kin	0.054	20.0	0.4	2,0	-	0	0.	0.0	0,	1.12E-04	7.38E.04
	2060.0	145.0	o o	78.0	56.0	25.0	300,0	96.0	72.0	4.36E-02	5.91E-02
Average	1296.2	25.52	6	37.3	11.7	3.2	48.4	15.4	7.8	6.36E-03	1.67E-02
0. %	269.3	16.3	4,	15.1	10.1		56.5	14.3	10.4	1.06E-02	1.76E-02
18 (Total nu	Total number of boreholes	Oless 10	0		٠					-	
,	80	100	000	06	8 8	87	87	4 5	8	Φ.	O1
Data percentage	0.86	100.0	100.0	90.0	88.0	87.0	87.0	45.0	81.0	9,0	0
N. W.	506.0	0.6	0	ņ	0.0	10.0	0.5	7.0	1:0	1.97E-05	1.33E-04
×	2300.0	195.0	4.0	176.0	55.0	22.0	504.0	113.6	72.0	1,56E-02	1.03年-01
Average	1173.9	67.7	7.7	44.3	18.5	4.4	56.2	27.1	11.2	3.40E-03	2.53E-02
o v	642.0	39.9	9.0	30.1	13.0	2.4	84.1	25.9	11.2	5.15E-08	3.40E-02
Total plu	Total number of boreholes s	6 4 8 9 0	^								
, <u> </u>	88	0	89	0 8	46	7.2	4 9	9	74	ņ	ro
Data percentage	96.7	97.8	93.4	87.9	83,5	79.1	86.8	42.9	81.3	, ,	ب د
Kin	549.0	12.0	0,1	5.0	0.	0.01	5.0	0.3	0:	1.74E-05	1.555-04
Max	2591.0	250.0	0	235.0	101.0	20.0	227.0	175.6	72.0	4.88E-03	2.11E-02
Average	1333.0	72.6	1.4	48.8	14.4	15.3	55.0	45.6	9.6	1.68E-03	7.39E-03
S. C.	820.7	47.9		39.9	16.5	1.4	57.9	41.9	10.2	2.77E-03	1,19臣-02
•	, , , , , , , , , , , , , , , , , , ,	•	,								
_	Total number of porenoies a	0/es # 12		•	;	•	,	1	,	•	•
Count	105	127	• •	0	- i	120		25	φ,	C 4	O A
Data percentage	82.7	100.0	87.4	79.5	7 7	94.5	D 1	6 4 9	51.5	0.0	/161
c X	430.0	23.0	0.	o 0	<u>.</u>	8.0	o v		n ;	3.65E-05	2.86E.04
Max	2090.0	150.0	o တ	102.0	34,0	25.0	227.0	4 4	65.0	5.8¢E-02	1.366-01
Average	1362.9	50.6	(4 (5	33.7	9.4		63.0	22.2	e Po	9.202-03	2.07E-02
ci ci ci	271.5	19.8	1,6	16.9	ហ	4.4	57.8	21.3	12.4	1.848-02	3.12E-02
		10 to	•							-	
_		5		220	201	(c)	204	196	201	34 VO	400 3473
of the second	7 0 4		74.0	6 2 2	57.3	7.68	(a)	55.8	57.3	, 80 (1)	** ***
Data percentage	7.00	· · ·	n c	4.0	;			, •	,	1 C C	
Nin	1158.0		O 1	O (- (? .	2 6) c	2 6	000000000000000000000000000000000000000	4.00 to 0.00 t
Max	1690.0	200.0	0.0	120.0	29.0	25.0	279.0	120.2	35.0	7.125-02	2.23E-01
Average	1361.1	52.1	بى ق	35.3	13.7	14.8	66.2		5.8	8 49 11-03	2.65E-02
က် တိ	129.9	18.9	2.4	15.4	တ် သ	4.0	0.10	15.5	6.0	1.315-02	4.43E-02

Table 1.2 (2/11) Aquifer characteristics by basin

Drainage		Total	Rock	Water leve			Penting	test	Pumping	Transmis-	Storage
Besin	Elevation	depth radeb	type	Struck	F. a.	Diameter	Viet Y	Drawdown	hours	41414	coefficient
	(E)	٠		(E)	Ê	(wa)	(c/w/s)	E)	(hour)	(m2/min)	
Total num	Total number of boreholes a	e 8 9 1	~								
Count	80	o r	17	12	4	4	10 #**		6	64	~
Osta percentage	94.7	100.0	89.5	63.2	73.7	73.7	78.9	57.9	84,2	10.5	10,5
C St	695.0	37.0	0	0.6	2.0	10.0	2.0	6.0	0.5	4.39E-04	2.17E-03
Max	2591.0	259.0	4.0	259.0	83.0	29.0	300.0	211.8	28.0	1.41E-02	5.585-02
Average	1874.2	122.7	3.6	95.6	23.9	18.1	70.3	74.9	14.8	7.28E-03	2.906-02
á	591.4	70.2	10	89.6	24.3	5,5	76.8	70.6	9.2	9.67E-03	3.795-02
1G (Total nur	Total number of boreholes	125 = 125	^								
Count	125	128	114	111	105	601	106	49	86	26	25
Data percentage	96.9	99.2	88.4	86.0	81.4	84.5	82.2	61,2	76.0	20.2	19.4
Kin	15.0	30.0	1.0	5.0	5.0	12.0	÷.	9.0	1.0	2.44E-05	1.43E-04
Mex	2682.0	327.0	0.6	251.0	167.0	34.0	760.0	160.3	65,0	1,05E-01	1.125-01
Average	1620.5	111.0	2.7	84.9	32.3	17.0	132.1	47.9	14.8	8.77E-03	1,176-02
ď vi	507.1	56.2	3.0	53.1	33.1	3.4	133.2	38.1	12.1	2.44E-02	2.24E-02
Tetal num	Total number of boreholes	loies = 210	_								•
Count	192	~	160	155	151	161	155	136	150	56	S)
Data percentage	91.4	96.7	76.2	73.8	71.9	76.7	73.8	64.8	72.9	26.7	26.2
CIX	354.0	6.0	٥.۲	0.1	0	10.0	4.8	r. .	0.5	2.64E-05	2.365-04
Mox	1738.0	279.0	0.0	201.0	100.0	38.0	682.0	143.0	81.0	1.966.01	4.665-01
Average	1284.6	77.9	4.3	53.0	20.2	17.5	130.3	29.7	13.0	w	~
o o	171.5	38.5	65.53	34.4	16.1	ğ.	146.1	27.0	14.9	2.67E-02	6.67E-02
10 (Total num	Total number of boreholes =	0 es = 94	^								
Count	es	34	т го	2.4	27	29	25		23	ຕ	~
Data percentage	35.1	36.2	36.2	25.5	28.7	30.9	26.6	7.4	24.5	3.5	4,4
Min	1128.0	46.0	0.	21,0	4.0	15.0	8,0	1.0	0.	1.26E-04	9.84E-04
Mex	2800.0	244.0	0.0	223.0	163.0	20.0	500.0	45.7	86.0	2.20E-01	2.62E-02
Average	2039.9	152.9	2.4	115.7	71.8	15.9	141.2	19.6	20.8	7.60E-02	1.36E-02
S.O.	513.3	51.2	2,9	56.3	53.9	<i>σ</i> ι ⊭:	162,3	18.8	17.9	1.245-01	1,78E-02
1	# 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	-								
- 1		•		e u		4	K			*	*
Tuno,	י כל ה		> (•) i	5	,) i	3 .	- 6	> č
Data percentage	85.5		87.0	54.1	85.5	87.0	92.8	0.00	D)	23.2	23.2
W.O	1158.0		0.5	7.0	<u>.</u>	17.0	ė.	2.0	•	6.41E-05	5.04E-04
Max	1980.0	204.0	0.0	174.0	74.0	40.0	252.0	137.8	36.0	4,39E-03	2.17E-02
Average	1468.7	81.6		54.9	17.8	16.6	71.2	35,8	10.7	1,116-03	5.29E.03
S.D.	208.0	36.3	3.5	33.3	16.7	4.0	68.5	29,4	8.5	1.465-03	6.595.03

Aquiter characteristics by basin (3/11) Table 1.2

Orainaga Basin											
orainage Saein											
)rajnage Saain											٠
*ein		Total	Rock	Water level	-		Peramod	1687	Pempino	Transmis.	Storage
	Elevation	Gepth	1400	Struck	Rest	Diameter	Y:010	Drawdown	hour	*1014	coefficient
	(w)			Ê)	Ê	(wo)	(1/m/in)	Ê	(hour)	(m2/min)	
1L (Total n	Total number of boreholes =	es = 26	~							-	
Count	2.5	Ŋ	2.4	21	8	23	21	Φ	. 8	84	
Data percentage	96.2	96.2	92.3	80.8	80.8	88.5	80.8	34.6	69.2	7.7	7.7
CIN	1500.0	52.0		9.0	4.0	15.0	9.0	4.0	3.0	4,88E-04	3.51E-03
Kex	2819.0	289.0	o,	280.0	233.0	34.0	212.0	114.0	38.0	9.77年-03	3.74E-02
Average	2289.8	153.2	÷.	126.9	70.5	16.3	95.0	38.9	14.8	5.132-03	2.04E.02
O V	390.7	67.0	۲.	67.4	61.4	4.1	58.9	33.8	10.0	6.57E-03	2,40E-02
2A (Total	Total number of boreholes	0.68 # 50									
. ₂	es es	0	. 0	50	35	57	10	2.1	2.2	6	n
Data percentage	46.0	0.36	80.0	58.0	\$0.0	56.0	52.0	42.0	44.0	26.0	26.0
Min	360.0	0.8	1.0	6.0	9.0	11.0	0.n	2.0	3.0	1.316-05	9,706-05
Max	1000.0	145.0	4.0	118.0	56.0	27.0	200.0	42.0	25.0	5,556-03	3.656-02
Average	628.6	58.8	7.8	6.60	16.4	16.8	49.8	14.0	21.7	1.15E-03	6.90E-03
	181.9	29.1	-:	25.5	13.8	6.3	48.7	11.1	5.8	1.465-03	9.566-03
2R / Total n	/ Total number of boreholes.	lea = 177	~		•						
	63	174	130	139	118	144	9	7.8	4.6	\$ 50	6 23
Data percentage	0.84	6.80	73.4	78.5	66.7	81.4	45.2	44.1	44.6	36,7	35.0
Kin	300.0	2.0	1.0	3.0	9,0	ў. О. 8	0.	0.0	4.0	6,625-05	2.005-04
Max	2280.0	201.0	0.0	206.0	59.0	35.0	289.0	182.0	30.0	4.885-01	5.48 E-01
Average	1122.5	4.4	2.2	35.0	14.5	15.7	62.7	15.6	18.2	1.54E-02	2.15E.02
5, 0,	470.8	27.7	1.6	24.7	1.1	6,3	20.3	23.6	e. 9	6.56E-02	7.00E.02
2C (Total n	Total number of boreholes =	tes = 50	~								
	32	9	4 5	4	4	4	G	4	2.8	1.8	91
Data percentage	64.0	100.0	86.0	84.0	80.0	82.0	66.0	48.0	56.0	36.0	32.0
N. O. M.	0.06	12.0	1.0	3.0	٠. د.	11.0	0.0	0.1	2.0	3.435.04	1.956-03
×	2480.0	195.0	7.0	132.0	65.0	80.0	286.0	48.0	54.0	3.535.01	8.09E-02
Average	840.1	65.6	2.6	38.2	21.7	20.0	79.4	13.7	21.1	3,625-02	2.17E-02
io is	561.9	46.1	e.	31.0	23.2	10.4	72.6	8° .	10.9	9.08€.02	2.10E-02
n (stoT) Oc	Total number of boreholes =	168 = 25	^								
. 20	23	44	52	24	2.4	77 C3	2 3	9	2.1	•	ው
Data percentade	92.0	0.96	100.0	96.0	96.0		92.0	64.0	84.0	36.0	36.0
N. C. C. M.	570.0	20.0	0	0.4.0	0.0	40.0	11,0	٠.	5.0	S.16E-05	3.716-04
Kax	1981.0	183.0	0.0	174.0	110.0	20.0	500.0	129.2	0.66	1.37E-03	6.87E-03
4000	1218.4	106.6	5.0	72.7	40.4	16.0	96.7	36.7	27.4	6,95E-04	3.316-03
	450.8	48.1	-	43.0	30.9	2.5	104.7	1.68	19,8	4.39E-04	2.17E-03

Table 1.2 (4/11) Aquifer characteristics by basin

Orainage		1010	No.	Water Jeve	=		Pumping	test	Persona	Transmis.	Storage
Gealn	Elevation	depth	type	Struck	Rest	Diemeter	Vield.	Drawdown	hoers	81411	coefficient
	Ê)			€)	€	(w o)	(1/wfu)	Ê	(hour)	(m2/min)	
2E (Total num	Total number of boreholes	les = 27	,								
Sp. t	258	270	267	239	230	232	238	000	235		1.
Data percentage	95.2	9.66	38.5	88.2	84.9	85,6	87.8	36.9	86.7	4.1	4
riz.	266.0	19.0	0,0	က်	5.0	10.0	1.0	0.5	0.5	2.78E-04	1.405-03
XaX	3120.0	412.0	9.0	251.0	220.0	25.0	455.0	197.0	99.0	4.88E-02	3.306-01
Average	2027.7	141.1	1,2	112.8	65.6	16.3	127.2	33.6	17.0	8.015.03	5.905-02
o, o	352.6	9.99	0.8	53.7	50.6	7.6	85.0	31.5	13.5	1.516.02	1.096-01
2F (Total nun	Total number of boreholes **	oles = 200	^								
Count	184	200	198	177	179	189	180	7.1	175	£ 5	~
Data percentage	92.0	100.0	0.66	88.5	89.5	94.5	90.0	35.5	87.5	6,5	หร
Kin	914.0	0.0	1.0	14.0	2.0	13.0	6.0	0.2	6	2.03E-04	1,40E-03
Max	2865.0	312.0	0.0	259.0	235.0	40.0	450.0	101.8	0.86	3.66E-01	8.24E-01
Average	2029.3	148.2	1.5	125.4	79.4	16.2	140.4	31.9	18.2	7.09E-02	9.95E-02
	220.3	51.4	1.7	50.3	45.1	n n	82.9	25.1	15.6	1.26E-01	2.436-01
2G (Total nun	Total number of poreholes	0193 = 27	~ •								
	267	270	270	238	232	233	230	101	211	63	n
Data percentage	97.6	98.5	98.5	86.9	84.7	85.0	6.53	36.9	77.0	4.7	4.7
2.3	250.0	13.0	1,0	2.0	-	10.0	2.0	0.0	0 , r	3.155-05	1,856-04
Max	2793.0	939.0	0.0	290.0	287.0	93.0	690.0	\$8.4	90.0	1.92E-01	6,116-01
Average	2173.7	115.6	٠. د.	87,6	62.5	17.4	148.0	19.3	13.5	2.80E-02	8.42E-02
Š, D.	9.600	85.9	1.1	0.69	62.4	4.2	140.5	20.0	9.G	5.93E-02	1.75E-01
Total oug	Total number of boreholes #	Stes # 72					٠				
, 105	9	o	74	9	£0 • 4 *	56	4	23	8 4	4	4
Data percentage	91.7	97.2	100.0	69,4	66.7	77.8	63.9	38.9	66.7		5.6
Kin	860.0	49.0	0.	14.0	0.0	8.0	4.0	1.0	1.0	1.94E-04	1,66E-03
Max	2636.0	325.0	9.0	274.0	264.0	25.0	620.0	107.0	56.0	2.25E-02	1.36E.01
Average	1812.6	171.1	1.5	122.9	90.6	16.6	118.4	35.4	19.2	6.30E-03	3.815.02
io.	373.3	62.7	£4	69.1	71,1	4.4	139.4	27.7	13.1	1.09E-02	6.56E-02
2) (Total num	Total number of boreholes	Nes = 113	. ~								
,	90	107	72	61	54 54 54 54 54 54 54 54 54 54 54 54 54 5	66	52	4 6	5.1	30	26
Data percentage	31.9	94.7	63.7	54.0	46.0	58.4	46.0	40.7	45.1	26.5	23.0
Min	366.0	ۇ. ۋ	٠,٠	2.0	9.0	11.0	0.4	0.	3.0	1,61E-05	1.125-04
Max	1000.0	254.0	Ö,	130.0	61.0	40.0	300.0	29.0	30.0	3.95E-01	8.495-02
Average	6.969	70.8	2,2	39,4	20.6	19.3	73.4	15,7	21.8	1.83E-02	1.53E-02
s. o.	142.4	39.1	۲٠ ۲۰	25.5	15.5	2.5	68.9	12.0	6.4	7.19E-02	2.18日.02

Table 1.2 (5/11) Aquifer characteristics by basin

Drainage.		Total	A O O K	Water level	ã		perama	1001	oriomad.	Transmis-	Storage
Cisso	Elevation	depth	type	Struck	Rest	Diameter	Yield.		2000	Bivity	coefficient
	ε)		•	Ê)	Ê	(e ₀)	(U/W!V)	ξ	(HOUT)	(m2/min)	
2K (Total num	Total number of boreholes	les * 22	_	:							
č	2.2	22		10	9	80	10	12	4	•	62
Data percentage	100.0	100.0	100.0	58.2	72.7	81.8	68.2	54.5	63.6	13.6	13.6
Min	1650.0	76.0	0.5	49.0	8.0	15.0	0.9	0.1	2.0	5.86E-04	3.86E-03
Max	2987.0	305.0	0.6	244.0	214.0	20.0	150.0	65.0	24.0	6.69E-03	3,41E-02
Average	2473.8	162.0	9.5	125.3	81.6	16.1	91.6	28.3	14.2	3.38E-03	1.71E-02
ás	486.9	53.4	2.4	47.9	61.1	2.1	48.0	23.6	8	3,056-03	1.55E-02
3A (Total nu	Total number of boreholes =	O 88 = 448	8								
Count	420	444	441	415	416	414	416	202	394	44	4.
Data percentage	93.8	99.1	98.4	92.6	92.9	92.4	92.9	45.1	87.9	10.7	10.3
Kin	12.0	17.0	0.	6.0	0.	7.0	1.0	0.0	1.0	4.58E-05	3.681.04
Kex	2301.0	372.0	0.6	338.0	204.0	200.0	766.0	176.2	99.0	5.03E-01	3.61E-01
Average	1699.8	131.6	16	100.2	51.1	17.0	105.0	37.7	18,4	2.54E-02	2.58E-02
ci ci ci	202.2	59.6	۳.	57.9	32.6	6.6	106.0	32.9	14.5	1.01E-01	6.15E-02
38 (Total nu	Total number of boreholes	•	158		-						
Count	1097	1148	1151	1110	1110	1098	1125	516	1072	36	92
Data percentage	94.7	99.1	99.4	95.9	95.9	9.4.8	97.2	44.6	92.6	8.2	7.9
Kin	152.0	12.0	0,1	5.0	0.	9.0	1.0	9.0	1.0	1.89E-05	1.885-04
Max	2715.0	473.0	0.6	420.0	265.0	152.0	826.0	141.5	0 66	6.10E-01	4.20E-01
Average	1784.1	135.0		101.2	47.7	16.8	136.7	40.1	17.2	1.43E-02	3.015-02
S.D.	240.1	57.7	٠ 8	54.7	31.5	5.4	109.2	92.0	12.8	6.39E-02	6.13E-02
3C (Total nu	Total number of boreholes *	oles # 52									
	4.6	-	10 10	51	4.8	20	4 6	24	4	ĸ	L/S
Data percentage	88.5	98.3	98.1	98.1	92.3	96.2	88.5	46.2	88.5	9.0	9.6
Min	1447.0	63.0	0.	22.0	8	10.0	9,0	9.0	0.1	1.83E-04	9.068-04
Wax	1950.0	245.0	0.	229.0	126.0	25.0	471.0	190.0	30.0	4.18E-03	1.605-02
Average	1564.5	143.2	0, 1	105.8	46.9	17.1	136.6	44.9	15.5	1,33E-03	5.98E-03
S, O,	108.3	48.2	0.0	50.9	24.6	63 53	125.6	44.8	7.7	1,64E-03	5.886-03
30 (Total nu	Total number of boreholes	oles = 26	^								
Count	25	4	26	25	2 4	2 6	26	* ÷	26	•	•
Data percentage	96.2	92.3	100.0	96.2	92.3	100.0	100.0	69.2	100.0	0.0	0.0
Min	1219.0	35.0	0.5	o.	9	15.0	0.	9.0 0.0	1.0		
™	2024.0	153.0	6.0	128.0	76.0	25.0	606.0	90.0	61.0		
Average	1396.4	103.0	Q. T.	73.8	29.3	16.7	1.3.2	42.1	6.64		
o s	154.7	31.9	1.2	32.9	20.7	2.8	134,4	27.6	13.4	٠	

Table 1.2 (6/11) Aquifer characteristics by basin

		,	i				•				
	4	4 6	2004	Section 19 and			o ide	1687	De la		
	(m)		20.60	(E)	ξ.	(ED)	(i/min)	(B)	(hour)	(m2/min)	
3E (Total pum)	Total number of boteholes	417									
		. 1		,	•	. 1		,		•	•
1000	171		117	203	101	100	0	4	- 0	ď	d.
Date percentage	94.0	100.0	100,0	68.0	86.3	89.7	88.9	46.2	86.3	3.6	3.6
K.S	440.0	0.0	0:	0,5	5.0	45.0	-	1.0	1.0	7.37E-05	5.01E-04
Kax .	1981.0	213.0	0.9	210.0	92.0	25.0	345.0	145.9	29.0	2,42E-04	1.20E-03
Average	1503.1	103.4	2.0	73.2	24.3	16.0	96.0	6.5.9	19.2	1.31日-04	8.555-04
s, 0,	276.5		9,0	37.9	9.6	2.3	83.1	35.2	43.9	7.556-05	2.86E-04
3F (Total num	Total number of boreholes a	olean 252									
5	248	N		207	203	207	208	102	195	4.5	S
Data percentage	98,4	100.0	100.0	82,1	82.9	82.1	82.5	40.5	77.4	6.0	6.0
M.O.	305.0	0.6	0,5	4	0	10,0	0.	0.3	4.0	Z.35E-05	1.685-04
Max	2286.0	244.0	0	189.0	165.0	51,0	680.0	144.2	99.0	1.28E-02	2.715-02
Average	1358.6	102.3	2.2	66.0	35.4	16.3	94.0	45.4	24.3	2.08E-03	8,175-03
0 4	312.9		4.	36,5	24.6	3,6	85.0	36.5	20.3	3.45E-03	9.305-03
36 / Total our	Total cumber of botcholes a	Olea - 31	-								
, Š	96		OF	9.0	90	2.7	e1	0	4	٥	Ó
	• a		8 40	9 Y Y	9 40	87.	4.0	0 0 6	45.2	0.0	0.0
Calle thermanicade	0 6		2 4) (•	•
C-124	5.510	> - - - - -) ·) (3 9) ()	- 1			
Max	1768.0		% 0,0	255.0	242.0	16,0	218	132.5	26.0		
Average	1309.9	71.2	4	47.5	33.0	14.6	91.5	30.1	12.8		
Ö.	318.6	64.5	0.5	51.8	47.4	2.1	0'99	42.7	8.8	٠	
3H / Total out	Total number of boreholes a	Q	~						· ·		
, =	et 67	· 21	00	n	17	2.8	n	50	00	4	
Outs Dernerstage	87.2	100.0	100.0	84.6			84.6	6.4.3	76.9	10.3	10.3
	15.0	0.0	9.0	0.	0	15.0	4.0	0	0.	1,025-03	5.735-03
×	1585.0	199.0	0.6	157.0	1.8.0	53.0	636.0	64.0	72.0	1.026-02	4.95E-02
Average	242.1	75.8		52.0	34.1	18.9	113.4	12.4	17.9	3.985-03	1.946-02
S. O. S.	409.8	51.2	7,0	44.3	32.8	7.7	1.4.6	16.2	13.4	4.21E-03	2.035-02
•	4	1									
٠,	TO SECURE OF SECURE SECURIOR S			u	•	•		•		•	
3000	n :	•	•	•	9	3 •		- (,		
Data percentage	100.0	100.0	100,0	100.0	100.0	100,0	100.0	20.0	100.0	20.0	0 0
Sio	716.0	37.0	٠ <u>.</u>	30.0	5.0	15.0	166.0	•	0.4	9.815.01	
AGX	762.0	67.0	, 0	61.0	35.0	20.0	397,0	-	56.0	9,816-01	
OG40AY	744.8	54.6	1,2	43.4	27.8	0.0	263,8	0	24,4	9.81E-01	
ď.	23.6	3.7.8	0 4	11.7	. S	2.3	39,4		20.7		
•											

Table 1.2 (7/11) Aquifer characteristics by basin

Orainage	:	Total	Rock	Water leve	7		Pumping	tost	Pullaging	Transmis	Storage
Clean	Elevation	41000	(ype	Struck	Rost	Diameter	YIOIA	Drawdown	hours	BIVITY	coefficient
٠	£			Ê	Ê	€0)	(u w/I)	(w)	(hour)	(m2/min)	
ax (Total nu	Total number of horeholes	٠	£ 5				٠				
, to	200	. 88		144	137	144	132	103	124	•	*
Data percentade	62.2	100.0	96.8	97.3	92,5	97.3	89.2	73,6	83.8	0.7	0.7
	, c	O I	5,0	9.0	7.0	8	2,0	0	1.0	5.16E-04	2.916-03
Max	1615.0	307.0	0	149.0	99.0	26.0	531.0	130.1	0.00	5.16E-04	2.916-03
Average	159.2	4	3.1	31.9	18.0	15.7	51.5	11.5	9.5	5.15E-04	2.91E-03
ó	307.1	34.2	0.5	20.3	10.4	4.5	63.0	15.5	13.2		
31 (Total D	Total number of boreholes	•	20								
ر دور	118	. ~	122	115	115	111	109	72	401	~	*
Data percentage	96.7	100.0	100.0	94.3	94.3	91.0	89.3		85.2	9.1	8,0
Kin	9	4.0	0	0.0	ò	10.0	0.5	0,5	1.0	4.25E-04	2.106-03
Max	2220.0	310.0	3.0	207.0	141.0	50.0	500.0	107.0	81.0	4.46E-01	2,105-03
Average	163.9	51.8	2.9	33.1	18.5	16.4	58.8	22.9	15.0	2,235-01	2.105-03
ດິ່	337.4	59.1	0.4	38.2	20.0	4.4	87.5	30.2	13.1	3,156-01	
3M (Totaln	Total number of boreholes	Toles = 1	59							\$ -	
ř	155	159	159	139	136	129	129	5.1	117	*	?
Data percentage	97.5	100.0	100.0	87.4	85.5	81.1	81.1	32.1	73.6	4.4	4.4
CIX	11.0	5.0	0.	2.0	2.0	2.0	2.0	9.0	0.6	4.71E-04	2.185.03
Max	2100.0	298.0	0.6	235.0	150.0	36.0	800.0	21.7	0.66	4.36E-02	8.50E-02
Average		93.6	13	58.0	25.2	16.9	155.7	4.0.4	29.5	8.39E-03	2.45E-02
ci vi	366.3	51.0	1.0	43.5	22.3	3.9	143.1	24.0	21.6	1.585-02	3.22E-02
o tator / No.	Total number of boreholes a	0.00	9	ē.							
Ę	23	5.0	2 6	24	4	2.4	2.6	17	11 13	w	v o
Data percentage	88.5	100.0	100.0	92.3	92.3	92.3	92.3	65.4	68.5	19.2	19.2
· ·	1189.0	24.0	0	13.0	0.6	15.0	9.0	0.1	0.0	4.81E-05	3.25E-04
X#X	1830.0	191.0	0	180.0	111.0	20.0	499.0	104.0	70.0	6.10E-02	1.97E-01
Average	1321.0	109.7	7.	7.4.7	42.0	15.8	142.4	28.2	23.4	1,23E-02	4.03E-02
	169.5	47.2	1.8	45.5	26.3	6.	114.0	34.6	15.2	2,72E-02	8.75E-02
AA (Total n	Total number of boreholes	۲-	~								
	67	(A	7.22	66	86	69	6.7	4	9	1. 1.	1.55
Data percentade	93,1	100.0	100.0	91.7	91.7	95.8	93.1	59.7	90.3	20.8	20.8
Kin	23.0	24.0	2.0	0.6	2.0	6:	9.0	0.1	0	4.81E-05	3.258-04
XeX	2438.0	244.0	100.0	180 0	121.0	92.3	499.0	108.5	88.5	1.92E+01	1.92E+01
Average	1621.1	115.1	9	80.4	49.1	17.0	121.1	33.7	21.6	1.63E+00	1.65E+00
Š.	475.9	51.5	12.0	44.3	31.9	9.6	99.3	32.8	16.2	5.04E+00	5.03E+00

					•		00.0	1691	E		0.07
Citab	Elovation	E CO	1400	Struck	S e b C	Diameter	Yield	C M OD M W L	B(305	¥1414	COOTTICIENT
	(w)		<u>.</u>	Ê	Ê	(E)	(I/min)	€	(4004)	(m2/min)	
48 (Total n	Total number of boreholes	105 m 75	-								
, 101	7.5	7.8	, 4,	2.4	*	¥	4.7	•	*	4	•
Data Dercentade	2 7 0	0 0	98.7	6.00	, K	85.7	, 60) () ()	* e	, 6, 40	
				- 6	;		,	, u	•	30.000	40.0
	2000) (2 6	- 4) (,	9 6		200	
7 H - 1 H -	0.0672	220.0) (2.5	90.0	79.0	0.00	200	0.0	00000	20.040.0
S, D.	233.6	N 40	, r	4 6 4	9 6	1	90 0 4. 7.	50.44	0.00	7.79E-04	1.40E-03
) 	!	•) ;		;) i				•
~	Total number of boreholes a	oles = 122									
Count	120	122	122	116	115	117	116	46	115	v	4
Data percentage	98.4	100.0	100.0	95.1	94.3	95.9	95.1	37.7	94.3	3,3	ы ы
Kin	1058.0	27.0	0.	18.0	2.0	15.0	1.0	5.0	1.0	3.568-04	2,92E-03
X-BX	2652.0	277.0	0	264.0	189.0	25.0	945.0	120.0	78.0	8.54E-02	3.01E-01
Average	1641.8	122.8	£.	97.4	43.0	16.4	124.3	53.0	16,0	2.306-02	8.055-02
S.D.	405.1	50.4	1.2	49.2	31.5	2.7	116.8	34.8	1.2	4.176-02	1.47E-01
40 (Total n	Total number of boreholes =	Oles = 15	~								
Count	4.	4	14		4	<u>د</u> د	12	80	12	9	0
Data percentage	93.3	93.3	93.3	80.0	86.7	86.7	80.0	53.3	80.0	0.0	0.0
Hin.	450.0	34.0	0	29.0	0.0	10.0	4.0	. o	Ø.0		
Max	1765.0	200.0	2.0	111.0	80.0	20.0	270.0	139.1	55.0		
Average	1241.9	112.9	6	69.8	29.1	15.4	71.8	78.9	24.3		
င် လ	305.4	52.2	4.0	28.9	19.1	2,5	86.0	42.9	14.7		
4倍 (Totalnu	Total number of boreholes =	30	-	٠							
č	29	29	5 9	25	27	2.7	27	1.7	2.5	47	4
Data percentage	96.7	26.7	7.96	83.0	90.0	90.0	90.0	56.7	83.3	43,3	13.3
Min	396.0	22.0	0.	18.0	0:	15.0	2.0	2.0	1.0	1.23E-04	8.135-04
Max	2060.0	201.0	4.0	186.0	108.0	20.0	275.0	94.0	51.0	2.93E-03	1.58E-02
Average	1208.3	110.0	1.6	88.4	42.3	15.9	64.6	48.5	1.6.1	1.53 E-03	6.50E-03
S. D.	294.9	42.9	0.7	41.5	28.7	2.0	64.4	31.6	15.3	1,43E-03	6.71E-03
ar / Total ou	Total number of boyeholes	100	-								
į	O)	0	56	9	4 6	53	4	23	4	80	80
Data percentage	84.5	84.5	96.6	86.2	79.3	4.16	70.7	36.2	7.07	13.8	13.8
2.5	230.0	11.0	0,5	7.0	9	40.0	2.0	1.0	2	4.18E-05	3.586-04
Max	1900.0	180.0	0,6	156.0	118.0	35.0	252,0	84.0	24.0	2.175-03	4.49
Average	1003.4	63.3	1,8	50.4	34.4	15.8	105.5	17.0	16.2	7.56E.04	4,46E-03
C	0 624	39.0	7.7	35.0	0.00	9	52.9	18.7	0	7.28F-04	2 00 E

Table 1.2 (9/11) Aquifer characteristics by basin

41 (m) (m) (m) (m) (m) (min) (Orainage		TOTAL	Rock	Water Jevel	je,		0.00		1	1	
(Total number of boreholes = 43		Elevation	40	400	Ctenor					BEIGEAL	-618887	90#J015
(Total number of boreholes = 4 3 1 33 38 36 33 17 32 44 4		(3			-	C * 00 * 0	HOLLE	*Ivity	coeffloient
Cotal number of boreholes 43 41 33 38 36 33 17 32 34 45 45 45 45 45 45 45		(E)			Ê	Ê	(ea)	(1/8/10)	(E)	(hour)	(m2/min)	
### Apercentage 97.7 106.0 95.3 76.7 88.4 89.7 76.7 38.4 74.4 1.63 8.7 1.63 8.7 76.7 38.4 74.4 1.63 8.7 1.63 8.7 76.7 38.4 74.4 1.63 8.7 1	. ~	nber of boreho	4	•								
## percentage	ید	4	4		er er	8			ţ		,	•
1920.0 1970.0 1	Data percentage	7.76	0.001	e.	7 2 7) a	,	1 C	~ `	7 .	י י	Ø
Total number of boreholes		4 66					200		7	4.4	0.4	4.0
Compared to the compared by		3 4 4		· ·	,	9	0.0	0.0	0.1	0.	1.63E-04	9,68E-04
Total number of boreholes 45.4 1.6 46.6 33.7 7.0 118.7 24.3 17.7 7.0		0.028	174.0	φ •	148.0	130.0	35.0	619.0	76.0	68.0	3.49E-02	1.46E-01
(Total number of boreholes = 41 (Total number of boreholes = 42 (Total number of boreholes = 16 (Tota	Average	670.5	91.7	, ç	56.9	39.0	18.8	104.8	23.9	17.7	7.07 F.03	2 GAE-03
(Total number of boreholes = 41) 33 31 34 34 16 29 a percentage 87.6 97.6 10.0 3.0 1.0 5.0 82.9 82.9 36.6 70.7 180.0 1737.0 172.0 5.0 150.0 140.0 25.0 342.0 132.1 72.0 1737.0 1727.0 172.0 5.0 150.0 140.0 25.0 342.0 132.1 72.0 1737.0 1727.0 172.0 5.0 150.0 140.0 25.0 342.0 132.1 72.0 1737.0 1727.0 172.0 5.0 150.0 140.0 25.0 342.0 132.1 72.0 (Total number of boreholes = 18) 35.2 77.8 77.8 55.6 16.7 20.0 100.0 100.0 100.0 166.7 77.8 77.8 55.6 16.7 20.0 259.2 134.5 2.9 117.3 104.1 15.4 47.4 10.6 20.9 100.0 222.0 3.0 185.0 219.0 69.2 65.4 26.9 2.0 100.0 222.0 3.0 117.3 104.1 15.4 47.4 10.6 20.9 100.0 222.0 3.0 117.3 104.1 15.4 47.4 10.6 20.9 100.0 22.0 2.0 4.0 4.0 10.0 27.0 14.7 11.5 89.2 110.0 3.0 2.0 4.0 10.0 27.0 14.7 11.5 89.2 110.0 22.0 2.0 17.0 10.0 27.0 14.7 11.5 89.2 110.0 22.0 2.0 17.0 17.0 17.0 17.0 15.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17	ດ່	519.6	45.4	1.6	46.6	33.7	7.0	118.7	24.3	14.0	1.37E-02	5.738.02
Marcantage 97.6 97.6 97.6 97.5 9	_	mber of boreh	oles = 41	^								
180.0 15.0 1		4	0.4	4		er.	4			c		
180.0 15.0 15.0 1.0 3.0 1.0 5.0 5.0	Data percentage	97.6	97.6	100.0	80.5	4 4 4	201	9 6	- 4	, k	D (9 ;
(Total number of boreholes = 18	M:o	180,0	15.0	0	, C)	, c	0.00		0	0
(Total number of boreholes = 1013.5 92.4 2.2 54.7 33.5 15.8 60.5 60.5 60.5 17.4 (Total number of boreholes = 18 18 18 12.7 35.5 15.8 60.5 16.7 17.4 (Total number of boreholes = 18 18 18 18 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0	Max	1737.0	172.0	8	150.0	0 0 0	2 4	2,7	> .	. 6		
(Total number of boreholes = 18 18 12 14 14 10 3 117.4 mt	Average	1013.5	92.4	2,2	54.7	e e	2	, c	45.0) v		
(Total number of boreholes = 18	Ġ	312.7	36.5	7.0	35.2	32.0	4	72.1	9 m	7 7		
(Total number of boreholes = 18		:		:			•	· ?	?	•		
## 18 18 18 14 14 14 10 3 11 1	~	mber of boreh	oles = 18	<u></u>								
## Percentage 100.0 100.0 100.0 100.0 66.7 77.8 77.8 55.6 16.7 61.1 2.0 26.40.0 232.0 23.0 68.0 23.0 68.0 25.0 48.0 25.0 48.0 25.2 23.0 17.0 12.0 12.0 2.1 2.0 26.40.0 232.0 3.0 185.0 219.0 23.0 68.0 25.0 48.0 25.0 48.0 25.2 24.0 17.3 104.1 15.4 47.4 10.6 20.9 25.2 17.0 9.0 2.4 16.6 20.9 27.2 17.0 9.0 2.0 40.0 27.0 1.4 4.0 10.0 27.0 1.4 10.0 20.9 24.0 11.7 10.2 10.4 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Docat	&	8 -	18	7	4	4	0	r	- 4-	o	Ċ
2640.0 252.0 2.0 35.0 17.0 12.0 12.0 2.1 2.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	Sata percentage	100.0	100.0	100.0	66.7	77.8	77.8	55.6	16.7	1,19	. 0	•
2640.0 232.0 3.0 185.0 23.0 68.0 25.0 48.0 25.3 259.2 134.5 2.9 117.3 104.1 15.4 47.4 10.6 20.9 597.2 597.2 54.1 0.3 48.6 52.2 3.4 17.5 12.6 13.8 (Z-2	30.0	57.0	7.0	35.0	17.0	12.0	12.0	2.1	2.0	•	•
Fage 259.2 134.5 2.9 117.3 104.1 15.4 47.4 10.6 20.9 597.2 54.1 0.3 48.6 52.2 3.4 17.5 12.6 13.8 12.6 13.8 (Total number of boreholes = 26 24 16 18 18 17 7 1 14 4.0 11.0 9.0 2.0 4.0 4.0 10.0 27.0 1.4 4.0 610.0 232.0 3.0 172.0 168.0 20.0 600.0 20.9 24.0 117.5 86.9 2.7 61.6 57.5 14.7 115.2 9.3 16.2 129.4 58.1 0.5 58.2 53.2 2.6 147.3 8.0 7.5 (Total number of boreholes = 106 1 0.0 82 82 81 94.5 77.4 17.0 15.0 15.0 1.0 2.2 1.0 percentage 96.2 98.1 94.3 77.4 77.4 76.4 86.8 41.5 77.4 10.1 10.1 10.1 15.0 12.2 1.0 2941.0 308.0 9.0 307.0 201.0 90.0 455.0 149.3 63.0 149.3 16.5 85.1 53.2 14.4 73.3 37.2 9.9 365.6 65.0 0.8 62.8 36.3 8.4 73.3 37.2 9.9	×ay	2640.0	232.0	3.0	185.0	219.0	23.0	68.0	25.0	48,0		ē
(Total number of boreholes 2 54.1 0.3 48.6 52.2 3.4 17.5 12.6 13.8 (Total number of boreholes 2 2 2 16 18 18 17 7 1 14 11.0 3.0 2.3 61.5 69.2 65.4 26.9 53.8 11.0 3.0 2.3 61.5 69.2 65.4 26.9 53.8 11.0 3.0 2.3 61.5 69.2 65.4 26.9 53.8 11.0 3.0 2.3 61.5 69.2 65.9 20.9 24.0 11.0 3.2 2.0 172.0 168.0 20.0 600.0 20.9 24.0 11.0 232.0 3.0 172.0 168.0 20.0 600.0 20.9 24.0 11.0 17.5 86.9 2.7 61.6 57.5 14.7 115.2 9.3 16.5 11.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	**************************************	259.2	134.5	2. Q	117.3	104.1	15.4	47.4	10.6	20.9		
(Total number of boreholes = 26) 16 18 18 17 7 14 26 24 26 24 16 18 18 17 7 7 14 26 24 26 24 26 24 26 25 24 26 25 25 25 24 26 25 25 25 25 25 25 25 25 25 25 25 25 25	ć. K	597.2	54.1		48.6	52.2	3.4	17.5	12.6	13.8		
1.0 24 26 24 16 18 17 7 14 1.0 9.0 2.0 4.0 4.0 10.0 27.0 1.4 1.0 9.0 2.0 4.0 4.0 10.0 27.0 1.4 1.0 9.0 2.0 4.0 10.0 27.0 1.4 1.0 232.0 3.0 172.0 168.0 20.0 600.0 20.9 1.0 232.0 3.0 172.0 168.0 20.0 600.0 1.0 232.0 3.0 172.0 147.3 8.0 (÷	mber of boreh	4	~								
11.0 92.3 100.0 92.3 61.5 69.2 65.4 26.9 53.8 11.0 9.0 2.0 4.0 4.0 10.0 27.0 1.4 4.0 11.0 9.0 2.0 4.0 4.0 10.0 27.0 1.4 4.0 11.0 232.0 3.0 172.0 168.0 20.0 600.0 20.9 24.0 11.5 86.9 2.7 61.6 67.5 14.7 115.2 9.3 16.2 129.4 58.1 0.5 58.2 53.2 2.6 147.3 8.0 7.5		24	26	44	9 -			17			•	. •
11.0 9.0 2.0 4.0 4.0 10.0 27.0 1.4 4.0 60.0 20.0 610.0 232.0 3.0 172.0 168.0 20.0 600.0 20.9 24.0 172.0 168.0 20.0 600.0 20.9 24.0 24.0 172.0 168.0 20.0 600.0 20.9 24.0 20.0 600.0 20.9 24.0 20.0 610.0 27.0 115.2 9.3 165.2 20.0 600.0 20.9 24.0 20.0 10.0 10.0 10.0 14.7 115.2 9.3 165.2 14.7 115.2 9.9 24.0 20.0 20.0 20.0 10.0 10.0 15.0 10.0 2.2 17.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Ata percentage	92.3	100.0	92.3	61,5	69.2	69.2	65.4	26.9	1 60 100 100	15.5	* * *
17.5 86.9 2.7 51.6 57.5 14.7 115.2 9.3 16.2 17.5 86.9 2.7 51.6 57.5 14.7 115.2 9.3 16.2 (Total number of boreholes = 106)	Ain	4.0	9.0	2.0	0,4	4.0	10.0	27.0	4	0.4	6.38F.04	- W W
17.5 86.9 2.7 61.6 57.5 14.7 115.2 9.3 16.2 129.4 58.1 0.5 58.2 53.2 2.6 147.3 8.0 7.5 (Total number of boreholes = 106	Aax	610.0	232.0	0.0	172.0	168.0	20.0	600.0	20.9	24.0	4.59E-02	9.336.03
(Total number of boreholes = 106) (Total number of boreholes = 106) bercentage	\verage	117.5	86.9	2.7	61.6	57.5	14.7	115.2	6.0	16.2	1.336-02	3.08E-02
(Total number of boreholes = 106) At 102 104 100 82 81 92 44 82 At 102 104.3 77.4 77.4 76.4 86.8 41.5 77.4 77.4 56.6 570.0 6.0 1.0 1.0 1.0 15.0 1.0 2.2 1.0 5.46E At 2941.0 308.0 9.0 307.0 201.0 90.0 455.0 149.3 63.0 7.12E At 122.0 1.1 106.1 49.3 16.5 85.1 53.2 14.4 1.73E At 173.2 9.9 2.69E	ര്	129.4	58.1	0.5	58.2	53.2	2,6	147.3	8.0	7.5	2.18E-02	4,215.02
102 104 100 82 81 92 44 82 percentage 96.2 98.1 94.3 77.4 77.4 76.4 86.8 41.5 77.4 77.4 76.4 86.8 41.5 77.4 77.4 76.4 86.8 41.5 77.4 76.4 86.8 41.5 77.4 77.4 76.4 86.8 41.5 77.4 77.4 76.4 86.8 41.5 77.4 77.4 77.4 76.4 86.8 41.5 77.4 77.4 77.2 9.9 2.69E	~	mber of boreh		-								
percentage 96.2 98.1 94.3 77.4 77.4 76.4 86.8 41.5 77.4 570.0 6.0 1.0 1.0 1.0 1.0 22.2 1.0 5.46.5 2941.0 308.0 9.0 307.0 201.0 90.0 455.0 149.3 63.0 7.12.6 99* 2172.9 122.0 1.1 106.1 49.3 16.5 85.1 53.2 14.4 1.73.5 99* 65.0 0.8 62.8 36.3 8.4 73.3 37.2 9.9 2.69.5	Sount	102	104	100	82	82	83	92			ţ	v.
570.0 6.0 1.0 1.0 15.0 1.0 2.2 1.0 5.46E 2941.0 308.0 9.0 307.0 201.0 90.0 455.0 149.3 63.0 7.12E 99* 2172.9 122.0 1.1 106.1 49.3 16.5 85.1 53.2 14.4 1.73E 365.6 65.0 0.8 62.8 36.3 8.4 73.3 37.2 9.9 2.69E	bata percentage	96.2	98.1	94.3	77.4	77.4	76.4	86.8	41.5	77.4	5.7	v 4 c
2941.0 308.0 9.0 307.0 201.0 90.0 455.0 149.3 63.0 189. 2172.9 122.0 1.1 106.1 49.3 16.5 85.1 53.2 14.4 365.6 65.0 0.8 62.8 36.3 8,4 73.3 37.2 9.9	din	570.0	6.0	o.	0.	0.5	15.0	0	2.5	0.	5.468.05	3.74F-04
BG+ 2172.9 122.0 1.1 106.1 49.3 16.5 85.1 53.2 14.4 365.6 65.0 0.8 62.8 36.3 8,4 73.3 37.2 9.9	Aax	2941.0	308.0	0.6	307.0	201.0	90.0	455.0	149.3	63.0	7.12E.03	100 H
365.6 65.0 0.8 62.8 36.3 8.4 73.3 37.2 9.9	verage.	2172.9	122.0	1.1	106.1	49.3	16.5	85.1	53.2	4.4	1.73E.03	8.64E.03
	റ്	365.6	65.0	0.8	62.8	36.3	8.4	73.3	37.2	6.6	2.69E-03	1.248-02

Table 1.2 (10/11) Aquifer characteristics by basin

9000		•	3		_		, d	•	1	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
,				101							
	CON BY OUT	0.00	• a ×	STORES	e de la	Cameter	D: 0 .	CAODARIO	40 TOE	×	0001110101
	Ē	1		(#)	Ê	(E0)	(1/min)	Ê	(noer)	(m2/min)	,
58 (Total num	Total number of boreholes	oles = 108	-								
Count	106	108	107	9.5	Ó	m 0	86	20	46	4	et*
Data percentage	98.1	100.0	1.66	85.2	84.3	86.1	500	20.0	87.0	4.6	D, Q
Kin	914.0	19.0	0,0	7.0	2.0	13.0	7,0	2.0	2.0	1.54E-04	1.198-03
Mex	2255.0	283.0	6.0	277,0	90.0	25.0	272.0	204.2	52.0	2,095-03	8,455.03
Average	1888.6	107.2	£.	69.7	40.2	15.6	91,5	57.3	12.7	7.84E-04	4.052-03
á	187.1	53.3	0.7	50.2	21.0	2.0	73,3	49.9	0.6	9.05E-04	3.44E-03
5C \ Total flum	Total number of boreholes	30 es a 46	^								
Count	4.4	0	4 73	4	4	6.4	6	24	3.1	v	ý
Data percentage	95.7	100.0	97.6	95.7	93.5	93.5	84.8	52.2	67.4	3.0	0.0
Min	229.0		o.	0.91	5.0	13.0	0	2.0	0:	6,185-05	4.76E-04
Xax	2134.0		5.0	263.0	146.0	63,0	236.0	146.0	99.0	6.736-02	5.458-02
Average	1714.8	138.3	1.4	100.8	45.8	16,7	88.7	63.0	19,0	1,195-02	1,195-02
S. D.	447.9	60.9	o.8	81.8	30.7	7.6	70.0	44.6	18.2	2.71E-02	2,12年-02
50 (Total num	Total number of boreholes a	10les # 107	7				-				
100	000	105	0	8	8	80	m TO	7.00	7.8	¥O	ĸ
Data percentage	93.5	98.1	97.2	80.4	78.5	80.4	78.5	34.6	72.9	4.7	4.7
N. I.	19,0	19.0	٠. ٥	2.0	9	10.0	2	÷.	0,	2.725-05	2.37E-04
Max	2804.0	318.0	0.0	207.0	151.0	25.0	677.0	121.9	99.0	1.805-02	3.105-02
Average	1708.4	104.9	8.	75.0	37.6	15.8	83.6	52.0	17.0	7.08E-03	1.18E-02
S.D.	473.5	48.0		40.4	25.7	2.4	102.2	35.3	15.8	9.24 6.03	1.36E-02
SE (Total num	Total number of boreholes	0.08 = 144	. ~			1,					
, <u>, , , , , , , , , , , , , , , , , , </u>	140	1.4.1	141	500	103	9	001	89	9.7	4.5	1.5
Sata percentage	97.2	97.9	97.6	71.5	71.5	80.6	75.7	47.2	63.2	10,4	10.4
	30.0	0.0		2.0	0.	14,0	1.0	6.0	0.	4.71E-05	3.425-04
fax	1960.0	292.0	0.0	263.0	247.0	30.0	455.0	211.8	99.0	4.71E-02	2.115-01
からからない	681,4	97.0	i.3	74.0	53.3	17.4	6.99	27.8	23.1	7.84E-03	2.51E-02
Ğ	402.5	67.1	1.7	62.0	54.3	3.6	80.6	39.1	20.5	1.48E-02	5,65E-02
is (Total num)	Total number of boreholes #	oles = 75	~	٠.					•		
	7.1		4 2	e vi	u)	62	80	24	50		
ata percentade	94.7		7.86	74.7	78.7	82.7	80.0	56.0	74.7	17.3	17.3
U.S.	0.66	11.0	.0	3.0	o N	11.0	0:	9.0	1.0	1.46E.04	1,185-03
/ax	2000.0	220.0	8,0	192.0	163.0	25.0	800.0	312.0	48.0	5.85E-03	5.28E-02
iverage	402.7	113.0	2.9	104.3	88.4	16.0	126.2	18.3	23.8	2.27E-03	1.13E-02
á	484.0	55.6	· -	47.4	46.3	ς, α)	145.3	47.7	11.5	1.93E-03	1.395-02

Table 1.2 (11/11) Aquifer characteristics by basin

Orainana			2									
Gaein	Elevation	depth	type type	Struck	_	Diameter	Yand Oray	test Drawdown	Preping	Transmia-	Storage	
	Ê			Ê	Ê	(mp)	(1/m/s)	έ	(hour)	(m2/min)		
SG (Total nur	Total number of boreholes =	les= 2€	_									
Count	4	9	9 1	13	5	5	4	L.	œ,		ç	
Data percentage	53.8	61.5	61.5	57.7	57.7	46.2	83.08	19.2	9 00	¥ **	, v	
T.	122.0	46.0	2.0	0.80	16.0	10.0	0		0	1.26F.04	10 H 20 K	
Mex	792.0	244.0	5.0	183.0	144.0	20.0	160.0	119.0	48.0	7.53E-02	1.945-01	
Average	529.1	116.5	2.8	69.1	58.2	16.1	47.6	8.04	20.9	2.52E.02	6 52F-02	
o ส์	165.6	51.7	9.0 8.0	38.4	31.9		43.3	47.3	14.7	4.34E-02	1.116-01	
5H (Total nu	Total number of boreholes	10108	_									
Count	•-	•-	•		-	•	•	o	ď	٠	•	
Data percentage	100.0	100.0	100.0	100.0	100.0	100.0	100.0	Ö	0.0	100.0	1001	
C N	610.0	89.0	0.0	53.0	43.0	15.0	48.0		•	5,655-04	3.168.03	
Max	610.0	89.0	3.0	53.0	43.0	15.0	48.0			5.65E-04	3.168.03	
Average	610.0	89.0	9.0	53.0	43.0	15.0	48.0			5,655-04	3.165-03	
o.	٠											
SJ . Total nu	Total number of boreholes =	oles = 34	<u></u>							•	-	
Count	29	32	40	24	24	28	9	4	#**	¥		
Data percentage	85.3	94.1	100.0	70.6	70.6	82.4	47.1	41.2	32.4	14.7	4.2	
	385.0	13.0	1.0	5.0	0.3	15.0	6.		9	1,25E-04	1.015-03	
Max Max	1820.0	260.0	0.6	155.0	114.0	25.0	240.0	69.0	32.0	1.04E-01	5.72E-01	
Average	6.033	90.5	4.4	47.6	31.0	17.9	88.3	31.1	21.5	3,645-02	1.46E-01	
o d	321.8	69.2	6.1	40.5	34.0	9.0	74.4	21,4	8.0	4.945-02	2.45E-01	
Jnkown (Totaln	Total number of boreholes *	holes = 363	~ n									
tount	123	337	292	250	238	293	217	191	203	40	0.00	
Jata percentage	33.9	92.8	80.4	68.9	65.6	80.7	59.8	52.6	57.6	11,0	60	
c z	6.0	0.0	 0:	3.0	0.5	10.0	0.	9.0	0	4.88E-05	4.03E-04	
Xer	2485.0	302.0	o.	270.0	179.0	200.0	471.0	155.0	48.0	1.855+00	4.20E-01	
**erage	1173.0	86,5	2.6	61.2	3.1	18.9	94.1	26.1	13.2	1.10E-01	4.15E-02	
റ	541.9	62.0	2.4	54.5	33.5	12.0	20.7	26.5	6.0	3.28E-01	8.36E-02	
o.	541.9	62.0	2.4	54.5	33.5	12.0		7.06		26.5	26.5	26.5 9.5 3.28E-01

Table 1.3 (1/8) Aquiter characteristics by district

				1						:					;	
				410	TO THE PERSON NAMED IN	* * * * * * * * * * * * * * * * * * *	A R. Co. Land		200	Pemping	tenta Vinte	47.40	Pumping	Recovery	Transmis.	namia. Storage
	(aminapi		E.	E		•	ê	E	(w 3)		(1/14/17)	Ê	(hours)	(hones)	(m2/min)	
		٠.				1										
(1884) A T T A ARRA 1884)	(Naires)	:			:							٠				
PAIR! APRILE X METERIAL A MAN	hains a said															÷
五二年 二年 人名英英巴本	5.7	4.04	E E E	· ·	# (X)		在科里	F. E. E.	o ti #	240	\$13	400	597	156	•	40 40
COLE SUITERING	2 H M M	***	** **	**************************************	***	5 · · · · · ·	0.7.7.0	12.43	10.40	\$7.00	11.00	45.87	90.87	20.74	13.70	96.41
****	五年 64	6 R.	# × 9	*	•	-	f4	-	٠	•	•	•	-	-	5.37E.05	3.96 5-04
ESTITUTE .	27.42	1.00	日本なる	EAT.	•	•	Out	9	00	*	44	176.3	ф Ф	9	1.105-01	4.20E-01
****	TH' WA	24.42	たて、 かなたか	A	4.4	2.40	112.23	01.4E	1. W. A. P.	\$ C. F	126.41	39.50	16.62	7.55	10.0	0.03
ATTAINATE TRAINER	44.5	*	20.00	***	4,44	F # 'A	£4.00	A. W. 10 P.	10.03	, * · · ·	106.81	33.18	13.03	46.4	40°0	0.0
Charlet and a sold transfer	(Minimum)															
東京なり · · 日日・日本日・本田 · 本日 - 本日本 - 一年 - 本日本	there is a state														<i>:</i>	
2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	***	***	**	***		5		e t	// *	404	**	800	9	444	er F	109
SERVICE STATE	4. 64	*5.50	4.4	40.00	***	林也,其事	04,40	48,64	04.44	£ 7, 5 \$	96,50	48.84	\$2,70	47.05	10,69	10.60
MINISTER	40.00	***	**	.ca	-	-	54	•	e,	•	-	0.0	-	**	1.695-05	1.88E-04
Marintim	***	40.4	***	1.4%	£	•	000	4 × 56	17.18	*	50/-	041	0	4	6.105-01	4.205-01
*****	48,85	4.1.1	京里·北非外外	113 65	17.18	1.14	100.13	郑章"此事	46.87	1,43	141,48	41.51	17.02	, o.	0.02	0.00
Artista or Transact		40%		80.44	31.15	***	41.4	A 40	2.87	94.0	114.41	33.55	11.64	F.31	90.0	40.0
								٠.								
PORATELY OF ARTHURS	THE THE P															
オード サオーアンオーエネ しょ ・オエーエー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	T		1	3	;	,	;	,				,	;	•	•	•
**************************************	s		* /			4		1		* :	y ,	; ;	- 4	9 4	1	1
TALTEST STATES	34.4	***	20,00	00'001	The the		100,00	24.00	100.001	2000	20,03	2	20.00		13.33	13.33
WINGHIAM.	4	4	N	* ;	•	و	4		ej 4	. ,	- 3	- 1	• 1	00.1	40-24-04-04-04-04-04-04-04-04-04-04-04-04-04	1048-00
*****	\$ 57 mm		N 1 N 1	5 1 1	و بن ر	• <i>†</i>	2 1	2 i		: <u> </u>		,	1	2	70-140-	104364°1
****	4		10001	3 - K		,			1000		2			7	3	2.5
APPEARING TAPIBLES	n north	5	****		##**A		68,50	#0°03	\$ K. ()	1900	7	34, 17	50.0	1	8	0.0
Property and a Coll of Munchine	· Marriage									-		·				
Paral authorize of narrana a train	Minnes a tyru					•										
おから おお とかが まかれ	594	141	7	102	g g	せんぶ	200	ř,	**	ri ¥	龙声	n n	*	ű	*	•
ACCOUNTANT BANK	4.144	K4 . K#	44.44	40° 44	44.64	100,00	64.49	51 9 6	はず、東京	あん つま	77.7	10.1	47.03	19.23	5.77	5.77
********	178 187	KU14.	44.51	1 T	•	-	75	, -	eks per	-	7	as.	_	-	A.32E-05	6.05E-04
****	Marine M.	27.0	25.41	*	•	*	EF.		d) Si	₩,	57	77	?.	p. 11	4.37E-04	7,268,00
* Average	4.4	7	いる シスサン	かん ひかっ	4	54.	4	ź	7	*	#11.700		0	o s	000	00
residence enquirement	# W. F.	ž	****	から、まず	***		***	***	1.0.4	40.4	1.4.00	24724	20.00	7	000	0.00
Countries when a ca (Nyandardan)	NAMES OF	•														
This is the properties of the	With the section															
Territoria in region	40	34.	***	181	10,5	* 7	**	4	***	es W	H H F	r.	21.0	7,	**	4 2
HATE BEFERENCE	**	***	100	**	200		44.50		8.00	50.00	r H	72.00	2	25.38	e d	ş
まさままます	44.4	4.2	1.44.5	*	,	•	*	n	es P	•	•	61	•	,	A H	1,46E-03
And transfer	5	**		940	,	,	¥.	74	2	*	カカす	7	5	g (i	77.6-01	1797日本。15
10,4147,8	1 1 X X X X	*	1. S. S.	4.60	7.87	200	F. 1.00	があったま	1000	13.0	4	7	r H F	1	0000	10.0
てまごちこうきょ さっちょてきんず	9	5000	1. T. C.	**	ļ,	40.7	4.70	n Ý	54	s. Á	4	3	\$0°#	9	r o	0.00

Table 1.3 (2/8) Aquifer characteristics by district

	Longitude (degree)	Latitude (degree)	Longitude Latitude Elevation (degree) (degree) (m)	(E)	Sorizon	# 0 0 0 1	######################################	Į į	Diameter (em)	Pemplan Nember	Yleid Yleid (i/m/i)	(E)	Pumping hours (hours)	Recovery hours (hours)	Transmis- slvity (m2/min)	series Storage sivity coefficient 2/min)
Olatrict code = 25 (Nyeri:) Total number of boreholes = 60	(Nyeri)												-			
Number of data	25	40	40	9	1-1	ď		4	:			,				
Data percentage	55,53	90.33	90.00	00.001	00.50		5			0		128	4	-	ď	**
E SE CE	26.67	-0.84	416	51		-	3	3	00.00	90.06	95.00	45.57	90.00	20.00	6.33	6.33
Ene Xex	37.33	-0.02	2436	24.6		٠ .	. :	7 :	* (-	7	74	~	-	7,326-05	5.30E-04
Average	36.94	-0.29	1925.41	121.98				9 6	10 P	∢ ;	924	108.5	4	69	6.978-04	5.118-03
Standard deviation	0.11	0.12	206.35	47.90	0.99	1.23		28.65	2,56	, e	99.00	40.04	75.17	2.33	000	0.0
District Course in the Course	7						:	,	1			. · · ·		10.	0.00	0.00
Total number of boreholes a 212	(AMIT:)			÷												
NEMBER OF date				,	į											
Data percentace	88.38		7	212	201	211	961	10 04 T	190	136	177	76	170	7	12	\$ 2
Minimum	4.00	9	27.42	100.00	94.51	99.83	93.87	91.98	89.62	64.15	83.49	35.85	80.19	20.28	5,66	6
Maximum	1		7	•	-	-	-	-	0	-	-	0,0	-	•	9.762-05	7.175-04
Average		9 4	7 7 7	0	•	Φ	226	150	6	•	636	97.2	5	ń	02 1 - 02	5.077.02
Standard deviation		,	142.02	70.83	66.	5.03	47.17	26.24	18,03	1.34	98.33	14.29	17.72	6.61	0	0.0
	•		00.00	67.33	. 6.	0.80	47.21	27,93	5.41	17.0	109,37	20.09	5.13	6.61	00.0	20.0
District code = 32 (Kwaje)	(Kwale)															
Total number of boreholes # 310	10 a a 310															
NUBBER Of date	227	230	27.5	0+0	144	700	e o		,		• • •					
Osta percentage	73.23	74.19	57.42	100 00	1 0	40.40		3 6	0 0 0	7	n i	9/-	246	-	22	21
Minimum	26.67	19.4.	•	٨	٠	•			74.KG	20.07	n (56.77	79.63	22,90	7.10	6,77
Maximos	39.63	.3.52	1830	. K		٠ 0	9 4 6	۷.	ν;	- (7	0.5	-	0,13	3.476-04	9.685-04
Average	39.36	4.23	217.20	62.75	1.47	1 10 10 10	9 6	0 -	, ,	1		1 20 1	on :	9 : N	4.46E-01	9.882-02
Standard deviation	0,20	0.22	303.62	47.46	0.78	12.0	68.12	20.0		0.0	21.00	0	2.73	3.02	0.02	0,0
								•	•	7.		00.71	2.0.5	4.4.	60.0	0.0
District code = 33 (Lamu)	(neer)															
Total number of boreholes a 14	Oles = 74															
AUTOPLOT GATE	*	•	-	4	=>	**	•	•	5	•	0	-	,	e	•	٠
Data percentage	100 00	100.00	100.00	100.00	57.14	85.71	42.86	42.86	76.57	57.34	64.29	7.14	00.00	14.70	4 6 4 6	* * * * * * * * * * * * * * * * * * * *
EDETER	40.36	4.40	-	œ	-	М	•	^	2	-	2.8		•			•
EREXEN	41,08	-1.67	200	112	-	n	5.4	23	9	N	000	. 6	,			70-107-
Average	40.77	2.10	56,50	52.71	00.4	2.83	13.75	12.00	14,36	2.13	153.67	2.00		,		70.00
Standard deviation	9.54	0.55	64.01	26.01	0.00	0.39	6.21	11.74	2.58	0.38	197.91	•	2.00	4.	20.0	0 0
District code = 34 (Mombass)	Mombasa)															2
Total number of boreholes a 25	vies a 25															
Number of data	4		**	ť	ć			į	•							
Data percentage	00	0			4 4		NI O		p.	-	2.4	•	22	*	٥	•
E-Caral				0.0	00.00	00.00	-	80.00	76.00	44.00	96.00	32.00	88.00	16.00		
Keximen	1 d			-	- 4	n e	ra (C.	0	-	43	-	14	•-		
Average	0 40) (70.0	134	8 1	o ;		4 2	2.5	-	0 8 6	2 3	6	•		
Standard decision	9 6 6	60.4	42.12	40.04	4.	9.00	28.95	20,05	16.42	00.	128.96	6.94	26.00	00.0		
***************************************	8 5 5	20.0	40.04	42.69	0.91	0.00		10.50	3.88	0.00	155.46	8.63	29.09	2.45		

Table 1.3 (3/8) Aquifer characteristics by district

	Longitude (degree)	Longitudo Latitude, Elevation (degree) (degree) (m)	Elevation (m)	Total depth (m)	No. of horizons	Rock type	Water leve etruck (m)	: ê	Diameter (Cm)	Pumping	Yield Dra	nwobwa (m)	Pumping hours (hours)	Recovery hours (hours)	Transmis- sivity (m2/min)	Storege	
District code = 35 (Taita Taveta)	(Taita Ta	reta)															
Total number of boreholes = 74	holes • 74		•	*	;	Ė	;	,	,	•	;		;	1	1	. (
Date possessings		* *	7		3		9 4	۵ ا ا	5	3	0 :	9 ·	NI I		•	N :	
Minimum	27.60		1 10	2	60		90.10	9.6	24.70	4 ·) (A. 10)	4.00	70.27	20.27	16.92	16.22	
Si Cine				1		- •	N .	v :	7 4	- •	N .	5 ,	7 1	- ;	40-11-04	2,156-03	
			2 6	· ·	0 2	6	7	2 4 5	2 4	* ;	000	201	E (9 (9.67 5.01	1.25E-01	
Standard deviation	40.0	0.17	274.30	49.85	6	0.93	37.09	21,75	0.50	1.02	106.26	27,61	11.75	9.76	0.25	0.0	
District code = 36 (Taba River)	Tana Riv						-										
Total number of boreholes = 15	Noise = 15	•															
Number of date	•	•	ø	45	•	8	4	٠	a	10	10	8	*0	Ċ	c	Ó	
Data percentage	60.00	60.00	60.00	100.00	26.67	56.67	26.67	40.00	60.00	33.33	53.33	13.33	33.33	13,33	•	•	
Minimum	38.73	2.42	76	£ 9	•	r	6	13	10	•	00	23.4	i)	~			
Meximum	40.25	1.67	974	181	14	^	150	140	0	•	4	25.1	₩				
Average	39.71	1.95	177.13	123.73	1.50	3.38	95.00	87.83	20.33	1.00	38.75	24.25	17.80	7.00			
Standard deviation	9.0	0.35	123.13	29.47	0.58	1.50	38.51	28.56	5.03	0.00	4,60	1,20	5.64	0.00			
District code = 41 (Embu)	(Embu								٠							=	
Total number of boreholes = 129	Holes = 129																
Number of data		0	12	127	106	117	€0; dh	4.0	115	5 2	0 6	80	6	¥9	(4		
Data percentage	10.08	10.08	00.0	98.45	82.17	90.70	75.97	65.12	69.15	67.44	69.77	66.22	68.39	50.39	1.55	1.55	
Moraca	35.85	-0.72	47 69 69	13	,-	•	^	-	0	•	2.5	e	-	-	4.89E-04	2.52E-03	
Maximum	37.78	0.17	1630	158	n	۰	186		50	4	720	4 0	24	7	2.93 6-03	1.555-02	
Average	37.52	-0.50	1217.75	59.43	1.80	2.05	44.20	17.16	14.62	1.07	70.44	31.86	8.08	4.54	00.0	0,0	
Standard deviation	0.51	0.24	199.74	21.55	0.47	1.75	25.64	15.95	2.46	0.37	112,49	18,49	6.27	6.11	0.00	0.01	
District code a 42 (isloid)	(ololsi)														-		
Total number of boreholes = 62	holes = 62																
Number of data	4	4	r 0	9	ti ig	8	F"	14	5.2	8	4	4	4	0.	.,	Ξ	
Data percentage	66,13	66.13	59.66	96.77	63.67	26,77	82.26	63.67	83.57	56.45	74.19	36.71	64.52	30.65	17.74	17.74	
Minimum	36.75	-0.57	o	۴	•	-	٨	-	9.	•	₹	-	•-	-	2.72E-05	2.37E-04	
Meximen	39.48	1.98	1524	4.4	₹.	۵	207	4.0	000	4	200	9 6	7.0	2	3.72E-02	2.116-01	
Average	37.87	0.65	835.00	96.37	1.77	2.37	66.39	43.12	17.50	. 4.5	119.39	24.11	25.68	7.05	0.01	0.03	
Standard deviation	0.77	0.47	453.67	54.57	0.76	. 30	44.83	37.64	3.90	F8.0	101.02	29.97	16.32	7.06	0.04	0.06	
District code = 43 (Kitul)	(Kitul)						-										
Total number of boreholes = 73	holes = 73	;	,	;		1	;	;	;	;	!	;	1	1		i	
NUMBER OF GETA	9	E)	10 10	12	10) 17)	o.	80	N)	r) Ø	10 17	2.1	o n	5	2.0		-	
Date percentage	79.45	79.45	79.45	95.63	79.45	94.52	80.82	79.45	86.30	52.05	76.08	41.10	69.86	27.40	9.59	9.59	
Ninimum	37.60	-2,25	396	(1 (1	F	-	n	,-		-	-	-	-	r	1,635-04	9.68E-04	
Maxinen	38.43	19.0	1237	198	4	a	2.40	000	25	n	619	132.1	7 2	7	3,49E-02	1.46E-01	
Average	38.06	14.1.	1022.67	21.07	1.66	2.48	45.12	25.79	17.35	1.61	71.30	44.85	23.27	11.40	0.0	0.0	
Standard deviation	0.17	0.4.0	221.49	37.40	0.81	1.50	34.23	23.31	5.61	0.0	99.23	36,44	16.38	12.68	0.02	0.05	

	cs by district
	Aquifer characteristics
	Aquifer
•	(4/8)
	<u>.</u>
	Table

	Longitude (degree)	Latitude (degree)	Latitude Elevation (degree) (m)	Total depth (m)	No. of horizone	HOCK (ype	Water leve atrick (m)	Ę É	Diameter (cm)	Pumping Kumber	tests Yield (I/min)	Orewdown (m)	Pumping hours (hours)	Recovery hours (hours)	Transmis- sivity c (m2/min)	Storage
District code a 44 (Machakos)	(Machakos	· ~														
NET DE COL GELS	664	4 63	484	503	4.4.5	501	439	437	. 044	20	436	223	411	D	50	3
Oate percentage	21.32	91.32	69.55	99.61	67.77	98.62	86,59	86.19	56.79	50.06	00.00	43.80	61.07	17.55	96.8	6.90
Eselex	36.92	.2.98	N	٠	r	-	-	۳	40	-	₹-	9.0	-	-	7.37E-05	5.01E-04
Farias	70.00	.0.68	2118	245	60	٠	4 - 4	3.65	5.	٨	766	150	å	60 17)	4.62E-02	3.61 6.01
Average	37.34	-1.70	1442.03	99.64	1.74	2.03	70.18	33.45	16.45	1.66	86,12	40.39	20.32	7.40	0.00	0.02
Standard deviation	0.01	0.38	200.00	44.60	66.0	91.1	39,37	25.16	3.24	66.0	97.60	19.50	17.83	30.25	F0.0	90.0
District code = 45 (Marsabit)	(Marsabit	_														
Total number of boreholes = 497	10148 = 497															
Number of date	Ġ	06	e3 40	40	*	ф Ф	40	70	e)	99	r v	4	(N	26	e1 	e F
Date parcentage	16.11	16.11	17.71	19.52	14.29	19.92	14.69	14.08	16.70	11.27	12.27	4.26	10.46	5.23	2,62	2.62
Kinima	37.00	1.25	385		••	r	64	0.0	m;	-	-	0.0	r	-	8.36E-05	6.02E-04
Eschar	39.45	3.62	1820	358	₩.	۰	314	247	000	•	5.4.5	0	72	B (6)	1.04E-01	5,728-01
Average	38.04	2.61	737.56	102.35	1.65	2.64	72.40	54.85	17.90	4.28	34.62	22.95	22.00	11.19	0.03	0.04
Standard deviation	0.63	4.0	294.80	73.28	0.79	5 B. L	73.68	63.77	3.35	0.62	106.00	21,62	12.20	15.99	0,0	0.16
District code = 46 (Meru.)	(Meru)															
Rumber of dete	001	101	8	100	7.6	900	9	-6	9	in Io	8.5	4	C1.	•	*	7.
Data percentage	86.21	97,07	06,15	93,10	93.62	93.10	82.76	78.45	52.76	73.26	73.28	42.24	70.69	16.38	12.07	12.07
Kining	24.0	.0.33	•		•		0	£7	4	•	~	0	-	•	4.186-05	3.585.04
Con X	26.25	0.52	2682	318	•	o	170	95	**	n	9	312	4	9	1.80E-02	3.105-02
Average	37.90	0.23	1179.00	87.46	2.00	1.82	64.10	40.93	17.84	1.22	120.07	26.76	15.23	14.0	0.00	0,0
Standard deviation	0.23	41.0	705.16	57.75	0.76	1,73	40.05	30.38	7.20	0.47	66.66	47.17	9.26	4,65	0.00	0.01
Total pure Day of Doubles a 22	oles - 77															
Number of date	44	7.2	40	15	67	7.6	5	40 43	63	s,	a Vi	6	5	0	-	
Data percentage	93.51	93.51	90.08	04.70	87.01	98.70	79.22	84.42	81.82	56.53	76.62	42.86	68.83	24,65	5.50	15.54
Moine	39.17	59.1.	7.	-	•	44	n	И	¢	-	-	io o	•	-	1.465-04	1.18E-03
Maximon	47.30	0.87	1219	232	40	10	in to p	9.79	64 64	•	000	8 8	4	a.	5.85 6.03	5.285-02
Average	40,18	-0.17	248,80	117.73	64 64	2.97	101.39	92.45	16.02	1,25	01,111	11.20	23.57	10.56	00.0	0.01
Standard deviation	0.55	0.76	262.18	56.45	6.42	0.80	48.85	48.29	3.27	9.65	149.72	11.63	12.29	18,04	0.00	0,01
District code * 52 (Mandera)	Mandera >															
Total number of boreholes = 43	Sies = 43															
Number of date	27	es	26	4	SC	₹ *	9	90	0	2 6	10 (1	r) •	e.			•
Data percentage	62.79	62.79	60.47	100.00	81.40	97.67	81.40	81.40	69,77	60.47	65,12	30.23	44.19	16.25		12.95
Minimum	40.10	3.65	205	4	•	64	¢	64	0	+-	•	-	•	•	1.46E-04	•
Meximon	41.87	0.0	925	300	ci	t o	43	179	(4 R)	4	160	119	4	•	7,53E-02	1,94
Average	40.98	10 m	597,31	142.05	1.29	13.83	94,54	62,03	17,03	1.27	65,25	24.08	21.37	3.43	0.02	0.06
Standard deviation	0.83	0.30	110.44	74.90	0.46	1.01	73.05	35.30	3.16	0.67	35.79	34.70	9.92	2.5	0.03	

Table 1.3 (5/8) Aquifer characteristics by	by district
1.3 (5/8)	characteristics
<u>.</u>	Aquifer
able 1.3	(2/8)
17	able 1.3

Compliance Littlines Conventions Compliance Conventions Complianc	Longitude (degree) 53 (Wellr) 54.87 61 (Kisill) 54.29 54.29 54.29 54.29 54.29 54.29 54.29 54.29 54.29 54.29 54.29 54.29 54.30 54.30 55.26 56.3 (Slaya) 56.3 (Slaya) 56.3 (Slaya) 56.3 (Slaya) 56.3 (Slaya) 56.3 (Slaya)	7	4.0					-								
9.1 (NIMI) 9.1 (NIMI) 9.2 (NIMI) 9.2 (NIMI) 9.3 (NIMI) 9.3 (NIMI) 9.4 (NIMI) 9.5 (NIMI)	53 (Wallr) 66,61 66,61 30,02 30,03 30,06 61,00 30,06 30,07 30				No. of horizons	Rock	Water leve struck (m)	E E	aete (ca	Pemping Number	tests Yield (I/min)	Orawdown (m)	Pumping hours (hours)	Recovery hours (hours)	Transmis- sivity (m2/min)	Storage
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	oofeholes = 112 86.61 38.62 40.97 39.76 61 (Kisil) boreholes = 26 34.29 34.29 34.29 34.29 34.29 34.29 34.29 34.72 34.20 34.20 0.10															
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	66,61 38,62 40,97 39,76 61 (Kiall) boreholes = 26 64,29 34,38 34,32 34	_	: .			•	i	i								
4.31	0.45 (40.97 39.76 (9.45 61.29 61.29 34.58 34.92 (9.45 61.29 62.76 (9.45 61.29 61.29 61.29 61.29 61.29 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 62.40 61.30 60.40 61.30	_	: .	100 00	68.75	9 6 6	1) R	5 K 75	22 22	4		40 t	1.0	5 28	S :	
1,000 1,00	61 (Kisii) 61 (Kisii) 61 (Kisii) 64.26 64.26 6 34.92 34.92 34.92 30.76 0.10 62 (Kisumu) 62 (Kisumu) 63 (Kisumu) 64.26 65 65 65 65 65 65 65 65 65 65 65 65 65	_		•) _F -	-) 	- *	<u>.</u> .	N .	47.00	4.40	25.00	00 C C C C C C C C C C C C C C C C C C	0.0
1 (Kisumu) 1 (Salya) 1 (Sa	39.76 0.45 boreholea = 26 18 18 34.28 34.28 34.28 34.29 0.10 62 (Kisumu) 0.10 67 (Kisumu) 0.10 97.74 97.74 97.74 96.34 0.15 0.15 0.15 0.15 0.15			000	4	100	216	190	40				- 6	- 44	00-11-1-1	0 0 0 7 0 0
No. Color	61 (Kisil) 61 (Kisil) 62 (4.29 34.58 34.52 34.52 34.52 34.52 34.72 on 0.10 97.74 97.74 97.74 00.0 0.15 00.15			119.07	3,35	2.96		75.72	90,35	46.5	61.20	7. 42	29.10	*		
### 64.28	61 (Kisii) boreholea = 26 16 64.29 34.58 34.58 34.97 500 62 (Kisumu) 62 (Kisumu) 62 (Kisumu) 63 (Kisumu) 64.00 97.74 34.00 97.74 34.97 67 (Siaya) 63 (Siaya)			69.10	0.58	1.35	55,59	49.65	2.66	47.0	49.06	42.55	15.75	12.62	000	9 0
1	boreholes = 26 44.29 34.28 34.28 34.26 34.77 10 62 (Kisumu) 62 (Kisumu) 62 (Kisumu) 63 (Kisumu) 130 97.74 34.00 35.28 34.97 100 63 (Siaya) 63 (Siaya) 80.12 80.12	-											-			
Column C	16 64.29 34.28 34.28 34.26 34.76 0.10 62 (Kisumu) 62 (Kisumu) 130 97.74 34.00 35.28 0.16 0.16 63 (Siaya) 63 (Siaya) 80.18															
### 64.28	64.29 34.38 34.32 34.32 ion 0.10 62 (Kisumu) 00raholea = 131 130 97.74 34.00 35.22 34.97 ion 0.16 63 (Siaya) coreholea = 161 129 80.12			14	5	2,	es es	5. T	N	*	2.1	23	202	1.4	ď	
34.88 0.6.23 1266 40 1 1 2 2.2 12 1 2 5 5 1 4 2 2 7 7550.0 34.78 0.6.25 126 126 126 126 127 21.0 112 12.0 12 12 12 12 12 12 12 12 12 12 12 12 12	34.58 34.92 34.92 34.92 34.70 34.00 97.74 34.00 35.28 34.97 on 0.16 63 (Slaya) boreholes = 161 22 80.12		75.00	96.43	75.00	75.00	78.57	67.86	78.57	75.00	75.00	75.00	71.43	60.71	17.86	17.8
34.72 0.07 0.34 223.36 0.34 1.78 1.9 11.4 4.8 4.0 1.2 2.2 1.44 2.2 2.2 2.45 0.00 0.10 0.34 223.36 0.34 0.37 23.43 11.34 6.41 0.44 1.45 0.44 1.45 0.00 0.10 0.34 223.36 0.34 0.37 23.43 11.34 6.41 0.44 1.45 0.44 1.45 0.00 0.10 0.34 223.36 0.34 0.37 23.43 11.34 6.41 0.44 1.45 0.44 1.45 0.00 0.10 0.32 10.12 0.34 1.04 0.40 0.40 0.40 0.40 0.40 0.40 0.4	34.82 34.75 34.75 62 (Kisumu) serendles = 130 97.74 34.00 35.25 34.97 on 0.18 63 (Slaya) serendles = 161 123 80.12		1265	•	-	r	и	4.2	t-1	-	vì	un.	w	•	2,22E-05	1.80 E-0
0.00 0.04 272.38 0.04 0.00 0.04 0.00 0.00 0.00 0.00 0.0	62 (Kisumu) 50-10 62 (Kisumu) 130 97.74 34.97 9.13 63 (Slaya) 50-12 60-12		2181	100	en j	an (7.	4 (•	es ;	225	144	**	42	2.75E-03	1.77E-0
Kisumu Marka Mar	62 (Kisumu) 20-reholes = 133 97.74 34.00 35.26 34.97 on 0.16 63 (Slaya) ocreholes = 161 61.28	0.34	223.58	92,56	0 4 ° 0		23.43	15.73	6.55	N 4	79.86	42.49	33,55	 	0.0	0 6
Control Cont	62 (Kisumu) 3040-130 130 97.74 34.00 35.26 34.97 100 0.16 63 (Siaya) 25.26 12.9					•		:	?				****	?	9.5	2
9.774 9.774 9.774 9.724 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	30 30 30 30 30 30 30 30 30 30 30 30 30 3															
9.774 97.74 97.74 96.24 100.05 87.37 61.75 91.20 112 17 1 1 1 0.6 17.25 32.33 30.08 33.00 32.28 0.00 12.2 17.25 17	97.74 97.74 34.00 35.20 34.97 0.16 63 (Siaya) ocreholes = 161 80.12	;	,	1			•		i							
34.00 0.00 155 1	34.00 35.26 34.97 0.16 63 (Staya) coreholes = 161 80.129	001		000	717	S - 2	92.0	2 2	121	107	6 .	0 0	116	÷	4	
35.28 0.20 1629 327 6 9 192 109 5 5 76 130 71 15 0.055470 5.58aya) 6.11 162.83 52.66 1.00 3.24 41.39 17.31 5.50 0.94 162.33 34.55 16.29 34.5	35.28 34.97 0.18 0.18 63 (Slays) boreholes = 161 129 80.12	. 0			;	:	-	7			•	9.5	77. 0	32.33	30.08	53
14.37	04.97 . 0.16 63 { Staya } creholes = 161 129 60.12	0.20	1829	22.7	٠	~	64	105	60	V)	750	130		- 10	1.056-01	174
(Slaya) (Slay	63 (Slaya) 50reholes = 161 129 80.12		1268.88	95.61	2.09	3.26	67.33	21.24	19.44	1.47	184.93	34.55	16.29	2.1	0.0	0
\$\(\chi_{10}\text{a}\)\$ (\$\(\chi_{10}\text{a}\)\$ (\$\(\chi_{10}\text{a}\	63 (Slaya) Moreholes = 161 129 60,12		162.93	\$2.66	1,00	3.24	41.99	17.31	5.50	0.94		29.19	15.14	3.16	0.03	0.0
### 129 11 160 69 112 91 61 142 85 87 93 87 13 3.12 ### 129 129 111 160 69 112 91 61 142 85 85 85 10 10 10 10 10 ### 120.22 124 125 125 10 10 10 10 10 10 10 ### 120.22 124 125 125 125 125 125 125 125 125 125 ### 120.23 124 125 125 125 125 125 125 125 125 125 125 ### 120.23 124 125 125 125 125 125 125 125 125 125 ### 120.23 124 125 125 125 125 125 125 125 125 ### 120.25 125 125 125 125 125 125 125 125 ### 120.25 125 125 125 125 125 125 125 125 ### 120.25 125 125 125 125 125 125 125 125 ### 120.25 125 125 125 125 125 125 125 ### 120.25 125 125 125 125 125 125 125 125 ### 120.25 125 125 125 125 125 125 ### 120.25 125 125 125 125 125 ### 120.25 125 125 125 125 125 ### 120.25 125 125 125 125 ### 120.25 125 125 125 ### 120.25 125 125 125 ### 120.25 125 125 125 ### 120.25 125 125 125 ### 120.25 125 125 ### 120.25 125 125 ### 120.25 125 125 ### 120.25 125 125 ### 120.25 125 125 ### 120.25 125 125 ### 120.25 125 125 ### 120.25 125 125 ### 120.25 125 125 ### 120.25 125 125 ### 120.25 125 ### 120.25 125 ### 120.25 125 ### 120.25 ###	Soreholes = 161 927 80,12										٠					
129 172 172 172 172 172 172 172 172 172 172	80,128 80,13											٠			٠	
80.07 86.94 89.28 55.28 65.57 56.52 50.31 86.20 62.04 5.77 6 54.04 5.77 6 54.04 5.77 6 54.04 5.77 75 10 4 1 0 0.3 1 2,775.05 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.885 0.30 1.785 0.30 1.885 0.30 1.785 0.30 1.885 0.30 1.785 0.30 1.780 0.30 1.885 0.30 1.785 0.30 1.780 0.30 1.785 0.30 1.780 0.30 1.785 0.30 1.780 0.30 1.785 0.30 1.780 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.785 0.30 1.78 0.30 1.785 0.30 1.7	80.12	5 7 7 8	111	160	& · 40	- 7	6	10	4.5	9 0	10	6	7.0	9	40	O
34.70	44	7. 4	65.94	90	55.28	69.57	56.52	50.31	36.20	52.60	54.04	57.76	54.04	6.07	21 12	-
34.27 0.14 1222.85 59.08 1.73 3.63 40.67 17.95 13.06 1.95 69.03 17.08 7.54 3.46 0.01 0.10 0.16 129.58 27.91 0.47 2.65 16.04 9.31 4.05 8.35 73.37 24.08 5.46 4.37 0.01 0.10 0.10 0.10 0.10 0.10 0.10 0.1	n 10 00 00 00 00 00 00 00 00 00 00 00 00			0 0		- 0	40.	- 4	. 0		• ;	- 6	n (y- (2,71E.05	2.36E-0
6.10 0.16 159.56 27.91 0.47 2.65 16.04 9.31 4.05 8.35 73.37 24.06 5.46 4.37 0.01 6.01 6.01 6.01 6.01 6.01 6.01 6.01	10 m		1232.95	40.65	17.	1.63	40.67	14.6	13.04	. 0	2 6	7 4 6 7	7		Z.50E-022	7.645.0
(South Nyanza)	0.10		159.58	27.91	0.47	2.85	16.04	9.31	4.05	3.35	70.07	24.08	4.4	4.07	9 0	9 0
(SOUTH NYMERS) (SOUTH											-	٠				
75.95 75.95 84.35 98.85 70.23 77.10 70.23 67.56 73.26 64.50 66.79 59.92 65.65 29.01 27.10 75.95 75.95 75.95 84.35 98.85 70.23 77.10 70.23 67.56 73.26 64.50 66.79 59.92 65.65 29.01 27.10 75.95 75.95 75.95 84.35 98.85 70.23 77.10 70.23 67.56 77.26 64.50 66.79 59.92 65.65 29.01 27.10 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ISTRICT CODE B 64 C COULT NYBRIGH	~				:										
75.95 75.95 84.35 98.85 70.23 77.10 70.23 67.56 73.26 64.50 64.79 59.92 65.65 29.01 27.10 34.02 -1.33 1000 21 1 1 7 7 1 10 1 1 1 1 2 7 7.10 24.42.05 35.50 -1.33 1000 21 4 1.96E.01 25.50 -0.025 119.12 34.17 0.72 3.32 34.41 19.07 15.45 72.63 25.76 11.25 6.98 0.03 0.20 119.12 34.17 0.72 3.32 34.42 16.53 3.83 0.50 72.63 25.76 11.25 6.98 0.03	000	001	-66	98.0	44.	000		177	6	•	*			•	į	•
34.02 -1.33 1000 27 1 1 7 7 1 1 1 1 1 1 2.44 2.05	26.05		24.35	V 10 10 00 10 00 10 00 10 00 10 00 10 00 10 00 10 00 10 00 10 1	70.23	17.70		67.58	10.00		٠,		- :	٠.		
35.50 -0.25 1488 214 6 9 201 100 34 4 320 143 81 44 196E-01 34.44 -0.64 136E-01 34.44 -0.64 136E-01 34.44 -0.64 136E-01 34.44 -0.64 136E-01 34.45 10.50 10.50 10.50 10.50 10.62 4.29 0.01 0.20 0.20 119.12 34.17 0.72 3.32 34.42 16.53 3.83 0.50 72.63 25.76 11.25 6.98 0.03	34.02	50.1	1000	2.7	•	-	۱ ۴۰) r	9.	, ,	;	*	;	>	71.17	2 6
34.44 -0.64 1346.30 75.63 1.90 5.58 54.41 19.07 16.45 1.15 74.79 29.96 10.42 4.29 0.01 0.20 0.20 119.12 34.17 0.72 3.32 34.42 16.53 3.83 0.50 72.63 25.76 11.25 6.98 0.03	08.86	7.25	1888	214	w	· ø		901	- 17	•	9.00	- 4		- 4		
0.20 0.23 119.12 34.17 0.72 3.32 34.42 16.53 3.83 0.50 72.63 25.76 11.25 6.98 0.03	44.40		1346.30	75.63	9	85.2		19.07	16.45		74.79			* 0	0.00	1
	0.20		21.911	34.17	0.72	3.32		16.53	5.63	0.50	72 63	25.76	1,25	4 6,	000	3 0
														-		

Table 1.3 (6/8) Aquifer characteristics by district

	Longitude (degree)	Latitude (degree)	Slevation (m)	Total depth (m)	No. of horizone	Rock type	Water leve atruck (m)	, (e)	0(ameter (am)	Pumpian Nember	19818 Vield (1/81/1)	C.W.O.W.	Pumping nours (eroor)	Recovery hours (hours)	Transmiss sivity c (m2/min)	Storage
District code = 71 (Baringo Yotel pumber of bombolas = 41	(Beringe)															
Number of data	4.6	4	63	4	7.6	4	0	47	o ti	S)	66	t-	63	4		
Oata percentage	79.07	79.07	76.74	100.00	86.05	93.02	96.37	04.10	90.70	58,14	76.74	29,65	74.42	32.56	16.28	16.28
Minimum	35.63	-0.03	914	73	-	•	Ľ		0	-	- 25		12	•	2.78E-04	1.40 2-03
Maximum	36,70	1.37	2134	2 15 (5)	•	m	264	204	10	n	80.04	137	49	5.7	S.71E-02	1.148-01
Average	35.95	90.0	1531.52	119.02	1.59	, t	108.11	69.31	18.79	04.5	134.18	26.18	22,41	12,66	0.01	4.02
Standard deviation	0.21	0.43	415.69	45.08	0.64	1.54	49.66	54.17	10.62	0.58	97.48	33.04	8.91	18.31	0,02	40.0
District code a 72 (Elgevo Marakwa:	(Elgevo M	Brakwet !														•
Total number of boreholes = 14	30les = 14									,						
ある ひしゅい ひとうだ	ď	°	0	7.	,	ņ	*	-		۰	4.5	40	5	~	64	
Date percentage	71.43	71.43	71.43	100.00	100.00	92.66	100,00	100.00	92.56	64,29	92.86	44.78	92.66	\$0.00	14.29	14.29
Minimem	14.25	0.65	609	4.4	-	•	99	ຕ	45	•	9	r	1,2	-73	9	6.79 6-03
Maximum	35.55	0.77	2300	188	n	64	176	8 0	20	4	165	113.6	44	es r	6,346-03	5.43E-02
Average	35.51	0.70	1320.30	111.86	05.	1.4%	67.07	38,36	15,77	9.00	81.16	32.03	31.69	7.29	0.00	0.03
Standard deviation	0.04	0.04	701.85	41.75	0.65	0.52	36.81	26.12	1.00	1.22	56.04	4.0	16.33	4.15	0.00	0.03
District code + 73 (Kallado)	(Xa)lado)														•	
Total number of boreholes = 323	10/es = 323					-							٠			
Number of data	266	266	249	320	294	816	203	209	295	217	273	1.01	264	129	5.6	5.4
Data percentage	62.35	82,35	77.09	99.07	91.02	98.45	89.47	54,60	55,76	67.18	64.52	59.64	81.73	39.94	17.04	16.72
Minimum	35.85	-2.98	0,	9	•	•	מי	٨ı	•	-	-	£.3	-	0	2.35E-05	1,685-04
Meximum	37.65	10.95	2286	202	÷	Ø1	273	254	F	v	800	144.2	£-	10	5.036.01	2.02E-01
Average	46.92	06.1,	1548.03	125.68	1.75	1.91	60.20	39.71	16.60	4.44	125.97	40.59	22.07	17.5	0,02	N 0.0
Standard deviation	0.32	0.57	276,93	53.73	0.82	4.50	52.32	36,47	3.33	0.82	104.35	37.05	12.70	11.24	60.0	50°0
District code # 74 (Kerlohe)	(Kericho)															
Total number of borenotes + 54	45 - 4010															
NESDS OF GREE	r e	5.5	5.1	4	4.5	13	4.5	4	4.7	90	4 6	27	4	v	и	64
Data percentage	94.44	94.44	44.44	100.00	65.33	98,15	83.33	83.33	40.78	54.81	85,19	20.00	77.78	11.13	3.70	0.70
Minimes -	25.03	0,73		n	-	-	ው	rs	8	-	-	n	eo.	-	1.26E-04	9.84 5-04
Meximum	35.65	-0.03	3120	744	43	a	n 13	7.0	4	•	606	160.3	9	3 . '	4.83E-04	3.516-03
Average	25.28	00.00	2036.90	146.41	60.	. O	105.67	40.33	16.66		419,05	55.41	15.86	4.67	0.00	0.00
Standard deviation	0.18	ø0	465.49	49.40	1.03	2.35	55.80	30.67	3,68	1.15	120.56	46.92	15.67	3,72	0.00	00.0
District code = 75 (Laikipia)	Leikipie)															
		ď	4	0.0	4.6	0 . 0	900	204	606	,,,	810	601	200	٠	-	•
	64.50		16 40	000	27.77	000	24.78	5.36	60.75	4	94.21	42.68	66.66		F. 4	4.18
		4 4	3 (2 6		,	,	,		,						
	200	\$ 4 5 0	> 1	h k	- 4	- •	. 6	• {	3 #	- •	***	1 6	- t	C		2 0 4 1 0 2
ENGINE	,	0.0	*	3			2		3	• •		, ,			,	
Average	30.04	0.70	01,6061	126.10	3.	D 1	B	9 6	96.0	7	97.00	- t	300	*	0 0	0.0
Standard deviation	0.29	14	719.70	, n. o	3	۵. و.	700	,	*	Ž	6.6	97.7	\$	2		5.5

Aquifer characteristics by district	
(2/8)	
Table 1.3	

•		•	1				•			•	:	٠.	-			
	aple	 	(4/8)	Age	quiter		characteristics		oy a	district						
	Longitude (depree)	Latitude (degree)	Elevation (B)	Total Eppth (3)	No. of horizone	Hock type	Water level atruck (m)		reat Diameter (B) (cm)	Pumping Number	tests Yield (t/min)	(E)	Pumping hours)	Recovery hours (hours)	Transmis- sivity (m2/min)	Storage
District code = 76 (Nakuru) Total number of boreholes = 767	(Nakuru)															
Mumber of data	718	718	705	765	678	755	675	673	989	446	676	291	643	137	4	4
Data percentage	93.61	93.61	91.92	99.74	88.40	98.44	68.01	57.74	89,44	58.15	14	37,94	63.63	17.86	6.26	5.74
Minimum	35.27	00.1.	2000	0		•		-	0	-	ç-		-	-	3.15E-05	1,855,04
Maximom	00.00	0.28	2987	600	• }	o	290	287	•	۸	069	115.8	0,0	6	1,85£+00	8.24E-01
Stendard deviation	00.00	0 2 4	313.25	70.40	0.0	2 2	106.58	66.65 66.45 65.45	3.64	1,43 0.85	112.73	27.20	13,18	7.47	0.0	0.00
							,									;
District code a 78 (Narok)	(Narok)															
Number of date	2.3	8	25	47	3.6	4.6	10	e,	et et	*	6	76		*	4	•
Deta percentage	60.53	60,53	65.79	00.00	66.42	55,54	65.79	60.53	- 10 - 10	60.00	60.53	63.16	54.F5	31.58	4 7 7	16.79
Minimum	34.87	1.60	1500	4	-	•	٠	~	115 E	-		0	}		1.53E-04	1,24 E.03
Maximum	56.93	-0.58	2758	306	n	٥	267	213	ss N	n	168	80.8	1 C	ri F	9.77E-03	3,745-02
Average	35.79	-1.16	2037.92	147.39	1.73	2.15	82,36	56.43	16.43	4.33	74.04	38.22	17.73	6.75	0000	0.02
Standard deviation	0.43	0.34	306.27	67.73	0.53	2.06	62.03	55.33	2.63	0.64	26.02	23.69	11.28	3.70	0.00	0.02
District code = 79 (Samburu.)	(Samburu	-														
Total number of boreholes = 69	hoies = 69															
Number of data	62	4	O	8	0.5	eo e	0 8	4	9 %	28	F T	20	e e	•	·	*
Date percentage	69.60	99.69	96.99	100.00	72.46	98.55	72.46	71.01	41.16	40.55	59.42	28.99	52.17	23.19	10.14	10.14
	9 6		7 7 7			r- 1	, (o ;	0 (7	7.2	- (- :	5.166.05	3,718-04
	1 0		*** *****	9 4	• :		X 0 T Y		3 6	• 6	7	*	* c	4 4	6.735.02	5.45E-02
Standard deviation	0.07	0.0	456.66	4	0.76	 	29.21	26.13	2.6	9.0	71.68	43.10	30,00	9 7 7	90.0	0.0
District code = 81 (Trans Nzola)	(Trans Nz	oia)										•				
Total number of boreholes = 53	Toles = 53															
Number of date	0	Š	8	20	43	50	4	4	ø 13	e	4	2	•	2	-	•
Data pergentage	94.34	40.44	94.34	100.00	81.13	100.00	83.02	43.02	73.50	62.25	81.13	39.62	75.47	10,01	1.69	1.89
ESECTE.	34.78	0	904	n ,	- (- (n (۰ ;	0 (•• •	- !	5. F	r ;	- 1	5,095.03	2.16E-02
Average	46.00		00 2966	- C	44 .	, (7 c	0 6	7 6 6	• [77 07	* *	, t	5.09 E.03	Z.16E-0Z
Standard deviation	0.13	0.13	653.21	45.80	0.67	1.10	23.29	11.27	2,35	0.74	41.36	45.20	6.3	2.0.7	2	7
District code = 82 (Turkana		~														
Total number of boreholes = 412	holes = 412															
Nomber of date	n	318	4	400	275		277	0 4 0	17 17 18	233	232	204	212	119	122	106
Data percentage	76.46	26.46	35.92	97.09	66.75	76.46	67,23	60,19	06.69	56.55	56.31	5.64	34,12	25.88	29.61	25.73
E 16 12 13	14.17	n e	0 6	84		- (6.	<u>.</u>	- :	- 4		• ;	- }	* *	7.316-05	9.70E-05
STEXES	36.73	6.00 0.00	1629	d o	ָר מי י	en (900	, 10.4	9 1	М ;	4 4	9 1	9 4 4 4	DN (9.415.01	5.48E-01
Average Average Average	9 6	0 H	37. L.70	0 0	0 C	2.08	00,000	57.5	0 4 6 4	9 6	p	90.00	22.30 p k	0 2	9 (0.0
	•	,	2	; ;	>	•	,		•) d -	2	<u>:</u>	3	Š		;

by district
Aquifer characteristics by o
1.3 (8/8)
Table

	Langitude (pegree)	Latitude (degree)	Elevation (m)	Total dept (E)	No. of horizons	(€ (Water leve atruck (m)	7. (E)	Diameter (om)	Pumping Number	tests Yield (I/min)	(E)	Pumping houfs (hours)	Recovery hours (hours)	Tranamia- Bivity o (m2/min)	Storage	
District code = 83 (Ussin Gishu	(Usain Gia	, è															
Number of date	127	127	77	130	9.	124	120		111	න ව	130	9	110	7.1	ń	n	
Data percentage	96.21	96.21	94.70	28.48	90.15	40.06	16.06	88,64	84.09	51.52	90.94	40.40	83.33	6.33	2.27	2.23	
His Bet	33.02	0.00	266	•	-	•	rì	-	4	۳	Ñ,	0.5	₩-	-	1.74E-05	1.656-04	
Facilian	26.27	0,92	2621	9 9	₹ ;	• ;	9 90 10 10 10 10 10 10 10 10 10 10 10 10 10	101	(A)	* 1	0 9	211.8	72	•	4,646-03	2.116-02	
Standard deviation	0.00 4 0.00	4 6.0	1294.27	78.45 51,66	0.57	0.50 0.60	40.60	16,94	10,07	8 9. 80.	78.46	45.27	9.0	5.72 2.72	9 6	0.0	
District code = 84 (West Pokot)	(West Pok	ot)															
Total number of boreholes a 42	Pholes a 42		,	!	,	,	1			,			1	;		;	
Number of data	90	9 1	10 4 F4 5	7	40	Ø ;	27	2 4	D. 1	9 0		0 1	2 2 2	23	•	#D {	
Cata percentage	15.57	55.77	99.00	00.00	42.24	35.06	58.10	26,10	92.40	62.23	73.61	7.1.	46.19	94.76	42.50	42.00	
Maximum		0 6	9 4 6	202	- 6	ר ט	. 40	* 6	- 6	- 6	- 22.6	- **+	- 4	- σ	20.746.7	0.000	
Average	35,12	4.4	1510.80	77 79	1.53	2.15	45,57	22.38	14.23	1.06	42,71	21.46	18,69	. 4.	00.0	0.0	
Standard deviation	0,10	0.47	320.78	34.36	0.51	91.	22.33	11.57	4.92	0.23	56,04	32.55	40.6	2.26	0.0	6.00	
District code = 91 (Bungoma) Total number of boreholes a 176	(Bungoma holes a 176	_															
Number of data	4.	04.	40.0	174	07.	130	104	101	183	40	40 40	0.0	6.7	-	6	* .	
Oata percentage	44,09	64.09	78.87	96.56	62.80	85.23	59.03	47,39	66.93	29.77	38.64	36.80	16,07	5,58	10.23	40.23	
Minimum.	20.23	0 4.0	547	10 F	₩.	- 4	N ;	- ;	4 3 (- 4	6 (- ;	- 1		2,005-04	
E DE NAME	6 c c c c c c c c c c c c c c c c c c c	0	0000	0 0	ra •	э ; С		0 0	7 Y	• •	2002	9.4				200	
Standard deviation	0.00	0 0	403.92	10.03	0.0	2.13	16.92	10.77	¥.0	0.56	67.21	30.01	60,4	*	0.0	0.0	
District code = 92 (Busia)	(Busia)	-										•					
Total number of perenoles a 200	1010 a 1010U	000	44.4	288	700	306		4	1.54	45.	140	465	4	4	e de		
Data paroentana	1 8 E	72.67		11.00	44.60	76.67	66.02	38.33	92.71	53.47	46.61	46.63	80.08	22.92	17,36	16.32	
Plates -	24.02	0.03	0 0	7,	•-	-	*	· -		-	C4	•	-	-	9.365-06	7,252.05	
##XIDE#	35.27	0.77	1800	145	64	œ	4 60	ø	00	n	200	1.00 1.00	40	S)	4.366-02	1.568-01	
Average	34.22	0.36	1231.97	53.97	4.59	2.50	36.70	12.54	34.10	1.02	55.18	13.66	6.47	2,23	0.0	0,02	
Standard deviation	0.14	0.1	122.61	16.75	9.4.0	φ. •	14.52	9.74	4	0.19	94. P.	11.00	6.72	2,9	9.0	0.03	
District code = 93 (Kakamega)	(Kakamega	~	-											-			
Total number of boreholes = 323	holes = 323	,	. '	į		;	1	;	;	,	,	;	,		•	. '	
Number of data	6 6 6 7	Ne d On 1 Ne d	() () () ()	323	2	272	17 17 18	2 4 4 5	6 7 6	200	7	1 0 V	007			* 64 -	
Data percentage			1210.00	22.00	9 0		000		00.0	00,1	9.00	90.	0.00				
Taxatanan	00.00	0.75	1690.00	116.00	4	9.00	102.00	49.00	29.00	4.00	279.00	102.70	36.90	•		2,236.01	
Average	24.63	40.0	1424.01	46.37	1.63	2.46	32.00	10.71	15.76	1.02	67.57	7 23	5.77		1.045	2.776-02	
Standard deviation	0.18	0 0	115.63	13.35	0.52	1.65	13,23	2 2 2	4.30	0.33	56.21	12.83	6.51		1.625-0	4,856-02	
District code + Unknown	UMO.															2	
Total number of boreholes = 46	Oles = 46					•				;		•					
Number of data	0	2	·c		-		-	9	-	D	ř.	O	17				
Osta percentage	41.67	27.08	12.50	29 17	22,92	25.00	22.92	17.50	72.92	41.67		36,95	35.42	3,1			
とうとうとう	54.18		1200	÷ ;	- 1	- (о» (e ;	0 (- 4		r* ;	- ?	• 1	2 4	2,156-03	
	00.00	0.03	1900		n (t	0 0		000	» ·	747	1 6	47		7.32		
Average	36.27	, o	00,1481	6 C	200	ه د ي د	97.00	00.77		04.40 01.44	10.40	2 0 C	4 6 6	9 4		300	
Standard deviation	0 0 1	>	41.674	*	2	·	•	:	h : :) 	<u>}</u>	i i i	;				

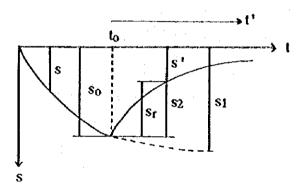
I.4 Analyses of Recovery Test Data

A step-drawdown pumping test and a recovery test have been generally conducted after drilling a borchole, but constant-discharge pumping test has hardly been carried out in Kenya. Recovery test data can be analyzed, only when the pre-pumping is done at a constant rate, to estimate hydraulies of aquifers and drawdown of wells.

(1) Recovery test as an important part of aquifer test

When pumping is stopped, water level of well and aquifer rise towards their initial or rest levels. The time - drawdown measurements taken during the constant - rate pumping period and the time - recovery measurements taken during the recovery period provide two different sets of information from a single aquifer test.

During the recovery period, water level measurements can be made without being affected by pump vibrations and momentary variations in pumping rate. The time - recovery data for the pumped well are more accurate than its time - drawdown data of the constant - rate pumping test.



so : Final drawdown [m]
sr : Recovery [m]
s' : Residual drawdown (= so - sr) [m]
to : Time when pumping stopped [sec]
t' : Time since pumping stopped [sec]
t : Time since pumping started (= to + t') [sec]

Recovery data can be analyzed only when the pumping is done at a constant rate. The residual drawdown at any time during recovery period is the difference between s1 and s2.

$$s' = s1 - s2 = \frac{Q}{4\pi T} W(u) - \frac{Q}{4\pi T} W(u')$$
 (1)

$$u = \frac{S}{4T} \left(\frac{r^2}{t} \right), \qquad u' = \frac{S}{4T} \left(\frac{r^2}{t'} \right) \qquad (2)$$

Q : Pumping rate [m3/sec]

W: Well function

T : Transmissivity [m2/sec]
S : Storage coefficient

When the value of u in equation of the well function is less than 0.01, that is, when r2/t becomes very small, an approximation method developed by Cooper and Jacob permits a solution. Therefore, equation (1) is approximated by

$$s' = \frac{Q}{4\pi T} \{ (-0.5772 - \log eu) \cdot (-0.5772 - \log eu') \}$$

$$= \frac{Q}{4\pi T} \left\{ \log e \frac{4T}{S} \left(\frac{t}{r2} \right) - \log e \frac{4T}{S} \left(\frac{t'}{r2} \right) \right\}$$

$$= \frac{2.303Q}{4\pi T} \log \frac{t}{t'} \qquad (3)$$

Similarly, the residual drawdown at any time during recovery period is difference between so and sr.

$$sr = so - s'$$

$$= \frac{Q}{4\pi T} W(uo) - \frac{Q}{4\pi T} W(u')$$

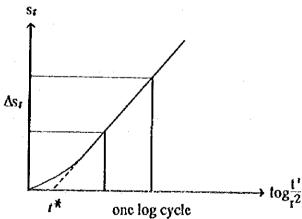
$$= \frac{2.303Q}{4\pi T} \left(log \frac{2.25Tto}{Sr2} - log \frac{t}{t'} \right)$$

$$= \frac{2.303Q}{4\pi T} \left(log \frac{t'}{r2} - log \frac{S}{2.25T} - log \frac{to}{t' + to} \right)$$
(4)

The value of $\log to/(t' + to)$ should be zero when pumping period would be large. Therefore, equation (4) is

$$sr = \frac{2.303Q}{4\pi T} \left(log \frac{t'}{r^2} - log \frac{S}{2.25T} \right)$$
 (5)

When t' becomes large, the plot of the observed data would fall on a straight line as shown in the following Figure.



The value of t/r2 is usually chosen over one log cycle so that equation (5) becomes:

$$T = \frac{2.303Q}{4\pi\Delta s_f} \qquad (6)$$

Storage coefficient is determined by projecting the straight line to the zero residual drawdown intercept which defines log t/r2.

$$S = 2.25 \text{ T log} \frac{t'}{r^2}$$
 (7)

Table I.4.1 (1/15) Analysis of exising recovery test data

									-
8/H	Хī	YI	Gradient	Q	delta	Transmisivity	Intercept	1*	Storage Coefficient
No	Α.	• •		{t/mtn}	s f	(m2/mln)			Coemini
					3.67	3.39E-04	-1.83	0.50	3.82E-04
3656	3.8	12.1	3.67 58.33	6.8 15	58.33	4.718-05	-188.33	3.23	3.42E-04
3657 3658	4.0 3.6	45.0 33.0	55.00	23	55.00	7.65€-05	-165.00	3.00	5.17E-04
3673	4.9	32.0	40.00	76	40.00	3.48E-04	-164.00	4.10	3.21E+03 6.64E-03
3683	3.4	20.0	18.89	130	18.89	1.26E-03	-44.22	2.34	6.045-03
3685				\$21		4 005 04	-48.40	3.03	8.56E-04
3686	4.4	22.0	16.00	11	16.00	1.26E-04 4.94E-04	28.67	2.15	2.39E-03
3687	3.5	18.0	13.33	36 78	13.33 40.91	3.49E-04	-96.36	2.36	1.85E-03
3694	3.7 3.2	55.0 12.3	40.91 3.00	152	3.00	9.27E-03	2.70	-0.90	
3695 3696	4.3	11.0	15.00	12	15.00	1.46E-04	-53.50	3.57	1.18E-03
3706	4.0	47.0	39.17	88	39.17	4.11E-04	-109.67	2.80	2.59E-03
3715	3.0	32.0	25.00	88	25.00	6.44E-04	-43.00	1.72 3.87	2.49E-03 2.37E-04
3728	4.5	110.0	175.00	26	175.00	2.72E-05	-677.50 -50.17	2.74	7.44E-03
3731	3.5	14.0	18.33	121	18.33 10.00	1.21E-03 2.31E-03	-30.00	3.00	1.56E-02
3747	4.4 3.4	14.0 58.0	10.00 45.50	126 121	45.50	4.87E-04	-96.70	2.13	2.33E-03
3752 3753	3.0	11.0	8.75	180	8.75	3.77E-03	-15.25	1.74	1.48E-02
3755	3.9	50.0	57.14	23	57.14	7.37E-05	-172.86	3.03	5.01E-04
3757	3.6	58.0	46.67	76	46.67	2.988-04	-110.00	2.36	1.58E-03
3761	3.4	30.0	83.75	25	83.75	5.46E-05	-254.75	3.04	3.74E-04
3781	2.9	19.0	16.67	101	16.67	1.11E-03	-29.33 -26.50	1.76 2.12	4.39E-03 5.03E-03
3782	3.0	11.0	12.50	72 160	\$2.50 6.25	1.05E-03 4.69E-03	-14.75	2.36	2.49E-02
3783 3785	3.8 2.8	9.0 13.0	6.25 13.33	152	13.33	2.09E-03	-24.33	1.83	8.57E-03
3787	3.4	16.0	17.50	98	17.50	1.02E-03	-43.50	2.49	5.73E-03
3788	3.2	13.0	8.33	97	8.33	2.13E-03	-13.67	1.64	7.86E-03
3797	3.2	20.0	17.00	167	17.00	1.80E-03	-34.40	2.02	8.19E-03
3811	3.0	29.0	25.71	136	25.71	9.68E-04	-48.14	1.87	4.08E-03
3815	3.6	19.0	18.75	106	18.75	1.03E-03	-48.50 -24.74	2.59 2.16	6.02E-03 1.18E-02
3819 3824	4.0 4.0	21.0 90.0	11.43 80.00	152 76	11.43 80.00	2,43E-03 1,74E-04	-24.71 -226.00	2.83	1.118-02
3830	3.0	15.2	10.67	152	10.67	2.61E-03	-16.80	1.57	9.24E-03
3832	3.8	60.0	55.00	68	55.00	2.26E-04	-149.00	2.71	1.38E-03
3833	4.4	110.0	112.50	38	112.50	6.18E-05	-385.00	3.42	4.76E-04
3634	2.8	50.0	62.50	91	62.50	2.66E-04	-125.00	2.00	1.20E-03
3835	3.4	75.0	93.75	114	93.75	2.23E-04	-243.75	2.60	1.30E-03
3839	3.1	5.8	4.60	167	4.80 23,33	6.37E-03	-9.08	1.89	2.71E-02
3852 3855	2.9 4.2	24.0 110.0	23.33 110.00	114 31	110.00	8.94E-04 5.16E-05	-43.67 -352.00	1.87 3.20	3.77E-03 3.71E-04
3856	3.8	70.0	87.50	23	87.50	4.81E-05	-262.50	3.00	3.25E-04
3857	2.4	8.0	13.30	152	13.33	2.09E-03	-24.00	1.80	8.45E-03
3860	3.0	28.0	33.33	285	33.33	1.56E-03	-72.00	2 16	7.618-03
3861	4.4	22.0	22.50	46	22.50	3.74E-04	-77.00	3 42	2.88E-03
3882	4.0	6.5	3.75	137	3.75	6.69E-03	-8.50	2.27	3.41E-02
3909 4101	3.2	10.0 28.0	7.78 17.78	9 9 325.75	7.78 17.78	2.33E-03	-14.89	1.91	1.00E-02
4101	3.8 3.6	42.0	26.67	113.63	26.67	3.35E-03 7.80E-04	√39.56 √54.00	2.23	1.68E-02
4104	3.6	70.0	77.78	530.3	77.78	1.25E-03	-210.00	2.03 2.70	3.55E-Q3 7.58E-Q3
4108	3.7	26.0	19.09	303.03	19.03	2.91E-03	-44.64	2.34	1.53E-02
4110	5.0	50.0	33.33	15.15	33.33	8.32E-05	-116.67	3.50	6.55E-04
4113	4.8	40.0	33.33	22.73	33.33	1.25E-04	-120.00	3.60	1.01E-03
4116	4.2	\$8.0	8.57	128.78	8.57	2.75E-03	-18.00	2.10	1.30E-02
4121	5.0	70.0 12.0	83.84	125.75	63.64	3.62E-04	-248.18	3.90	3.17E-03
4133 4134	4.3 4.3	36.0	16.00 32.00	150 41.63	16.00 32.00	1.72E-03 2.38E-04	-56.80	3.55	1.37E-02
4140	5.1	10.0	2.31	144.9	2.31	1.15E-02	-101.60 -1.77	3.18	1.70E-03
4144	3.4	50.0	36.36	500	36.36	2.52E-03	-73.64	0.77 2.03	1.98E-02 1.15E-02
4146	4.8	5.2	5.25	181.81	5.25	6.34E-03	-20.00	3.81	5.43E-02
4148	3.8	35.0	58.33	400	58.33	1.26E·03	-186.67	3.20	9.04E-03
4178	4.0	2.7	0.90	600	0.90	1.22E-01	-0.90	1.00	2.75E-01
4179	3.1 3.2	6. 0 10.0	6.00 7.00	58.33	6.00	1.78E-03	-12.60	2.10	8.41E-03
4180	J, ₹	10.V	7.00	200	7.00	5.23E-03	-12.40	1.77	2.08E-02

Table 1.4.1 (2/15) Analysis of existing recovery test data

and the control of th

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8/H	XI	Yı	Gradient	Q	delta	Transmissivity	intercept	t*	Storage
no -				(I/mIn)	1 8	(m2/mln)			Coefficient
4182	3.1	4.8	10.25	101.0	10.25	s one no	07.00		
4189	4.1	2.3	1.42	330.0	10.23	1.80E-03 4.26E-02	-27.03 -3.51	2.64	1.07E-02 2.38E-01
4190	4.2	32.0	32.50	50.0	32.50	2 82E-04	-104.50	3.22	2.04E-03
4198	4.2	80.0	77.78	10.0	77.78	2.35E-05	-246.67	3.17	1.68E-04
4199	3.2	24.0	15.00	356.8	15.00	4.35E-03	-24.00	1.60	1.57E-02
4201	4.6	0.5	0.20	545.5	0.20	4.99E-01	-0.44	2.20	
4206	3.6	32.0	22.50	183.3	22.50	1.49E-03	-49.00	2.18	7.31E-03
4207	5.0	30.0	22.00	24.6	22.00	2.04E-04	-80.00	3.64	1.67E-03
4214	4.1	42.0	41.11	45.6	41.11	2.03E-04	-126.56	3.08	1.40E-03
4219	3.8	4.8 8.0	1.64	389.5	1.64	4.36E-02	-1.42	0.87	8.50E-02
4220 4231	4.8 3.0	46.0	4.00	148.2 160.0	4.00	6.78E-03 6.69E-04	-11.20	2.80	4.27E-02
4233	4.7	22.0	6.25	86.0	43.75 6.25	2.58E-03	-91.25 -7.38	2.09 1.18	3.14E-03 6.84E-03
4235	4.0	1.3	0.55	14.3	0.55	4.80E-03	0.91	1.67	1.80E-02
4236	4.8	3.0	2.25	568.2	2.25	4.62E-02	-7.80	3.47	3.61E-01
4251	3.6	50.0	75.00	50.5	75.00	1.23E-04	-220.00	2.93	8.13E-04
4259	5.0	140.0	90.00	30.0	90.00	6.10E-05	-310.00	3.44	4.73E-04
4264	3.6	55.0	30.00	90.0	30.00	5.49E-04	-53.00	1.77	2.18E-03
4266	4.2	4.9	1.00	116.7	1.00	2.14E-02	0.70	-0.70	
4268	4.2	35.0	19.44	90.0	19.44	8.47E-04	-46.67	2.40	4.57E-03
4274	3.1	35.0	36.89	100.0	38.89	4.71E-04	-85.56	2.20	2.33E-03
4275	4.2	5.0	20.83	76.0	20.83	6.68E-04	-82.50	3.96	5.95E-03
4277 4278	4.8 4.2	28.0 2.8	9.00 1.20	180.0 80.0	9.00 1.20	3.66E-03 1.22E-02	-15.20	1.69	1.39E-02
4290	4.2	160.0	112.50	158.Q	112.50	2.57E-04	-2.24 -312.50	1.87 2.78	5.12E-02 1.61E-03
4293	4.2	40.0	20.00	170.0	20.00		-44.00	2.20	7.70E-03
4294	2.6	6.5	6,67	150.0	6.67	4.128-03	-10.83	1.63	1.51E-02
4388	4.4	2.1	0.80	83.0	0.80	1.90E-02	-1.42	1.78	7.58E-02
4397	3.3	0.5	0.18	1818.2	0.18	1.85E+00	-0.09	0.52	
4403	: 4.6	12.5	3.46	90.0	3.46	4.76E-03	-3.42	0.99	1.06E-02
4404	3.3	0.5	0.18	95.0	0.18	9.66E-02	-0.09	0.52	1.14E-01
4408	4.6	32.0	12.50	88.0	12.50	1.29E-03	-25.50	2.04	5.91E-03
4415	3.3	0.4	0.33	876.1	0.33	4.81E-01	-0.69	2.07	4 - 1 - 4 -
4416	3.7	18.0	32.50	428.5	32.50	2.41E-03	-102.25	3.15	1.71E-02
4417	3.7 2.9	50.0 3.3	28.57 1.50	43.9 292.4	28.57 1.50	2.81E-04 3.57E+02	-55.71 -1.05	1.95 0.70	1.23E-03 5.62E-02
4420	2.4	1.6	3.50	1894.0	3.50	9.90E-02	-6.80	1.94	4.33E-01
4438	3.2	60.0	50.00	270.0	50.00	9.88E-04	-100.00	2.00	4.45E.03
4442	3.4	10.0	9.00	15.3	9.00	3.12E-04	-20.60	2.29	1.60E-03
1445	4.4	2.6	4.33	9.1	4.33	3.84E-04	-16.47	3.80	3.28E-03
4446	4.4	7.0	5.83	110.0	5.63	3.58E-03	-17.75	3.16	2.54E.02
4450	4.6	36.0	28.33	136.4	28.33	8.81E-04	-94.33	3.33	6.60E-03
4453	4.8	2.5	3.17	101.2	3.17	5.85E-03	-12.70	4.01	5.28E-02
4456	3.6	23.0	11.25	330.0	11.25	5.37E-03	-17.50	1.56	1.88E-02
4459	3.0	7.8	2.75	460.0	2.75	3.06E-02	-0.45	0.16	1.13E-02
4466	4.8			110.0	5.29	3.81E-03 4.46E-01	-15.97 1.92	3.02 -5.32	2.59E-02
4470 4472	: 2.9	3.0 78.0	0.36 78.00	877.4 60.0	0.36 78.00	1.41E-04	-296.40	3.80	1.20E-03
4473	4.8 3.8	13.0	13.00	88.0	13.00	1.24E-03	-36.40	2.80	7.81E-03
4474	3.0		10.40	130.0	10.40	2.29E-03	-26.00	2.50	1.29E-02
4477	3.0		35.00	122.0	35.00	6 36E-04	-89.00	2.54	3.65E-03
4480	3.2	64.0	49.00	305.0	49.00	1.14E-03	-92.80	1.89	4.85E-03
4482	3.6		2.38	80.0	2.38	6.17E-03	-4.33	1.82	2.53E-02
4484	3.7		1.50	112.8	1.50	1.38E-02	-4.15	2.77	8.57E-02
	3.2	15.0		166.7	11.00	2.77E-03	-20.20	1.84	1.15E-02
4493	4.6	12.0		272.0	11.00	4.53E-03	-38.60	3.51	3.57E-02
4498	3.4		15.83	82.0		9.488-04	-26.83	1.69	3.61E-03
4507	4.2	70.0	50.00	70.0	50.00	2.56E-04	-140.00 -0.10	2.80	1.61E-03
4511	3.2		0.10	200.0	0.10 33.33	3.66E-01 1.37E-04	73.33	1.00 2.20	8.24E-01 6.79E-04
4513 4517	3.7 4.8	50.0 7.0	33.33 15.00	284.1	15.00	3.47E-03	-65.00	4.33	3.38E-02
4518	3.0	16.0	23.33		23.33	8.91E-04	-54.00	2.31	4.64E-03
4520	4.8	80.0	88.89	88.0		1.61E-04	-346.67	3.90	1.59E-03
	4.0	40.0		_ • • •					

Table 1.4.1 (3/15) Analysis of existing recovery test data

8/H no	, X1	Y1	Gradient	Q (I/mIn)	delta s r	Transmissivity (m2/min)	Intercept	(*	Storage Coefficient
			44	444.0	48.75	4.31E-04	-124.75	2.56	2.48E-03
4521 4523	4.2 3.0	60.0 0.9	48.75 1.15	114.8	1.15	1.59E-02	-2.55	2.22	7.94E-02
4525	4.0	29.0	16.00	20.0	16.00	2.29E-04	-35.00	2.19	1.13E-03
4530	3.0	1.1	0.42	153.2	0.42	6.73E-02	-0.15	0.36	5.45E-02
4532	3.6	17.0	17.50	177.6	17.50	1.86E-03	-46.00	2.63	1.10E-02
4537	2.4	0.3	0.15	500.0	0.15	6.10E-01	-0.03	0.20 2.38	2.75E-01 9.14E-03
4538	4.4	26.0	12.86	120.0	12.86	1.71E-03 2.20E-04	-30.57 -122.00	3.05	1.51E-03
4540	3.7	26.0 34.0	40.00 72.50	48.2 42.0	40.00 72.50	1.08E-04	-299.50	4.13	9.86E-04
4556 4559	. 4.6 3.2	5.0	6.25	100.0	6.25	2.93E-03	-15.00	2.40	1.58E-02
4560	4.2	40.0	40.00	129.7	40.00	5.93E-04	-128.00	3.20	4.27E-Ó3
4561	3.2	7.0	8.75	70.0	8.75	1.46E-03	-21.00	2.40	7.91E-03
4563	2.6	1.0	12.86	200.0	12.85	2.85E-03	-32.43	2.52	1.628-02
4572	4.8	85.0	68.75	947.0	68.75	2.52E-03	-245.00	3.56	2.02E-02
4579	4.0	40.0	75.00	347.0	75.00	8.47E-04	-260.00 -18.10	3.47 4.26	6.61E-03 3.01E-02
4580 4583	4.8 2.9	2.3 0.6	4.25 0.24	73.0 136.1	4.25 0.24	3.14E-03 1.04E-01	-0.15	0.61	1.42E-01
4586	5.0	12.0	11.00	50.0	11.00	8.32E-04	-43.00	3.91	7.32E-03
4597	4.0	45.0	32.14	100.0	32.14	5.69E-04	-83.57	2.60	3.33E-03
4599	4.8	5.0	15.00	289.0	15.00	3.53E-03	-67.00	4.47	3.54E-02
4600	3.6	80.0	80.00	13.8	80.00	3.15E-05	-208.00	2.60	1.85E-04
4602	3.0	3.8	4.00	118.0	4.00	5.40E-03	-8.20	2.05	2.49E-02
4604	3.4	4.5	3.75	22.3	3.75	1.09E-03	-8.25	2.20	5.39E-03
4605 4611	3.2 4.2	4.6 50.0	3.50 46.00	75.0 34.0	3.50 46.00	3.92E-03	-6.60 -143.20	1.89	1.66E-02
4614	4.4	4.5	4.00	178.0	4.00	1.35E-04 8.14E-03	-13.10	3.11 3.28	9.48E-04 6.00E-02
4617	4.4	45.2	35.20	90.9	35.20	4.73E-04	-109.68	3.12	3.31E-03
4619	4.4	19.0	16.67	50.0	16.67	5.49E-04	-54.33	3.26	4.03E-03
4621	3.2	60.0	62.50	287.0	62.50	8.40E-04	-140.00	2.24	4.24E-03
4622	3.2	19.0	25.00	206.0	25.00	1.51E-03	-61.00	2.44	8.28E-03
4623	4.8	50.0	100.00	412.0	100.00	7.54E-04	430.00	4.30	7.30E-03
4628 4635	4.0 5.0	53.0 40.0	165.00 13.08	113.7 183.3	165.00	1.26E-04	-607.00	3.68	1.04E-03
4636	3.2	60.0	107.50	530.0	13.08 107.50	2.57E-03 9.02E-04	-25.38 -284.00	1.94	1.12E-02
4638	3.2	0.8	0.39	160.0	0.39	7.53E-02	-0.44	2.64 1.14	5.36E-03 1.94E-01
4646	3.2	22.0	25.00	119.4	25.00	8.74E-04	-58.00	2.32	4.56E-03
4658	4.6	5.0	2.43	88.1	2.43	6.65E-03	-6.16	2.54	3.80E-02
4662	3.6	18.0	26.67	19.0	26.67	1.30E-04	-78.00	2.93	8.58E-04
4664 4665	4.8	26.0	15.00	208.0	15.00	2.51E-03	-46.00	3.07	1.73E-02
4666	4.8 3.2	17.0 50.0	30.00 100.00	412.0 113.6	30.00	2.51E-03	-127.00	4.23	2.39E-02
4669	3.0	4.2	1.00	214.0	100.00	2.08E-04 3.92E-02	-270.00	2.70	1.26E-03
4685	3.2	8.0	6.25	227.0	6.25	6.65E-03	1.20 -12.00	-1.20 1.92	2.476.60
4686	4.6	40.0	23.13	440.0	23.13	3.48E-03	-66.38	2.87	2.87E-02 2.25E-02
4687	5.0	60.0	27.27	112.5	27.27	7.55E-04	-76.36	2.80	4.76E-03
4689	3.6	70.0	83.33	274.0	83.33	6.02E-04	-230.00	2.76	3.74E-03
4690 4693	4.8 3.0	70.0 40.0	300.00	31.0	300.00	1.892-05	-1370.00	4.57	1.94E-04
4697	4.8	40.0	123.33 2.29	55.0 90.9	123.33	8.16E-05	-330.00	2.68	4.91E-04
4699	4.8	3.2	4.50	50.9	2.29 4.50	7.28E-03 2.03E-03	-6.57	2.88	4.71E-02
4702	3.6	30.0	28.00	106.0	28.00	6.93E-04	-18.40	4.09	1.87E-02
4714	3.5	5.0	3.18	79.0	3.18	4.54E-03	-70.80 -6.14	2.53	3.94E-03
4717	3.8	70.0	87.50	100.0	87.50	2.09E-04	-262.50	1.93 3.00	1.97E+02
4719	3.6	1.1	1.83	90.6	1.83	9.04E-03	-5.50	3.00	1.41E-03 6.11E-02
4722	3.0	10.0	9.50	307.2	9.50	5.92E-03	-18.50	1.95	2.59E-02
4728 4729	3.7 4.2	50.0	112.50	189.4	112.50	3.08E-04	-366.25	3.26	2.26E-03
4729	4.2 3.4	7.0 17.0	2.92 15.45	189.4 70.0	2.92	1.19E-02	•5.25	1.80	4.81E-02
4732	3.4	11.3	15.45 28.25	70.0 375.0	15.45 28.25	8.298-04	-35.55	2.30	4.29E-03
4734	3.0	9.0	10.00	150.0	10.00	2.43E-03 2.75E-03	-61.93	2.90	1.59E-02
4735	4.8	7.0	2.50	150.0	2.50	1.10E-02	-21.00	2.10	1.30E-02
4737	3.8	60.0	50.00	60.6	50.00	2.22E-04	-5.00 -130.00	2.00 2.60	4.94E-02
4739	4.3	26.0	20.00	151.5	20.00	1.39E-03	-60.00	3.00	1.30E-03 9.36E-03
									2.00L-03

Table 1.4.1 (4/15) Analysis of exising recovery test data

8/H No	X1	Y1	Gradient	<u> </u>	della s r	Transmisivity (m2/min)	Intercept	£ *	Storage Coefficient
4742	5.2	9.0	2.14	165		4 44- 44			. :
4747	3.2	0.3	0.27	165 170.45	2.14 0.27	1.41E-02 1.17E-01	-2.14 -0.59	1.00 2.23	3.17E-02 5.86E-01
4751	4.0	36.0	26.00	112	26.00	7.88E-04	68.00	2.62	4.64E-03
4755	5.0	100.0	42.86	112	42.86	4.78E-04	-114.29	2.67	2.87E-03
4756	4.8	50.0	18.75	90	18.75	8.79E-04	-40.00	2.13	4.22E-03
4758	4.2	50.0	30.00	160.37	30.00	9.78E-04	-76.00	2.53	5.58E-03
4760	4.2	80.0	125.00	121.74	125.00	1.78E-04	445.00	3.56	1.43E-03
4762 4763	4.2 4.2	70.0 86.0	150.00	151.51 219.92	150.00	1.85E-04	-560.00	3.73	1.55E-03
4767	3.2	3.0	1.50	170	60.00 1.50	6.71E-04 2.07E-02	-172.00 -1.80	2.87 1.20	4.33E-03 5.60E-02
4768	3.8	25.0	13.75	220	13.75	2.93E-03	-27.25	1.98	1.31E-02
4770	4.0	15.0	11.67	209.77	11.67	3.29E-03	-31.67	2.71	2.01E-02
4773	4.6	2.5	2.50	166.66	2.50	1.22E-02	9.00	3.60	9.88E-02
4775	4.3	60.0	41.67	175.97	41.67	7.73E-04	-119.17	2.86	4.97E-03
4780	3.8	17.0	16.00	227	16.00	2.60E-03	-43.80	2.74	1.60E-02
4789	4.4	26.0	16.67	5.5	16.67	6.04E-04	-47.33	2.84	3.86E-03
4791	5.0	4.5	2.25	100	2.25	8.13E-03	-6.75	3.00	5.49E-02
4792 4801	3.5 4.4	70.0 35.0	71.43 16.67	151.51 7 O	71.43 16.67	3.88E-04	-180.00	2.52	2.20E-03
4804	3.5	8.0	4.17	113	4.17	7.69E-04 4.96E-03	-38.33	2.30 1.58	3.98E-03 1.76E-02
4805	3.4	18.0	13.75	60	13.75	7.99E-04	-6.58 -28.75	2.09	3.76E-03
4808	3.6	10.5	1.75	120	1.75	1.26E-02	4.20	-2.40	3.702-03
4809	3.4	2.3	4.00	291.66	4.00	1.33E-02	-11.30	2.83	8.48E-02
4810	4.9	13.0	15.00	113.63	15.00	1.39E-03	-60.50	4.03	1.26E-02
4811	3.6	34.0	30.00	151.51	30.00	9.24E-04	-74.00	2.47	5.13E-03
4812	4.0	13.0	6.25	80	6.25	2.34E-03	-12.00	1.92	1.01E-02
4813	2.8	17.0	8.00	260.86	8.00	5.97E-03	-5.40	0.68	9.06E-03
4823	2.8	15.0	17.50	227	17.50	2.37E-03	-34.00	1.94	1.04E-02
4830	4.0	0.8	0.29	112.5	0.29	7.21E-02	-0.34	1.20	1.95E-01
4831 4835	4.0 3.4	40.0 24.0	37.50 36.67	91.66 151.53	37.50 36.67	4.47E-04 7.56E-04	-110.00 -100.67	2.93 2.75	2.95E-03
4836	2.9	5.0	3.33	151.51	3.33	8.32E-03	-4.67	1.40	4.67E-03 2.62E-02
4840	3.5	44.0	26.00	75	26.00	5.28E-04	-47.00	1.81	2.15E-03
4841	4.8	3.2	1.27	164.84	1.27	2.37E-02	-2.91	2.29	1.22E-01
4843	4.6	11.0	18.33	164.24	18.33	1.64E-03	-73.33	4.00	1.48E-02
4846	4.8	0.7	0.20	120	0.20	1.10E-01	-0.24	1.20	2 97E-01
4847	5.0	8.0	3.00	133	3.00	8.11E-03	-7.00	2.33	4.26E-02
4848	5.0	9.5	1.94	300	1.94	2.82E-02	-0.22	0.11	7.26E-03
4849	4.8	6.0	1.75 26.67	155 355	1.75 26.67	1.62E-02 2.44E-03	-2.40 -50.33	1.37 1.89	5.00E-02
4860 4861	4.6	19.0 2.3	1.19	191	1.19	2.94E-02	-30.33	2.66	1.03E-02 1.76E-01
4862	4.6	18.Q	16.00	100	16.00	1.14E-03	-55.60	3.48	8.94E-03
4863	3,2	8.0	15.00	87	15.00	1.06E-03	-40.00	2.67	6.37E-03
4865	4,2	4.0	0.50	225	0.50	8.24E-02	1.90	-3.80	
4866	4.4	110.0	83.33	90.91	83.33	2.00E-04	-256.67	3.08	1.38E-03
4867	3.9	23.0	17.27	181.8	17.27	1.93E-03		2.57	1.11E-02
4870	3.6	2.0	2.25	284.09	2.25			2,71	1.41E-01
4871	3.2	4.8	2.60	341.2	2.60	2.40E-02		1.35	7.32E-02
4878	3.8	17.0	12.00	69.7	12.00	1.06E-03		2.38	5.70E-03
4879	4.4	30.0	42.86	60 16.8	42.66 24.44	2.56E+04 1.26E+04		3.70 2.25	2.13E-03 6.38E-04
4882 4887	3.4 3.4	28.0 17.0	24.44 40.00	127	40.00	5.81E-04		2.98	3.89E-03
4888	4.0	13.0	11.43	265.15	11.43			2.86	2.73E-02
4891	4.4	45.0	45.00	101.53	45.00	4.13E-04		3.40	3.16E-03
4895	4.4	34.0	35.00		35.00	1.43E-04	and the second s	3.43	1.10E-03
4898	3.0	23.0	18.33	308	18.33	3.07E-03		1.75	1.21E-02
4901		70.0	62.50	43	62.50	1.26E-04		2.48	7.03E-04
4902			6.25	30	6.25	8,79E-04		3.08	6.09E-03
4903	4.2	11.0	6.25	60	6.25	1.76E-03		2.44	9.65E-03
4905	4.4		50.00	41.8 112.5	50.00 32.50	1.53E-04 6.34E-04		3.60 2.35	1.24E-03
4910 4913	3.4	34.0 23.0	32.50 17.50	112.5 82.79	17.50	8.66E-04		2.33	3.36E-03 4.45 E- 03
4913	3.8 4.8	1.0	0.56	148.22	0.56	4.88E-02		3.00	3.30E-01
- 77 (7	,4.0	1.9	Ų. J U						2.04#-A1

Table 1.4.1 (5/15) Analysis of existing recovery test data

B/H no	Х1	Yi	Gradient	Q {I/mIn}	delta s r	Transmissivity (m2/min)	Intercept	t*	Storage Coefficient
						- 475 04	-46.00	2.30	4.07E-03
4922	4.0	34.0	20.00	86.0	20.00	7.87E-04 2.00E-03	-41.86	1.83	8.25E-03
4923	3.1	29.0	22.86	250.0	22.86 2.29	9.37E-03	-4.54	1.99	4.19E-02
4924	3.3	3.0	2.29 25.71	117.0 287.0	25.71	2.04E-03	-55.14	2.14	9.86E-03
4925 4926	3.0 4.8	22.0 40.0	16.67	68.0	16.67	7.47E-04	-40.00	2.40	4.03E-03
4938	4.8	100.0	44.44	56.8	44.44	2.34E-04	-113.33	2.55	1.34E-03
4939	3.7	4.6	5.20	227.3	5.20	8.00E-03	-14.64	2.82	5.07E-02 6.11E-03
4941	3.2	24.0	26.25	170.5	26.25	1.19E-03	-60.00 -2.64	2.29 1.03	1.65E-03
4942	3.4	6.1	2.57	10.0	2.57	7.12E-04 4.25E-04	-16.50	2.20	2.10E-03
4947	4.2	15.0	7.50	17.4	7.50 17.50	4.45E-04	-71.00	4.06	4.07E-03
4949	4.4	6.0 12.0	17.50 10.00	42.6 75.0	10.00	1.37E-03	-23.00	2.30	7.10E-03
4962 4963	3.5 3.6	35.0	37.50	227.3	37.50	1.11E-03	-100.00	2.67	6.66E-03
4965	3.1	6.0	8.57	223.6	8.57	4.77E-03	-20.57	2.40	2.58E-02
4978	3.0	12.0	8.75	40.0	8.75	8.37E-04	-14.25	1.63	3.07E-03
4979	2.5	0.7	0.33	450.0	0.33	2.50E-01	-0.08	0.24 3.00	1.34E-01 2.22E-03
4980	4.2	60. 0	50.00	90.0	50.00	3.29E-04	-150.00 -4.89	1.56	2.21E-02
4981	3.8	7.0	3.13	112.5	3.13 35.00	6.59E-03 2.09E-04	-87.00	2.49	1.17E-03
4985	3.4 2.0	32.0 0.4	35.00 0.65	40.0 681.8	0.65	1.92E-01	-0.92	1.42	6.11E-01
4989 4992	4.8	1.2	2.00	98.2	2.00	8.988-03	-8.40	4.20	8.49E-02
4997	4.5	15.0	9.33	250.0	9.33	4.90E-03	-27.00	2.89	3.19E-02
4998	2.9	9.0	5.71	114.8	5.71	3 688 03	7.57	1.33	1.10E-02
4999	4.1	90.0	72.73	108.3	72.73	2.728-04	-208.18	2.86	1.75E-03
5002	9.1	4.8	9.00	152.0	9.00	3.09E-03	-23.10	2.57	1.79E-02
5006	3.4	90.0	75.00	220.0	75.00	5.37E-04 1.65E-03	-165.00 -32.50	2.20 2.60	2.66E-03 9.64E-03
5009	3.8 4.7	15.0 18.0	12.50 13.85	112.5 113.7	12.50 13.85	1.50E-03	-47.08	3.40	1.15E-02
5013 5014	40.0	50.0	35.00	40.0	35.00	2.09E-04	-1350.00	38.57	1.82E-02
5015	3.0	17.5	16.88	400.0	16.88	4.34E-03	-33.13	1.96	1.92E-02
5017	3.6	40.0	43.75	84.0	43.75	3.51E-04	-117.50	2.69	2.12E-03
5019	4.8	70.0	50.00	71.0	50.00	2 608-04	170.00	3.40	1.99E-03
5026	3.0	40.0	58.33	325.0	58.33	1.02E-03	-135.00	2.31	5.31E-03
5027 5028	3.0 3.1	17.0 18.0	8.00 20.00	217.4 59.1	8.00 20.00	4.97E-03 5.40E-04	-7.00 -44.00	0.88 2.20	9.79E-03 2.67E-03
5029	3.9	40.0	20.59	50.0	20.59	4.448-04	-40.29	1.96	1.96E-03
5031	3.5	22.0	17.78	129.0	17.78	1.33E-03	-40.22	2.26	6.76E-03
5041	3.2	28.0	27.50	200.0	27.50	1.338-03	-60.00	2.18	6.53E-03
5042	3.9	17.0	12.14	13.8	12.14	2.08E-04	-30.36	2.50	1.17E-03
5043	4.2	50.0	32.14	23.3	32.14	1.33E-04	-85.00	2.64	7.89E-04
5047	4.4	18.0	45.00	101.5	45.00	4.13E-04	-180.00	4.00	3.72E-03
5050 5100	3.2 4.2	14.0 28.0	11.25 23.33	150.0 23.3	11.25 23.33	2 44E-03 1.83E-04	-22.00 -70.00	1.96	1.07E-02
5101	3.8	32.0	22.86	36.7	22.86	2.948-04	-54.86	3.00 2.40	1.24E-03 1.59E-03
5104	4.4	45.0	38.14	18.3	38.14	8.80E-05	-122.03	9.20	
5114	3.4	17.0	20.00	111.1	20.00	1.02E-03	-51.00	2.55	5.83E-03
5118	3.1	3.2	3.37	188.4	3.37	1.02E-02	-7.26	2.15	4.95E-02
5142	4.2	29.0	29.23	33.0	29.23	2.07E-04	-92.31	3.16	1.47E-03
5143 5144	2.2	2.5	5.65	300.0	5.65	9.728-03	-9.93	1.76	3.84E-02
5161	3.6 4.0	22.0 50.0	20.00 50.00	84.0 150.0	20.00 50.00	7.69E-04	-50.00	2.50	4.32E-03
5166	3.6	18.0	10.45	100.0	10.45	5.49E-04 1.75E-03	-150.00	3.00	3.71E-03
5167	3.4	24.0	17.50	15.0	17.50	7.84E-04	-19.61 -35.50	1.88 2.03	7.40E-03 3.58E-03
5168	3.8	11.0	6.43	45.0	6.43	1.28E-03	-13.43	2.09	6.02E-03
5171	4.0	60.0	40.00	150.0	40.00	6.86E-04	-100.00		3.86E-03
5174	4.0	2.6	1.11	111.0	1.11	1.83E-02	-1.84	1.66	6.83E-02
5203 5204	3.8 4.2	23.0 22.0	20.00 27.50	36.4 60.0	20.00	3.33E-04	-53.00	2.65	1.98E-03
5205	3.8	1.6	1.03	150.0	27.50 1.03	3.99E-04 2.67E-02	-93.50	3.40	
5206	4.2	0.3	0.21	277.8	0.21	2.42E-01	-2.28	2.22	1.33E-01
5209	3.0	20.0	11.82	272.0	11.82	4.21E-03	-0.55 -15.45	2.63 1.31	4 045 46
5217	4.6	7.0	5.83	60.6	5.83	1.90E-03		3.40	1.24E-02 1.45E-02
5221	4.0	1.4	1.17	42.0	1.17	6.60E-03	-3.27	2.80	4.16E-02

Table 1.4.1 (6/15) Analysis of existing recovery test data

8/K	Хı	¥1	Gradient	Q.	delte	Transmissivity	Intercept	t*	Storage
U O				(Umin)	3 6	(m2/mln)			Coefficient
5222	4.5	30.0	27.27	26.5	27.27	4 705 04	40.46		4.005.00
5224	3.6	3:5	7.00	34.1	7.00	1.78E-04 8.91E-04	-92.73	3.40	1.36E-03
5225	40.0	5.0	7.14	11.4	7.14	2.91E-04	-21.35 -260.71	3.05 39.30	6.12E-03 2.57E-02
5226	3.8	45.0	56.25	6.1	56.25	1.97E-05	-168.75	3.00	1.33E-04
5227	4.0	20.0	10.67	11.0	10.67	1.88E-04	-22.67	2.13	9.01E-04
5230	4.3	24.0	25.67	12.1	26.67	8.32E-05	90.67	3.40	6.36E-04
5232	3.6	20.0	5.82	169.0	5.82	5.32E-03	.0.95	0.16	1.94E-03
5234	3.0	1.0	0.88	166.7	0.88	3.49E-02	-1.63	1.86	1.46E-01
5235	3.7	10.0	6.90	22.7	6.90	6.03E-04	-15.52	2.25	3.05E-03
5237	3.3	4.0	5.00	37.9	5.00	1.39E-03	-12.50	2.50	7.80E-03
5241	5.0	18.0	6.25	48.3	6.25	1.42E-03	-13.25	2.12	6.75E-03
5243	3.8	70.0	70.00	62.5	70.00	1.63E-04	-196.00	2.80	1.03E-03
5255	4.2	60.0	80.00	50.Ó	80.00	1.14E-04	-256.00	3.20	8.24E-04
5257	3.4	12.0	9.52	143.3	9.52	2.75E-03	-20.38	2.14	1.33E-02
5263	4.4	14.0	5.71	535.7	5.71	1.72E-02	-11.14	1.95	7.53E-02
5264	4.4	8.0	4.00	416.7	4.00	1.91E-02	-9.60	2.40	1.03E-01
5265	4.5	4.5	1.94	125.0	1.94	1.18E-02	-4.25	2.19	5.79E-02
5272	4.6	120.0	50.00	66.0	50.00	2.42E-04	-110.00	2.20	1.20E-03
5276 5324	4.8	9.0	4.38	125.7	4.38	5.26E-03	-12.00	2.74	3.25E-02
5325	4.4 3.6	7.0 16.0	6.00	262.2	6.00	8.00E-03	-19.40	3.23	5.82E-02
5326	5.0	40.0	12.50 35.00	232.0	12.50	3.40E-03	-29.00	2.32	1.77E-02
5342	3.6	30.0	31.25	160.0 77.7	35.00 31.25	8.37E-04	-135.00	3.86	7.26E-03
5343	4.0	2.8	1.50	155.3	1.50	4.55E-04 1.89E-02	-82.50 -3.20	2.64 2.13	2.70E-03 9.10E-02
5344	4.6	40.0	29.17	80.0	29.17	5.02E-04	-94.17	3.23	3.65E-03
5348	4.0	2.6	1.67	114.8	1.67	1.26E-02	-4.07	2.44	6.92E-02
5349	4.6	1.3	0.35	109.1	0.35	5.71E-02	-0.31	0.89	1.14E-01
5351	4.8	55.0	21.43	63.0	21.43	5.38E-04	-47.86	2.23	2.70E-03
5352	3.6	30.0	31.25	126.7	31.25	7.42E-04	-82.50	2.64	4.41E-03
5353	3.2	15.0	15.71	52.0	15.71	6.06E-04	-35.29	2.25	3.06E-03
5355	4.2	2.6	24.00	13.0	24.00	9.91E-05	-98.20	4.09	9.13E-04
5357	3.1	7.0	7.50	41.2	7.50	1.01E-03	-16.25	2.17	4.90E-03
5365	4.2	12.0	5.00	120.0	5.00	4.39E-03	-9.00	1.80	1.78E-02
5366	3.3	0.1	0.29	48.0	0.29	3.06E-02	-0.84	2.93	2.02E-01
5367	4.0	2.9	1.50	125.0	1.50	1.53E-02	-3.10	2.07	7.09E-02
5368	5.0	56.0	36.00	41.0	36.00	2.08E-04	-124.00	3.44	1.62E-03
5369	5.0	3.9	0.94	174.0	0.94	3.37E-02	-0.82	0.87	6.61E-02
5373	3.9	1.9	1.43	55.0	1.43	7.05E-03	-3.67	2.57	4.07E-02
5375	4.6	6.0	4.17	115.4	4.17 16.67	5.07E-03	13.17	3.16	3.60E-02
5396	3.8	16.0	16.67	113.0		1.24E-03	-47.33 -176.67	2.84	7.93E-03
5397 5398	4.0 4.8	90.0 2.2	66.67 1.11	146.0 122.3	66.67 1.11	4.01E-04 2.01E-02	-3.13	2.65 2.82	2.39E-03 1.28E-01
5399	3.2	10.0	7.50	218.2	7.50	5.32E-03	-14.00	1.87	2.24E-02
5403	4.2	2.6	2.89	47.7	2.89	3.02E-03	-9.53	3.30	2.24E-02
5406	4.8	54.0	90.00	80.0	90.00	1.63E-04	-378.00	4.20	1.54E-03
5408	3.2	20.0	17.00	153.3	17.00	1.65E-03	-34.40	2.02	7.52E-03
5410	4.6	15.0	18.75	14.0	18.75	1.37E-04	-71.25	3.80	1.17E-03
5411	3.4	54.0	30.00	107.2	30.00	6.54E-04	-48.00	1.60	2.35E-03
5463	3.4	3.4	3.33	21.8	3.33	1.20E-03	-7.93	2.38	6.42E-03
5465	4.4	16.0	12.50	28.6	12.50	4.18E-04	-39.00	3.12	2.94E-03
5468	3.6	14.0	9.17	300.0	9.17	5.99E-03	-19.00	2.07	2.79E-02
5467	4.0	11.0	7.00	171.4	7.00	4.48E-03	-17.00	2.43	2.45E-02
5468	4.3	10.0	14.49	493.8	14.49	6.24E-03	-52.17	3.60	5.05E-02
5469	5.1	2.8	1.14	35.3	1.14	5.65E-03	-3.03	2.65	3.37E-02
5470		1.9	0.63	32.4	0.63	9.50E-03	-0.98	1.56	3.33E-02
5471	4.4	2.4	0.89	34.8	0.89	7.17E-03	-1.51	1.70	2.74E-02
5472	4.0	16.0	13.33	16.3	13.33	2.24E-04	-37.33	2.80	1.41E-03
5473	4.4	11.6	5.79		5.79	2.99E-04	-13.86	2.40	1.61E-03
5474	4.0	16.0	10.77	100.0	10.77	1.70E-03	-27.08	2.51	9.61E-03
5475	3.8	16.0	13.64	8.3	13.64	1.11E-04 6.86E-02	-35.82 -0.08	2.63 0.88	6.57E-04
5476	4.6	0.4	0.09	35.3 12.4	6.87	3.30E-04	22.60	3.29	1.36E-01 2.44E-03
5479	4.6	9.0	6.87 18.64	3.3	18.64	3.21E-05	-60.03	3.29	2.44E-03 2.33E-04
5480	4.4	22.0	10.04	3.3	10.04	0.21E-09	00.00	U. 6 E	2.000-04

Table 1.4.1 (7/15) Analysis of existing recovery test data

B/H no	X1	YI	Gradient	o (Umin)	della 8 I	fransmissivity (m2/min)	Intercept	1.	Storage Coefficient
5482	3.8	3.2	1.60	31.6	1.60	3.61E-03	-2.88	1.80	1.46E-02
5483	3.8	20.0	17.00	21.1	17.00	2.27E-04	-44.60	2.62	1.34E-03
5484	4.6	17.0	9.44	17.9	9.44	3.47E-04	-26.44	2.80	2.19E-03
5485	4.0	21.0	19.00	20.3	19.00	1.96E-04	-55.00	2.89	1.28E-03
5492	4.8	60.0	57.14	69.5	57.14	2.23E-04	-194.29	3.40	1.70E-03
5496	3.4	17.5	8.75	150.0	8.75	3.14E-03	-12.25	1.40	9.88E-03
5499	4.1	60.0	75.00	42.0	75.00	3.02E-04	-247.50	3.30	7.61E-04
5501	4.2	1.6	0.80	75.0	0.80	1.728-02	-1.76	2.20	8.49E-02
5507 5509	3.7 3.3	0.4 2.2	0.75 3.40	27.5 20.0	0.75 3.40	6.71E-03 1.08E-03	-2.38 -9.02	3.17 2.65	4.78E-0 <u>2</u> 6.43E-03
5510	3.3	7.5	9.00	55.0	9.00	1.12E-03	-22.20	2.47	6.21E-03
5511	3.7	6.0	8.96	20.0	8.96	4.09E-04	-26.87	3.00	2.76E-03
5512	3.5	3.6	5.00	55.0	5.00	2.01E-03	-13.90	2.78	1.26E-02
5517	4.0	3.6	13.33	136.0	13.33	1.87E-03	-49.73	3.73	1.57E-02
5518	2.5	7.0	7.50	134.0	7.50	3.27E-03	-12.50	1.67	1.23E-02
5519	3.0	14.0	25.00	100.0	25.00	7.32E-04	-61.00	2.44	4.02E-03
5543	3.6	8.3	10.50	61.5	10.50	1.07E-03	-29.50	2.81	6.78E-03
5545	3.8	22.0	36.67	88.9	38.67	4.44E-D4	-117.33	3.20	3.19E-03
5546	3.6	2.0	5.33	80.0	5,33	2.75E-03	-17.20	3.23	1.99E-02
5552	3.0	3.4	1.80	220.0	1.80	2-24E-02	-2.00	1.11	5.59E-02
5557 5560	2.9	2.9	4.27	32.0	4.27	1.37E-03	9.47	2.22	6.86E-03
5561	3.0 4.0	6.0 5.0	8.33 10.00	131.6	8.33	2.89E-03	-19.00	2.28	1.48E-02
5562	3.7	8.0	3.53	440.0 250.0	10.00 3.53	8.05E-03	-35.00	3.50	6.34E-02
5567	4.6	140.0	140.00	17.0	140.00	1.30E-02 2.22E-05	5.06	1.43	4.18E-02
5644	3.6	36.0	68.00	6.0	68.00	1.616.05	-504.00 -208.80	3.60	1.80E-04
5655	3.4	19.0	31.20	20.0	31.20	1.17E-04	-87.08	3.07 2.79	1.126.04
5657	3.8	5.0	4.44	198.0	4.44	8-15E-03	-11.89	2.68	7.37E-04 4.91E-02
5660	4.5	\$2.0	15.00	13.3	15.00	1.63E-04	49.50	3.30	1.21E-03
5661	3.4	15.0	23.33	44.0	23.33	3.45E-04	-64.33	2.76	2.14E-03
5662	4.8	30.0	26.00	3.3	26.00	2.34E-05	-94.80	3.65	1.92E-04
5665	4.0	38.0	51.43	3.7	51.43	1.31E-05	-169.71	3.30	9.70E-05
566 6	4.8	15.0	10.71	21.7	10.71	3.70E-04	-36.43	3.40	2.83E-03
5667 5669	3.3 3.0	25.0	41.67	73.3	41.67	3.22E-04	-112.50	2.70	1.96E-03
5670	4.6	7.0 90.0	8.33 70.00	290.0	8.33	6.37E-03	-18.00	2.16	3.10E-02
5676	4.0	2.6	1.25	75.0 338.0	70.00	1.96E-04	-232.00	3.31	1.46E-03
5680	3.8	14.0	10.83	67.0	1.25 10.83	4.95E-02	-2.40	1.92	2.14E-01
5581	3.6	3.4	2.50	32.4	2.50	1.13E-03 2.37E-03	-27.17	2.51	6.39E-03
5684	4.6	0.3	0.08	32.4	0.08	7.12E-02	5 60	2 24	1.20E-02
5685	3.8	2.7	1.75	30.0	1.75	3.148-03	+0.07 +3.95	0.88	1.416-01
5686	4.0	5.2	1.60	32.4	1.60	3.71E-03	-1.20	2.26 0.75	1.59E-02
5687	3.6	5.8	3.75	32.4	3.75	1.588-03	7.70	2.05	6.26E-03
5689	4.2	12.6	10.60	7.7	10.60	1.34E-04	-31.92	3.01	7-31E-03 9-06E-04
5690 5691	4.5	2.0	0.45	26.7	0.45	1.07E-02	-0.05	0.10	2.42E-03
5692	3.6 5.0	3.6	1.88	46.2	1.88	4.50E-03	-3.15	1.68	1.70E-02
5694	4.0	0.9 1.9	0.10	32.4	0.10	5.94E-02	0.40	4.00	1.100-02
5696	3.9	6.2	0.23	27.2	0.23	2.21E-02	0.98	-4.36	
5697	4.6	1.7	2.33 0.19	27.9 31.6	2.33	2.19E-03	-2.90	1.24	6.12E-03
5698	3.5	4.8	3.50	30.3	0.19 3.50	3.09E-02	0.84	-4.47	
5699	4.0	15.0	9.42	25.9	9.42	1.59E-03	-7.45	2.13	7.59E-03
5700	4.6	2.0	0.89	32.8	0.89	5.03E-04	·22.67	2.41	2.73E-03
5703	3.7	1.4	0.60	34.5	0.60	6.72E-03	-2-17	2.42	3.66E-02
5704	4.6	0.3	0.12	26.8	0.12	1.05E-02 3.98E-02	-0.62	1.37	3.24E-02
5705	3.8	0.4	0.30	26.6	0.30	1.62E-02	-0.23	1.84	1.65E-01
5706	4.7	8.0	4.86	27.5	4.86	1.04E-03	-0.70	2.33	8.52E-02
5707	3.8	8.0	7.10	21.0	7.10	5.42E-04	14.83	3.05	7.13E-03
5708	4.2	2.6	1.23	27.9	1.23	4.15E-03	-18.98 -2.57	2.67	3.26E-03
5710 5711	3.7	7.0	6.00	28.1	6.00	8.56E-04	15.20	2.09	1.95E-02
5711 5712	3.5	7.5	2.86	23.8	2.86	1.52E.Q3	-2.50	2.53 0.88	4.88E-03
2712 5713	4.8 3.9	1.6	0.46	31.5	0.46	1.25E-02	-0.59	1.28	3.00E.03
	4.¥	9.0	6.36	24.7	6.36	7.11E-04	-15.82	2.49	3,61E-02 3,97E-03
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Table 1.4.1 (8/15) Analysis of existing recovery test data

and the company of the company of the party of the party of the party of the party of the first of the contract of

The control of the	B/H	X1	¥1	Gradient	Q	delta	Transmissivity	Intercept	t*	Storage
5716 4.3 1.1 0.46 130.5 0.46 5.18E-02 -0.88 1.92 2.22E-03 5717 4.6 1.7 0.44 33.7 0.44 1.39E-02 -0.34 0.78 2.42E-02 5718 4.2 1.7 0.63 3.0 0.58 3.22E-03 0.93 1.88 2.42E-02 5719 5.6 1.4 0.58 3.0 0.58 9.41E-03 -1.87 3.20 6.78E-02 5721 3.4 7.0 5.83 2.5.0 5.83 7.84E-04 -12.83 2.20 3.88E-03 5724 3.4 0.9 8.33 2.6.5 8.33 7.84E-04 -12.83 2.20 3.88E-03 5724 3.4 9.0 8.33 2.6.5 8.33 5.82E-04 -19.33 2.32 3.04E-03 5726 3.2 7.7 1.73E-02 -0.41 1.55 6.03 3.5E-04 -14.00 1.93 3.22 3.04E-03 3.04E-03 <td>no</td> <td></td> <td></td> <td></td> <td>(I/mIn)</td> <td>81</td> <td>(ws/w/u)</td> <td></td> <td></td> <td>Coefficient</td>	no				(I/mIn)	81	(ws/w/u)			Coefficient
5716 3.7 9.3 10.33 18.5 10.33 3.27.0.44 3.37.0.0.44 3.37.0.0.44 0.78 2.42.6.02 5.718 4.2 1.77.0.63 28.1 0.63 8.227.03 0.93 1.48 2.74E-02 5.726 3.72 0.44 0.38 3.00 0.58 8.22F-03 0.93 1.48 2.74E-02 5.726 3.2 1.1 0.67 14.3 0.67 3.92E-03 1.187 3.20 5.83 2.20 3.88 1.4 0.38 3.0 0.58 3.21 1.067 14.3 0.67 3.92E-03 1.103 1.55 1.37E-02 5.726 3.8 1.4 0.38 3.0 0.38 1.46E-02 -0.08 0.20 6.59E-03 5.726 3.6 8.33 3.6 5.8 3.3 5.82E-04 1.93 3.23 3.28 3.0 9.38 6.5 8.33 5.8 2.0 9.7 1.72 0.22 0.24 1.1 9.8 9.30 9.30 1.6 5.63 <td>5714</td> <td></td> <td></td> <td></td> <td>28.5</td> <td></td> <td>3.30E-03</td> <td></td> <td>1.85</td> <td>1.37E-02</td>	5714				28.5		3.30E-03		1.85	1.37E-02
\$718										
5718 4.2 1.7 0.63 28.1 0.63 8.22E-09 -0.93 1.48 2.74E-02 5720 3.2 1.1 0.67 14.3 0.67 3.92E-03 -1.03 1.55 1.37E-02 5722 3.4 7.0 5.83 25.5 5.83 7.81E-04 -1.28 2.20 3.8E-03 5722 3.4 9.0 8.33 2.65 8.33 5.82E-04 -1.33 2.02 6.59E-03 5725 3.4 9.0 8.33 2.65 8.33 5.82E-04 +1.93 2.02 6.56E-03 5726 3.6 7.35 5.63 2.16 5.63 7.04E-04 +1.00 2.04E-03 5731 3.7 1.8 1.00 18.7 1.00 3.42E-03 -1.90 1.90 1.46E-02 5733 3.8 1.20 7.00 2.8 7.00 3.35E-04 +1.60 2.99 4.18E-02 5733 3.8 2.0 7.00										
5719 5.6 1.4 0.58 30.0 0.58 9.41E-03 -1.87 32.0 6.78E-02 5721 3.2 1.1 0.67 1.4 0.67 3.92E-03 -1.03 1.55 2.20 3.87E-02 3.77E-02 3.92E-03 -1.08 0.20 3.87E-03 3.98E-03 5.83 7.84E-04 -12.83 2.20 3.88E-03 3.98E-03 5.83 7.84E-04 -12.83 2.20 3.88E-03 3.98E-03										
5720 3.2 1.1 0.67 14.3 0.67 3.92E-0.3 -1.03 1.55 1.37E-02 5722 3.8 1.4 0.38 30.0 0.38 1.46E-02 -0.08 2.02 6.59E-03 5724 3.4 0.8 0.27 25.2 0.27 1.73E-02 -0.41 1.55 6.04E-02 5726 3.6 0.23 25.2 0.27 1.73E-02 -0.41 1.55 6.04E-02 5731 3.7 1.8 1.00 18.7 1.00 3.42E-03 -1.90 1.90 1.46E-02 5733 3.8 0.9 0.30 31.5 0.30 1.92E-02 -0.28 1.90 1.37E-02 5735 3.8 1.0 7.00 3.35E-04 -14.60 2.09 7.4 1.8E-02 5733 3. 1.0 6.0 4.4 13.0 4.3 1.37E-03 5734 4.0 6.0 4.44 13.0 4.3 1.90E-02										
5721 3.4 7.0 5.83 25.0 5.83 7.94E-04 -12.83 2.20 3.88E-03 5724 3.4 9.0 6.33 26.5 8.33 5.82E-04 -19.33 2.32 3.04E-03 5725 3.6 7.3 5.63 21.6 5.63 7.04E-04 -19.33 2.32 3.04E-03 5726 3.6 7.3 5.63 21.6 5.63 7.04E-04 -13.00 2.31 3.66E-03 5732 4.5 0.6 0.20 28.7 0.20 2.63E-02 -0.28 1.40 8.26E-03 5733 3.8 12.0 7.00 12.8 7.00 3.35E-04 -14.60 2.09 1.41E-02 5733 3.8 12.0 7.00 12.8 7.00 3.35E-04 -14.60 2.09 1.57F-03 5734 4.0 6.0 4.44 13.0 4.44 5.35E-04 -11.6 6.0 1.57F-03 5739 4.2 3.3 </td <td></td>										
5722 3.8 1.4 0.38 30.0 0.38 1.46E-02 -0.08 0.20 6.59E-03 5725 4.4 0.8 0.27 25.2 0.27 1.73E-02 -0.41 1.55 6.04E-02 5726 3.6 7.3 5.63 21.6 5.63 7.04E-04 +13.00 2.1 3.6E-03 5731 3.7 1.8 1.00 18.7 1.00 3.42E-03 -1.90 1.90 1.46E-02 5732 4.5 0.6 0.20 28.7 7.00 3.5E-02 -0.28 1.90 1.3EE-02 5733 3.8 0.9 0.30 3.1.5 0.30 1.52E-02 -0.29 0.97 4.18E-02 5733 3.8 2.0 7.00 1.28 7.00 3.3SE-03 0.41 0.66 5733 4.2 3.3 1.29 27.6 1.29 3.9BE-03 -0.1 1.50 5.72E-02 5741 4.6 1.6 0.0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
5724 3.4 9.0 8.33 26.5 8.33 5.82E-04 -19.33 2.32 3.04E-03 5726 3.6 7.3 5.63 21.6 5.63 7.04E-04 +13.00 2.31 3.66E-03 5731 3.7 1.8 1.00 1.87 1.00 3.42E-03 -1.90 1.90 1.40 1.46E-02 5732 4.5 0.6 0.20 28.7 0.20 2.68E-02 -0.28 1.40 8.24E-02 5735 3.8 12.0 7.00 12.8 7.00 3.35E-04 -14.60 2.09 9.7 4.18E-02 5736 3.5 2.6 0.63 3.50E-04 -14.60 2.09 1.57F-03 5739 4.2 3.3 1.29 27.6 1.29 3.93E-03 -2.10 1.46 2.09 1.57F-03 5739 4.2 3.3 1.29 27.6 1.29 3.93E-03 -2.10 1.63 1.44E-02 5743 4.6 <td></td>										
5725 4.4 0.8 0.27 25.2 0.27 1.73E-02 -0.41 1.55 6.04E-02 5726 3.6 7.3 5.63 201.6 5.63 7.04E-04 +13.00 2.31 3.66E-03 5732 4.5 0.6 0.20 2.87 0.20 2.6E-02 -0.26 1.40 8.26E-02 5733 3.8 0.9 0.30 31.5 0.30 1.92E-02 -0.29 0.97 4.18E-02 5735 3.8 2.6 0.63 15.0 0.63 1.9E-03 0.41 0.66 5737 3.7 2.7 3.7 3.7 3.7 4.0 6.0 4.44 13.0 4.44 5.3E-04 -11.78 2.65 3.19E-03 5740 4.8 1.1 0.33 3.09 0.33 1.69E-02 -0.50 1.50 5.72E-02 5741 3.4 1.1 0.72 2.0 3.0 3.1 1.60E-02 2.59 8.30 <t< td=""><td>the state of the s</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	the state of the s									
57311 3.7 1.8 1.00 18.7 1.00 3.42E-03 -1.90 1.90 1.40 1.46E-02 5733 3.8 0.9 0.30 31.5 0.30 1.92E-02 -0.28 1.40 8.26E-02 5735 3.8 12.0 7.00 31.50 0.63 1.57E-03 3.5E-04 -14.60 2.09 9.7 4.18E-02 5735 3.5 2.6 0.63 15.0 0.63 4.39E-03 0.41 -0.66 3.75F-03 3.27 -11.78 2.65 3.19E-03 -11.78 2.65 3.19E-03 -1.10 1.66 1.44 1.00 0.00 1.26 0.70 3.93E-03 -2.10 1.63 1.44E-02 5.742 3.3 1.29 2.26 1.29 3.93E-03 -2.08 2.97 2.21E-02 5.744 4.1 1.0 0.70 12.66 0.70 3.30E-03 -2.08 2.97 2.21E-02 5.744 4.1 1.7 0.57 3.66 1.8 0.20 2.25 3.00		4.4								
5732 4.5 0.6 0.20 28.7 0.20 2.63E-02 -0.28 1.40 8.28E-02 5735 3.8 12.0 7.00 12.8 7.00 3.35E-04 -14.60 2.09 1.57E-03 5736 3.5 2.6 0.63 1.50 0.63 4.38E-03 0.41 -0.66 5737 3.5 2.6 0.63 1.50 0.63 4.38E-03 0.41 -0.66 5733 3.5 2.6 0.60 4.44 13.0 4.44 1.50 0.60 4.44 13.0 4.44 1.50 0.63 1.38E-03 -11.18 2.65 3.19E-03 5740 4.8 1.1 0.0 1.63 1.44E-02 5742 4.1 1.0 0.70 12.6 0.70 3.30E-03 -2.10 1.63 1.44E-02 5742 3.7 3.8 0.31 3.07 0.31 1.60E-02 -2.59 -8.30 5742 3.7 3.8 0.7 0.32 1.56E-02 0.61 1.13 2.48E-02	5726	3.6	7.3	5.63	21.6	5.63	7.04E-04	413.00	2.31	3.66E-Q3
5733 3.8 0.9 0.30 31.5 0.30 1.92E-02 -0.29 0.97 4.18E-02 5735 3.5 2.6 0.63 15.0 0.63 4.39E-03 0.41 -0.66 5737 3.5 2.6 0.63 15.0 0.63 4.39E-03 0.41 -0.66 5738 4.0 8.0 4.44 13.0 4.44 5.38E-04 -11.78 2.65 3.19E-03 5740 4.8 1.1 0.33 3.09 0.33 1.69E-02 -0.50 1.50 5.72E-02 5741 4.4 1.0 0.70 12.6 0.70 3.30E-03 -2.08 2.97 2.21E-02 5743 4.6 1.8 0.20 22.3 0.20 2.54E-02 0.81 -3.96 5744 4.1 1.7 0.93 0.50 7.88E-03 -0.50 1.55 2.35E-02 5743 3.6 0.8 5.56 29.7 5.56 9.78E-03 <t< td=""><td>5731</td><td>3.7</td><td>1.8</td><td>1.00</td><td>18.7</td><td></td><td>3.42E-03</td><td>-1.90</td><td>1.90</td><td></td></t<>	5731	3.7	1.8	1.00	18.7		3.42E-03	-1.90	1.90	
5735 3.8 12.0 7.00 12.8 7.00 3.35E-04 -14.60 2.09 1.57E-03 5736 3.5 2.6 0.63 15.0 0.63 4.38E-03 0.41 -0.66 5737 4.0 6.0 4.44 13.0 4.44 5.35E-04 -11.78 2.65 3.19E-03 5740 4.8 1.1 0.33 30.9 0.33 1.69E-02 -0.50 1.50 5.72E-02 5741 4.4 1.0 0.70 12.6 0.70 3.00E-03 -2.08 2.97 2.21E-02 5742 3.7 3.6 0.31 30.7 0.31 1.60E-02 2.59 8.30 5744 4.1 1.7 0.57 30.5 0.57 9.78E-03 -0.64 1.13 2.48E-02 5745 3.8 0.7 0.32 11.80 0.92 1.55 2.55 1.44E-01 5747 3.6 6.0 5.66 29.7 5.56 9	5732									and the second s
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5850 3.8 4.0 3.75 100.0 3.75 4.88E-03 -10.25 2.73 3.00E-02 5851 4.1 9.0 12.00 26.7 12.00 4.07E-04 -40.20 3.35 3.07E-03 5853 4.4 11.0 8.33 13.3 8.33 2.93E-04 -25.67 3.08 2.03E-03 5855 3.7 24.0 18.00 20.0 18.00 2.03E-04 -42.60 2.37 1.08E-03 5857 4.2 9.0 10.68 25.0 10.88 4.21E-04 -36.68 3.37 3.19E-03 5859 2.7 4.0 6.50 100.0 6.50 2.82E-03 -13.55 2.08 1.32E-02 5861 4.5 13.0 6.43 13.3 6.43 3.80E-04 -15.93 2.48 2.12E-03 5863 4.2 8.0 6.67 20.3 6.67 5.58E-04 -20.00 3.00 3.77E-03 5865 2.7										
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5863 4.2 8.0 6.67 20.3 6.67 5.58E-04 -20.00 3.00 3.77E-03 5864 2.6 3.1 4.67 40.0 4.67 1.57E-03 -9.03 1.94 6.83E-03 5865 2.7 1.3 0.30 40.0 0.30 2.41E-02 0.51 -1.68 5866 4.2 7.0 3.57 69.0 3.57 3.54E-03 -8.00 2.24 1.78E-02 5867 2.9 14.0 25.00 60.0 25.00 4.39E-04 -58.50 2.34 2.31E-03 5868 2.9 2.5 4.50 34.3 4.50 1.39E-03 -10.55 2.34 7.35E-03 5869 4.8 2.1 0.33 30.0 0.33 1.65E-02 0.50 -1.50 5871 3.0 3.4 3.05 120.0 3.05 7.20E-03 -5.75 1.89 3.05E-02 5872 3.0 0.5 0.18 200.0 0.18 2.09E-01 -0.04 0.20 9.41E-02 5873 3						8.43	3.80E-04	15.93	2.48	2.12E-03
5865 2.7 1.3 0.30 40.0 0.30 2.41E-02 0.51 -1.68 5866 4.2 7.0 3.57 69.0 3.57 3.54E-03 -8.00 2.24 1.78E-02 5867 2.9 14.0 25.00 60.0 25.00 4.39E-04 -58.50 2.34 2.31E-03 5868 2.9 2.5 4.50 34.3 4.50 1.39E-03 -10.55 2.34 7.35E-03 5869 4.8 2.1 0.33 30.0 0.33 1.65E-02 0.50 -1.50 5871 3.0 3.4 3.05 120.0 3.05 7.20E-03 -5.75 1.89 3.05E-02 5872 3.0 0.5 0.18 200.0 0.18 2.09E-01 -0.04 0.20 9.41E-02 5873 3.7 1.8 0.57 40.0 0.57 1.28E-02 -0.36 0.64 1.84E-02 5902 3.8 6.4 2.14 6.2				6.67	20.3	6.67	5.58E-04			
5866 4.2 7.0 3.57 69.0 3.57 3.54E-03 -8.00 2.24 1.78E-02 5867 2.9 14.0 25.00 60.0 25.00 4.39E-04 -58.50 2.34 2.31E-03 5868 2.9 2.5 4.50 34.3 4.50 1.39E-03 -10.55 2.34 7.35E-03 5869 4.8 2.1 0.33 30.0 0.93 1.65E-02 0.50 -1.50 5871 3.0 3.4 3.05 120.0 3.05 7.20E-03 -5.75 1.89 3.05E-02 5872 3.0 0.5 0.18 200.0 0.18 2.09E-01 -0.04 0.20 9.41E-02 5873 3.7 1.8 0.57 40.0 0.57 1.28E-02 -0.36 0.64 1.84E-02 5902 3.8 6.4 2.14 6.2 2.14 5.29E-04 -1.74 0.81 9.68E-04 5914 3.6 13.0 7.86 40.0 7.86 9.32E-04 -15.29 1.95 4.08E-03 <td>5864</td> <td>2.6</td> <td>3.1</td> <td>4.67</td> <td>40.0</td> <td></td> <td></td> <td></td> <td></td> <td>6.83E-03</td>	5864	2.6	3.1	4.67	40.0					6.83E-03
5867 2.9 14.0 25.00 60.0 25.00 4.39E-04 -58.50 2.34 2.31E-03 5868 2.9 2.5 4.50 34.3 4.50 1.39E-03 -10.55 2.34 7.35E-03 5869 4.8 2.1 0.33 30.0 0.33 1.65E-02 0.50 -1.50 5871 3.0 3.4 3.05 120.0 3.05 7.20E-03 -5.75 1.89 3.05E-02 5872 3.0 0.5 0.18 200.0 0.18 2.09E-01 -0.04 0.20 9.41E-02 5873 3.7 1.8 0.57 40.0 0.57 1.28E-02 -0.36 0.64 1.84E-02 5902 3.8 6.4 2.14 6.2 2.14 5.29E-04 -1.74 0.81 9.68E-04 5914 3.6 13.0 7.86 40.0 7.86 9.32E-04 -15.29 1.95 4.08E-03	5865	2.7	1.3	0.30						
5868 2.9 2.5 4.50 34.3 4.50 1.39E-03 -10.55 2.34 7.35E-03 5869 4.8 2.1 0.33 30.0 0.93 1.65E-02 0.50 -1.50 5871 3.0 3.4 3.05 120.0 3.05 7.20E-03 -5.75 1.89 3.05E-02 5872 3.0 0.5 0.18 200.0 0.18 2.09E-01 -0.04 0.20 9.41E-02 5873 3.7 1.8 0.57 40.0 0.57 1.28E-02 -0.36 0.64 1.84E-02 5902 3.8 6.4 2.14 6.2 2.14 5.29E-04 -1.74 0.81 9.68E-04 5914 3.6 13.0 7.86 40.0 7.86 9.32E-04 -15.29 1.95 4.08E-03										
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5914 3.8 13.0 7.86 40.0 7.86 9.32E-04 -15.29 1.95 4.08E-03										
					_		3.84E-04	-37.76	3.30	

Table 1.4.1 (9/15) Analysis of existing recovery test data

B/H no	X1	YS	Gradient	Q (I/mIn)	della s t	Transmissivity (m2/min)	intercept	t*	Storage Coefficient
5918	3.4	6.2	3.83	26.7	3.83	1.27E-03	-6.83	1.78	5.11E-03
5921	3.5	2.4	1.88	25.0	1.88	2.43E-03	-4.38	2.33	1.27E-02
5922	3.9	19.0	12.22	18.5	12.22	2.76E-04	-28.67	2.35	1.46E-03
5923	3.8	13.0	10.48	12.6	10.48	2.21E-04	-26.81	2.56	1.27E-03
5924	3.5	5.0	5.63	142.8	5.63	4.65E-03	-14.69 0.09	2.61 -0.78	2.73E-02
5925	3.3	0.5	0.12	28.6	0.12	4.36E-02 6.03E-04	-16.08	2.38	3.23É-03
5926 5927	2.9 4.3	3.5 10.0	6.75 5.83	22.2 22.2	6.75 5.83	6.97E-04	-15.08	2.59	4.06E-03
5928	3.3	3.5	0.34	26.7	0.34	1.44E-02	-0.62	1.63	5.91E-02
5929	4.0	0.8	0.44	25.0	0.44	1.03E-02	-0.98	2.20	5.10E-02
5931	3.9	0.9	0.33	24.0	D.33	1.32E-02	-0.40	1.20	3.56E-02
5932	3.9	15.0	13.68	20.0	13.68	2.68E-04	-38.37	2.60	1.69E-03
5933	3.6	10.0	7.06	16.9	7.06	4.38E-04	-15.41	2.18	2.15E-03
5934 5935	5.0 4.6	3.0 2.9	4.31 0.94	3.8	4.31 0.94	1.59E-04 3.88E-03	-18.54 -1.44	4.30 1.53	1.54E-03 1.33E-02
5936	3.1	3.4	0.75	20.0 22.6	0.75	5.53E-03	1.07	-1.43	1.336.02
5940	3.7	3.1	1.40	30.0	1.40	3.92E-03	-2.08	1.49	1.31E-02
5942	3.5	12.0	18.00	10.4	18.00	1.06E-04	-51.00	2.83	6.76E-04
5943	4.3	3.3	1.15	25.0	1.15	3.97E-03	-1.66	1.44	1.28E-02
5944	3.8	1.4	0.38	17.9	0.38	8.74E-03	-0.03	0.07	1.31E-03
5945	3.1	5.0	5.86	14.1	5.86	4.41E-04	-13.16	2.25	2.23E.03
5946 5947	4.4 4.1	20.0 1.2	20.89 1.16	1.1	20.89	9.38E-06	-71.91	3.44	7.26E-05
5949	3.4	9.0	10.42	142.9 14.5	1.16 10.42	2.25E-02 2.54E-04	-3.56 -26.42	3.07 2.54	1.55E-01
5950	4.5	6.1	4.64	14.8	4.64	5.83E-04	-14.76	3.18	1.45E-03 4.19E-03
5951	4.3	16.0	10.31	5.9	10.31	1.04E-04	-28.32	2.75	6.42E-04
5959	4.0	13.0	9.00	12.4	9.00	2.52E-04	-23.00	2.56	1.45E-03
5954	4.4	9.0	6.87	14.1	6.67	3.88E-04	-20.33	3.05	2.66E-03
5962	3.4	1.2	1.22	17.1	1.22	2.58E-03	-2.94	2.41	1.40E-02
5963	4.4	9.0	6.67	142.9	6.67	3.926.03	-20.33	3.05	2.69E-02
5964 5965	3.7 4.5	6.0 0.9	4,29 0,11	27.3 26.7	4.29	1.16E-03	-9.86	2.30	6.03E-03
5966	4.5	1.9	0.65	25.0	0.11 0.65	4.27E-02 7.07E-03	0.37	-3.20	
5968	3.2	4.6	7.32	15.4	7.32	3.85E-04	-1.01 -18.86	1.56 2.58	2.49E-02
5973	4.6	0.5	0.23	11.7	0.23	9.48E-03	-0.52	2.29	2.23E-03 4.88E-02
5974	4.3	1.1	0.69	14.6	0.69	3.88E-03	-1.86	2.70	2.35E-02
5977	4.0	5.0	3.75	14.6	3.75	7.148-04	10.00	2.67	4.28E-03
5981 5982	4.4	6.5	2.50	17.9	2.50	1.31E-03	-4.50	1.80	5.31E-03
5983	4.5 3.9	9.0 2.8	4.53 1.31	13.3	4.53	5.39E-04	11.38	2.51	3.05E-03
5984	3.3	3.9	2.40	18.5 142.9	1.31 2.40	2.58E-03 1.09E-02	-2.31	1.76	1.02E-02
5985	4.4	13.0	8.00	8.6	8.00	1.96E-04	4.02	1.68	4.11E-02
5986	3.5	3.7	1.20	18.5	1.20	2.83E-03	-22.20 -0.50	2.78 0.42	1.22E-03
5987	4.4	0.5	0.12	18.8	0.12	2.79E-02	-0.02	0.18	2.64E-03 1.10E-02
5988	4.8	4.2	1.71	17.9	1.71	1.91E-03	-3.69	2.15	9.24E-03
5989	4.4	5.6	1.94	17.1	1.94	1.62E-03	-2.93	1.51	5.50E-03
5990 5991	3.9 3.7	13.0	8.57	14.1	8.57	3.02E-04	-20.43	2.36	1.62E-03
6000	3.4	5.8 13.0	3.56 30.00	20.0	3.56	\$.03E-03	-7.36	2.07	4.79E-03
6002	4.1	59.0	59.00	52.2 66.0	30.00 59.00	3.18E-04	-89.00	2.97	2.12E-03
6004	3.3	0.6	0.22	92.0	0.22	2.05E-04 7.82E-02	-182.90	3.10	1.43E-03
6005	2.7	2.4	4.33	200.0	4.33	8.45E-03	-0.07 -9.30	0.33	5.78E-02
6006	2.6	3.0	6.67	109.0	6.67	2.99E-03	-14.33	2.15 2.15	4.08E-02
6024	3.9	46.0	65.00	45.0	65.00	1.27E-04	-207.50	3.19	1.45E-02 9.10E-04
6036 6049	3.8	17.0	30.00	25.0	30.00	1.53E-04	.97.00	3.23	1.11E-03
6049	4.2 3.4	48.0 57.0	48.00	58.0	48.00	2.21E-04	-153.60	3.20	1.59E-03
6052	4.4	57.0 32.0	61.67 32.00	150.0	61.67	4.45E-04	-152.67	2.48	2.48E-03
6056	3.0	24.0	40.00	43.Ó 123.D	32.00 40.00	2.46E-04	-108.80	3.40	1.88E-03
6057	3.9	0.6	0.36	165.0	0.36	5.63E-04 8.30E-02	-96.00	2.40	3.04E-03
8068	4.8	50.0	62.50	66.7	62.50	1.95E-04	-0.82	2.25	4.20E-01
6069	3.8	4.8	2.18	82.5	2.18	6.922-03	-250.00 -3.49	4.00	1.76E-03
6081	4.6	19.0	40.00	82.5	40.00	3.77E-04	-165.00	1.60 4.13	2.49E-02
							. 50.00	2.13	3.50E-03

Table 1.4.1 (10/15) Analysis of existing recovery test data

and an experience of the property of the prope

B/H no	XI	Y1	Gradient	Q (I/mIn)	delta s r	Transmissivity (m2/min)	Intercept	ŧ•	Storage Coefficient
6086	3.6	28.0	28.00	157.0	26.00	1.11E-03	-65.60	2.52	6.27E-03
6093	3.8	2.0	2.00	216.7	2.00	1.98E-02	-5.60	2.80	1-25E-01
6095	4.4	70.0	42.86	103.1	42.86	4.40E-04	-118.57	2.77	2.74E-03
6098	4.0	50.0	27.78	66.7	27.78	4.39E-04	-61-11	2.20	2.17E-03
6099 6100	4.8 5.0	6.0 28.0	6.67 36.67	240.0	6.67	6.59E-03	-26.00	3.90	5.78E-02
6101	4.1	2.3	0.78	19.0 20.0	36.67 0.78	9.48E-05 4.67E-03	-155.33	4.24	9.048-04
6103	3.4	2.1	0.97	21.1	0.97	3.99É-03	-0.92 -1.19	1.17 1.23	1.23E-02 1.10E-02
6105	3.1	0.8	1.50	18.5	1.50	2 25E-03	-3.85	2.57	1.30E-02
6106	4.6	11.0	7.27	9.0	7.27	2.27E-04	-22.45	3.09	1.58E-03
6108	4.5	3.5	2.50	15.6	2.50	1.14E-03	-6.75	2.70	6.93E-03
6114	4.4	36.0	26.67	40.0	26.67	2.75E-04	-81.33	3.05	1.88E-03
6120	4.5	16.0	11.67	8.0	11.67	1.268-04	-36.50	3.13	8.83E-04
6127 6129	3.4 4.3	8.4 18.0	3.75 16.67	93.3 3.0	3.75 16.67	4.55E-03	-4.35	1.16	1.19E-02
6130	4.3	13.0	11.25	6.5	11.25	3.33E-05 1.06E-04	-53.67 -35.38	3.22 3.14	2.41E-04 7.47E-04
6131	4.6	4.3	4.50	4.7	4.50	1.93E-04	-16.45	3.66	1.59E-03
6132	4.1	7.0	5.56	2.8	5.56	9.06E-05	-15.78	2.84	5.79E-04
6134	4.6	14.0	15.00	4.0	15.00	4.88E-05	-55.00	3.67	4.03E-04
6136	4.6	16.0	15.00	6.1	15.00	7.43E-05	-53.00	3.53	5.91E-04
6138	4.4	20.0	13.54	8.3	13.64	1.12E-04	-40.00	2.93	7.38E-04
6141	3.7	3.6	3.14	12.8	3.14	7.43E-04	-8.03	2.55	4.27E-03
6143 6145	4.5 3.8	1.1 4.6	0.64 2.33	18.7 19.4	0.64 2.33	5.39E-03	•1.76	2.77	3.36E-02
6146	4.2	0.8	0.38	10.2	0.38	1.52E-03 4.96E-03	-4.27 -0.78	1.83 2.07	6.25E-03 2.31E-02
6151	2.6	16.0	12.73	4.6	12.73	6.62E-05	17.09	1.34	2.00E-04
6154	4.2	14.0	4.44	206.9	4.44	8.52E-03	-4.67	1.05	2.01E-02
6156	4.0	7.0	5.83	46.8	5.83	1.47E-03	-16.33	2.80	9.25E-03
6157	4.2	0.4	0.38	5.1	0.38	2.50E-03	-1.14	3.03	1.71E-02
6184	4.2	11.0	15.00	3.0	15.00	3.66E-05	-52.00	3.47	2.86E-04
6206	3.2	20.0	26.67	201.5	26.67	1.38E 03	-65.33	2.45	7.62E-03
6208 6209	3.4 4.8	8.0 2.4	23.33 1.38	200.0 125.0	23.33 1.38	1.57E-03 1.66E-02	-71.33 -4.20	3.06 3.05	1.08E-02
6211	4.4	3.5	6.25	50.0	6.25	1.46E-03	-24.00	3.84	1.14E-01 1.27E-02
6212	3.7	40.0	100.00	150.0	100.00	2.75E-04	-330.00	3.30	2.04E-03
6213	4.4	15.0	14.00	150.0	14.00	1.96E-03	-46.60	3.33	1.47E-02
6214	4.4	36.0	26.67	4.0	26.67	2.75E-05	81.33	3.05	1.88E-04
6216	3.8	100.0	112.50	45.0	112.50	7.32E-05	-327.50	2.91	4.80E-04
6217	4.6	100.0	125.00	25.0	125.00	3.66E-05	-475.00	3.80	3.13E-04
6219	4.0	60.0	56.00	35.4 30.0	56.00	1.81E-04 6.59E-05	-164,00 -290,00	2,93 3,48	1.19E-03
6220 6221	4.2 4.2	60.0 1.6	83.33 1.20	42.1	83.33 1.20	6.41E-03	-3.44	2.87	5.16E-04 4.14E-02
6223	4.4	90.0	80.00	23.5	80.00	5.37E-05	-262.00	3.28	3.96E-04
6224	4.4	80.0	75.00	47.8	75.00	1.17E-04	-250.00	3.33	8.75E-04
8225	3.5	22.0	21.11	82.2	21.11	5.39E-04	-51.89	2.46	2.98E-03
6228	3.2	8.0	6.25	151.5	6.25	4.44E-03	-12.00	1.92	1.92E-02
6239	4.6	7.5	4.69	45.5	4.69	1.77E-03	-14.06	3.00	1.20E-02
6240	4.4	0.7	0.48	40.9	0.48	1.56E-02	-1.41	2.94	1.03E-01
6242	3.4	9.0	6.25	15.2	6.25	4.448-04	-12.25	1.96	1.96E-03
6244	3.8 4.4	10.0 10.0	7.33 5.25	26.4 9.1	7.33 6.25	6.59E-04 2.66E-04	-17.87 -17.50	2.44	3.61E-03 1.68E-03
6248	4.0	6.6	7.50	45.5	7.50	1.11E-03	-24.00	3.20	7.99E-03
6250	4.8	17.0	37.50	22.7	37.50	1.11E-04	-163.00	4.35	1.08E-03
6251	4.2	30.0	32.50	37.9	32.50	2.13E-04	-106.50	3.28	1.57E-03
6252	4.2	28.0	46.67	136.4	46.67	5.35E-04	-168.00	3.60	4.33E-03
6258	4.8	110.0	225.00	136.4	225.00	1.11E-04	-970.00	4.31	1.08E-03
6260	3.4	50.0	41.67	41.7	41.67	1.83E-04	91.67	2.20	9.06E-04
6264	3.5	70.0	71.43	41.7	71.43	1.07E-04	-180.00	2.52	6.05E-04
6276	3.8	0.9	0.80	99.0	0.80 2.50	2.26E-02 1.37E-02	-2.14 -8.50	2.68	1.36E-01
6277 6279	4.6 3.8	3.0 7.0	2.50 11.67	187.0 22.1	11.67	3.47E-02	-8.50 -37.33	3.40 3.20	1.05E-01 2.50E-03
6588 651A	3.9		66.67	88.0	66.67	2.42E-04	-200.00	3.00	1.63E-03
6292	4.4	3.4	1.45	80.0	1.45	1.01E-02	-3.00	2.06	4.67E-02

Table 1.4.1 (11/15) Analysis of exising recovery test data

B/H No	X 1	Y1	Gradient	Q (I/mIn)	đelta s r	Transmisivily (m2/min)	Intercept	t*	Storage Coefficient
								- 44	- 20E AA
6293	4.1	4.0	2.73	189	2.73	1.27E-02	-7.18	2.63 3.64	7.52E·02 2.92E·03
6295	4.6	120.0	125.00	243.09	125.00	3.56E-04	-455.00 -144.67	3.10	2.05E-03
6300	3.7	28.0	46.67	75	46.67	2.94E-04 4.03E-03	9.00	2.25	2.04E-02
6301	4.0	7.0	4.00	88 27	4.00 20.00	2.47E-04	-60.00	3.00	1.67E-03
6302 6309	3.6	12.0 50.0	20.00 62.50	303.03	62.50	8.87E-04	162.50	2.60	5.19E-03
6320	3.4 4.0	30.0	22.92	33.3	22.92	2.66E-04	-61.67	2.69	1.61E-03
6321	3.4	50.0	50.00	99.5	50.00	3.64E-04	-120.00	2.40	1.97E-03
6322	3.8	90.0	75.00	69.67	75.00	1.70E-04	-195.00	2.60	9.95E-04
6323	3.8	18.0	30.00	165	30.00	1.01E-03	-90.00	3.00	6.79E-03
6325	4.6	16.0	16.67	91.03	16.67	1.00E-03	-30.67	1.84	4.14E-03
6326	4.0	17.0	15.00	225	15.00	2.75E-03	-43.00	2.87	1.77E-02
6327	4.1	2.1	0.30	150	0.30	9.15E-02	0.87	-2.90	
6330	4.3	11.0	5.00	85.72	5.00	3.14E-03	-10.50	2.10	1.48E-02
6331	4.2	70.0	60.00	45.27	60.00	1.38E-04	-182.00	3.03 3.33	9.42E-04 9.98E-04
6332	4.0	100.0	150.00	109.08	150.00	1.33E-04	-500.00 -118.00	3.33 2.95	2.17E-03
6347 6352	3.8	34.0 20.0	40.00	71.4 171.42	40.00 16.00	3.27E-04 1.96E-03	-39.20	2.45	1.08E-02
6354	3.7 4.4	60.0	16.00 48.00	133.33	46.00	5.08E-04	-151.20	3.15	3.60E-03
6360	2.9	10.0	14.00	160.97	14.00	2.10E-03	-30.60	2.19	1.03E-02
6361	4.8	70.0	23.08	20	23.08	1.59E-04	-40.77	1.77	6.31E-04
6362	3.8	13.0	8.33	12.65	8.33	2.78E-04	-18.67	2.24	1.40E-03
6364	2.8	14.3	8.25	41.67	8.25	9.24E-04	-8.80	1.07	2.22E-03
6365	3.8	5.0	4.00	25	4.00	1.14E-03	-10.20	2.55	6.56E-03
6367	4.8	150.0	175.00	16.67	175.00	1.74E-05	-690.00	3.94	1.55E-04
6368	2.9	1.8	1.67	150	1.67	1,65E-02	-3.03	1.82	6.75E-02
6377	3.5	30.0	75.00	35	75.00	8.54E-05	-232.50	3.10	5.96E-04
6378	3.2	2.6	3.33	4.3	3.33	2.36E-03	-8.07	2.42	1.29E-02
6484	4.0	3.0	6.25	200	8.25	5.86E-03	-22.00	3.52	4.64E-02
6493	3.0	11.0	15.00	125	15.00	1.53E-03	-34.00	2.27	7.78E-03
6519	3.4	21.0	38.00	94.26	38.00	4.54E-04	108.20	2.85	2.91E-03
6524 6538	3.2 5.2	0.1 0.9	0.08 0.41	220 174	0.08	5.03E-01	-0.15	1.83	
6541	4.0	5.5	2.92	125	0.41 2.92	7.84E-02	1.26	3.11	5.48E-01
6542	4.2	2.8	1.38	5 6	1.38	7.84E-03 7.45E-03	+6.17 -2.98	2.11 2.16	3.73E-02
6543	3.8	8.4	2.33	26.6	2.33	2.09E-03	-2.30	0.20	3.63E-02 9.39E-04
6544	4.4	9.0	5.83	5	5.63	1.57E-04	-16.67	2.86	1.01E-03
6546	4.4	14.0	10.00	80	10.00	1.46E-03	-30.00	3.00	9.88E-03
6548	3.2	6.0	25.00	30	25.00	2.20E-04	-74.00	2.96	1.46E-03
6549	3.8	4.5	2.86	21.42	2.86	1.37E-03	-6.36	2.23	6.87E-03
6550	3.0	5.0	5.83	33.3	5.83	1.04E-03	-12.50	2.14	5.04E-03
6551	3.4	5.0	5.63	60	5.63	1.95E-03	-14.13	2.51	1.10E-02
6552	3.4	12.0	12.50	133.33	12.50	1.95E-03	-30.50	2.44	1.07E-02
6553 6554	3.7 3.6	7.6	4.29	17.13	4.29	7.32E-04	-8.26	1.93	3.17E-03
6555	4.2	19.0 12.0	0.02 15.00	42.85 6.67	0.02 15.00	3.53E-01		-851.40	
6556	4.0	9.0	7.50	20	7.50	8.14E-05	-51.00	3.40	6.23E-04
6557	4.8	8.0	6.67	3.33	6.67	4.88E-04 9.14E-05	-21.00	2.80	3.07E-03
6558	4.1	1.0	0.06	63.15	0.06	1.93E-01	-24.00 0.78	3.60	7.41E-04
6561	3.4	5.0	8.89	16.67	8.89	3.43E-04	-25.22	-13.07	
6562	4.0	0.7	0.60	13.33	0.60	4.07E-03	-1.70	2.84 2.83	2.19E-03
6563	3.5	2.6	0.90	200	0.90	4.07E-02	-0.55	0.61	2.59E-02
6564	4.1	26.0	16.00	240	16.00	2.75E-03	-39.60	2.48	5.59E-02 1.53E-02
6566	3.8	1.5	0.56	66.67	0.56	2.20E-02	-0.61	1.10	5.44E-02
6567	3.8	1.1	0.86	80	0.86	1.71E-02	-2.16	2.52	9.67E-02
6568	3.9	3.4	3.00	5.72	3.00	3.49E-04	-8.30	2.77	2.17E-03
6569	4.1	3.8	0.07	109.08	0.07	2.75E-01	3.53	-48.70	
6570	3.9	14.5	10.50	50	10.50	8.72E-04	-26.45	2.52	4.94E-03
6571 6572	3.8	4.0	4.29	50	4.29	2.14E-03	-12.29	2.87	1.38E-02
6572	3.4 3.7	4.7 21.0	0.94 18.89	121.4	0.94	2.35E-02	1.49	1.58	
6574	3.2	11.0	16.00	18.75 66.67	18.89 16.00	1.82E-04	-48 89	2.59	1.06E-03
6575	3.7	7.0	8.57	43.33	8.57	7.63E-04 9.25E-04	-40.20	2.51	4.31E-03
			5.57	10.00	0.07	7.43E-U4	-24.71	2.88	6.00E-03

Table 1.4.1 (12/15) Analysis of existing recovery test data

8/H no	X1	Y1	Gradient	Q {t/mIn}	delta s r	Transmissivity (m2/min)	Intercept	t*	Storage Coefficient
				•		(
6579	3.9	29.0	5.00	105.9	5.00	3.88E-03	9.50	-1.90	
6585	2.9	4.4	4.50	35.0	4.50	1.42E-03	-8.65	1.92	6.16E-03
6588 6609	. 3.4 3.0	9.0	83.33	77.6	83.33	1.70E-04	-274.33	3.29	1.26E-03
6612	3.0	24.0 1.5	28.33 3.50	181.8	28.33	1.17E-03	-61.00	2.15	5.69E-03
6613	4.0	17.0	17.50	101.5 75.0	3.50 17.50	5.31E-Ó3 7.84E-Ó4	10.05	2.87	3.43E-02
6614	4.0	30.0	17.50	36.7	17.50	3.84E-04	-53.00 -40.00	3.03 2.29	\$.35E-03 1.97E-03
6616	5.0	1.4	0.93	20.0	0.93	3.95E-03	-3.23	3.49	3.10E-02
6617	4.0	23.0	19.17	13.3	19.17	1.27E-04	-53.67	2.80	8-02E-04
6619	4.4	26.0	16.25	25.0	16.25	2.82E-04	-45.50	2.80	1.77E-03
6620	4.8	5.0	2.08	50.0	2.08	4.39E-03	-4.58	2.20	2.17E-02
6622	4.6	20.0	50.00	6.7	50.00	2.44E-05	-210.00	4.20	2.31E-04
6623	4.0	11.0	8.46	100.0	8.46	2.16E-03	-22.83	2.70	1.31E-02
6624	63.4	9.0	3.46	100.0	3.46	5.29E-03	-210.46	60.80	7.23E-01
6627	3.6 3.6	10.0	15.00	75.0	15.00	9.15E-04	-44.00	2.93	6.04E-03
6630 6631	3.0 : 4.0	12.0 3.7	2.40 1.17	220.0 220.0	2.40 1.17	1.68E-02	3.36	-1.40	C 43E ÅD
6633	3.2	34.0	28.00	88.0	28.00	3.45E-02 5.75E-04	-0.97 -55.60	0.83 1.99	6.43E-02 2.57E-03
6634	3.0	4.5	6.25	757.6	6.25	2.22E-02	-14.25	2.28	1.14E-01
6635	3.5	70.0	67.00	105.6	67.00	2.88E-04	-164.50	2.46	1.59E-03
6643	3.6	30.0	26.00	52.8	26.00	3.72E-04	-63.60	2.45	2.05E-03
6658	3.3	8.0	5.00	114.3	5.00	4.18E-03	-8.50	1.70	1.60E-02
6679	5.0	4.0	8.57	10.0	8.57	2.14E-04	-38.43	4.48	2.15E-03
6682	2.8	2.0	0.12	120.0	0.12	1.86E-01	1.66	-14.26	
6686	3.7	21.2	10.29	100.0	10.29	1.78E-03	-16.86	1.64	6.56E-03
6704	3.1	0.2	0.15	70.0	0.15	8.54E-02	-0.24	1.57	3.01E-01
6746	4.2	20.0	18.75	60.0	18.75	5.86E-04	-58.75	3.13	4.13E-03
6750	3.8	11.0	6.00	48.0	6.00	1.46E-03	-11.80	1.97	6.48E-03
6751 6752	4.4 3.2	34.0 32.0	26.00 36.67	60.0 120.0	26.00 36.67	4.22E-04 5.99E-04	-80.40 -85.33	3.09 2.33	2.94E-03 3.14E-03
6753	3.2	7.0	7.50	200.0	7.50	4.88E-03	-15.50	2.07	2.27E-02
6754	3.6	8.0	5.71	24.0	5.71	7.69E-04	-12.57	2.20	3.81E-03
6755	3.6	32.0	35.00	80.0	35.00	4.18E-04	-94.00	2.69	2.53E-03
6756	4.2		3.50	20.0	3.50	1.05E-03	-10.70	3.06	7.19E-03
6757	3.7	0.7	0.28	300.0	0.28	1.96E-01	-0.30	1.06	4.66E-01
6759	4.0	40.0	35.00	133.3	35.00	6.97E-04	-100.00	2.86	4.48E+03
6760	4.4	15.0	21.67	15.0	21.67	1.27E-04	-80.33	3.71	1.06E-03
6795	3.8	32.0	28.60	272.7	28.00	1.78E-03	-74.40	2.66	1.07E-02
6860	4.2	35.0	35.00	20.0	35.00	1.05E-04	-112.00	3.20	7.53E-04
6867	4.0	14.0	6.88	80.0	6.88	2.13E-03 1.17E-03	-13.50 -20.50	1.96	9.41E-03
6870	4.4	7.0	6.25 0.48	49.0 60.0	6.25 0.48	2.29E-02	0.19	3.28 -0.40	8.64E-03
6872 6873	2.6 2.9	1.4 11.0	10.71	80.0	10.71	1.37E-03	-20.07	1.87	5.76E-03
6874	3.4	6.0	3.08	160.0	3.08	9.52E-03	-4.46	1.45	3.11E-02
6875	3.2	7.5	3.00	266.6	3.00	1.63E+02	-2.10	0.70	2,56E-02
6878	3.6	55.0	45.83	110.0	45.83	4.39E-04	-110.00	2.40	2.37E-03
6910	3.4	16.0	10.50	240.0	10.50	4.18E-03	-19.70	1.88	1.77E-02
6912	3.7	13.0	12.22	20.0	12.22	3.00E-04	-32.22	2.64	1.78E-03
6916	3.8	30.0	30.00	26.7	30.00	1.63E-04	-84.00	2.80	1.02E-03
6917	4.1	28.0	17.33	40.0		4.22E-04	-43.07	2.48	2.36E-03
6919	3.4	11.0	10.00	10.0	10.00	1.83E-04	-23.00	2.30	9.47E-04
6924	3.2	23.0	30.00	129.4	30.00	7.89E-04	-73.00	2.43	4.32E-03
6931	3.1	6.5	5.00	90.0	5.00 20.00	3.29E-03 3.66E-04	-9.00 -82.00	1.80 4.10	1.33E-02
6951	4.8	14.0	20.00	40.0 70.6	66.67	1.94E-04	-253.33	3.80	3.38E-03 1.66E-03
6974 6975	4.4	40.0 8.0	66.67 6.67	120.0	6.67	3.29E-03	-18.67	2.80	2.08E-02
7086	3.9		128.57	73.3		1.04E-04	-391,43	3.04	7.15E-04
7109	6.0		1.50	127.6	1.50	1.56E-02	-4.50	3.00	1.05E-01
7155	4.4		43.75	20.0	43.75	8.37E-05	-157.50	3.60	6.78E-04
7205	4.2	70.0	125.00	4 4 4	125.00	1.25E-04	455.00	3.64	1.02E-03
7218	3.8	12.0	25.00	13.8	25.00	1.01E-04	-83.00	3.32	7.55E-04
7219	3.4	7.0		10.0	14.00	1.31E-04	.40.60	2.90	8.53E-04
7303	3.4	5.0	4.00	60.0	4.00	2.75E-03	•8.60	2.15	1.33E-02

Table 1.4.1 (13/15) Analysis of existing recovery test data

8/H no	Х1	¥1	Gradient	Q (I/mln)	della s r	Transmissivity (m2/min)	Intercept	t*	Storage Coefficient
7313	3.4	50.0	100.00	97.0	100.00	1.78E-04	-290.00	2.90	1.16E-03
7344	3.0	0.1	0.18	36.6	0.18	3.72E-02	0.45	2.52	2.11E-01
7346	1.5	2.2	3.72	933.3	3.72	4.59E-02	-3.36	0.90	9.33E-02
7352	3.2	18.0	26.00	73.3	26.00	5.16E-04	-65.20	2.51	2.91E-03
7312	3.3	19.0	14.17	176.0	14.17	2.27E-03	-27.75	1.96	1.00E-02
7381 7398	3.2 3.1	0.2 10.0	0.40 35.00	480.0 114.8	0.40 35.00	2.20E-01 6.00E-04	-1-11 -98.50	2.78 2.81	3.80E-03
7404	4.4	50.0	33.33	120.0	33.33	6.59E-04	-96.67	2.90	4.30E-03
7406	4.0	1.2	0.35	31.3	0.35	1.63E-02	-0.20	0.57	2.10E-02
7412	3.7	11.0	16.67	44.0	16.67	4.83E-04	-50.67	3.04	3.31E-03
7416	3.5	9.0	8.57	101.5	8.57	2.17E-03	-21.00	2.45	1.19E-02
7417	3.5	17.0	22.86	44.0	22.86	3.52E-04	-63.00	2.76	2.18E-03
7418 7426	4.2 3.8	18.0	22.86	60.6	22.85	4.85E-04	-78.00	3.41	3.73E-03
7426	4.2	19.0 8.0	35.00 6.25	133.3 31.4	35.00 6.25	6.97E-04 9.20E-04	-114.00 -18.25	3.26 2.92	5.11E-03 6.05E-03
7428	3.4	30.0	30.00	220.0	30.00	1.34E-03	-72.00	2.40	7.25E-03
7429	4.4	90.0	100.00	30.0	100.00	5.49E-05	-350.00	3.50	4.32E-04
7433	4.0	26.0	27.50	146.7	27.50	9.76E-04	-84.00	3.05	6.71E-03
7436	2.5	1.6	0.63	280.0	0.63	8.20E-02	-0.08	0.12	2 21E-02
7437	4.0	1.1	0.16	300.0	0.16	3.53E-01	0.50	3.20	•
7438	4.0	1.2	0.14	300.0	0.14	3.95E-01	0.64	4.64	
7439 7440	4.4 4.2	1.1	0.06 0.16	300.0 300.0	0.05	9.41E-01	0.86	-14.80	
7441	4.2	1.8	0.18	300.0	0.16 0.18	3.45E-01 3.02E-01	0.83	5.23	
7442	3.2	1.8	0.42	300.0	0.42	1.32E-01	0.99 0.42	-5.43 -1.00	
7443	3.8	1.6	0.19	300.0	0.19	2.82E-01	0.81	-4.17	
7447	3.5	15.0	32.50	27.1	32.50	1.52E-04	-98.75	3.04	1.04E-03
7454	4.1	21.0	40.00	10.0	40.00	4.58E-05	-143.00	3.58	3.68E-04
7560	4.4	\$1.5	10.50	10.0	10.50	1.74E-04	-34.70	3.30	1.30E-03
7563 7565	4.6 3.7	20.0 16.0	33.33 10.91	4.8	33.33	2.64E-05	-133.33	4.00	2.37E-04
7566	3.6	8.0	6.25	30.0 26.7	10.91 6.25	5.03E-04	-24.36	2.23	2.53E-03
7568	4.2	16.0	13.33	75.0	13.33	7.81E-04 1.03E-03	-14.50	2.32	4.08E-03
7571	3.2	35.0	35.71	233.3	35.71	1.20E-03	-40.00 -79.29	3.00 2.22	6.95E-03
7574	3.6	24.0	22.00	30.0	22.00	2.50E-04	-55.20	2.51	5.97E-03 1.41E-03
7575	4.1	30.0	33.33	133.3	33.33	7.32E-04	-106.67	3.20	5.27E-03
7576	3.2	12.0	6.00	24.0	6.00	7.32E-04	-7.20	1.20	1.98E-03
7577 7578	3.6 4.2	35.0 30.0	26.92	160.0	26.92	1.09E-03	-61.92	2.30	5.63E-03
7579	4.2	12.0	40.00 6.00	10.0 30.0	40.00 6.00	4.58E-05	-138.00	3.45	3.55E-04
7581	2.5	2.0	1.00	300.0	1.00	9.15E-04 5.49E-02	-13.20	2.20	4.53E-03
7582	4.6	45.0	41.67	14.2	41.67	6.22E-05	-0.50	0.50	6.18E-02
7584	4.0	18.0	22.50	66.7	22.50	5.42E-04	•146.67 •72.00	3.52 3.20	4-93E-04
7585	3.5	14.0	25.00	136.4	25.00	9.98E-04	-73.50	2.94	3.90E-03 6.60E-03
7610	4.6	2.8	20.00	34.0	20.00	3.11E-04	-89.20	4.46	3.12E-03
7612 7627	4.2	11.0	30.00	20.0	30.00	1.22E-04	-115.00	3.83	1.05E-03
7630	4.4 3.0	21.0 15.0	28.87 14.29	90.0	26.67	6.18E-04	-96.33	3.61	5.02E-03
7632	2.8	0.7	1.00	63.0 38.9	14.29 1.00	8.07E-04	-27.86	1.95	3.54E-03
7634	3.7	11.0	55.00	125.0	22.00	7.12E-03 1.04E-03	-2.08	2.08	3.33E-02
7635	4.8	6.5	2.22	50.0	2.22	4.12E-03	-70.46	3.20	7.49E-03
7636	3.8	7.5	4.55	40.0	4.55	1.61E-03	-4.17 -9.77	1.88 2.15	1.74E-02
7637	3.7	25.0	11.00	50.0	\$1.00	8.32E-04	-15.70	1.43	7.79E-03
7640 7641	3.8	23.0	19.00	20.0	19.00	1.93E-04	-49.20	2.59	2.67E-03 1.12E-03
7647	4.0 3.7	8.0	10.00	66.7	10.00	1.22E-03	-32.00	3.20	8.79E-03
7648	3.7	13.0 7.0	17.14 3.67	120.0	17.14	1.28E-03	-50.43	2.94	8.48E-03
7650	4.4	2.1	3.67 0.55	200.0 150.0	3.67	9.98E-03	-5.10	1.39	3.12E-02
7652	3.8	15.0	6.25	80.0	0.55 6.25	5.03E-02 2.34E-03	•0.30	0.55	6.23E-02
7656	4.2	2.8	2.20	66.7	2.20	2.34E-03 5.55E-03	8.75	1.40	7.38E-03
7659	3.8	19.0	13.00	33.3	13.00	4.69E-04	-6.44 -30.40	2.93	3.65E-02
7660	3.0	3.5	7.50	70.6	7.50	1.72E-03	19.00	2.34 2.53	2.47E-03
7667	5.0	3.2	1.78	109.1	1.78	1.12E-02	-5.69	3.20	9.82E-03 8.09E-02
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Table 1.4.1 (14/15) Analysis of existing recovery test data

8/H no	ХI	Υ1	Gradlent	Q ()/mtn)	delta S r	Transmissivity (m2/min)	Intercept	l*	Storage Coefficient
						4.		1.65	1.30E-02
7668	3.2	8.6	4.00	120.0	4.00	5.49E-03	-4.20 -33.67	3.11	2.36E-03
7671	4.4	14.0 24.0	10.83 16.00	20.0 4.0	10.83 16.00	3.38E+04 4.58E+05	43.20	2.70	2.78E-04
7672	4.2 5.4	9.7	5.44	171.4	5.44	5.77E-03	-19.66	3.62	4.698-02
7673	4.4	5.8	0.55	150.0	0.55	5.03E-02	3.41	-6.24	
7674 7678	3.3	22.0	35.00	133.3	35.00	6.97E-04	-93.50	2.67	4.19E-03
7679	4.4	13.0	8.00	70.7	8.00	1.62E-03	-22.20	2.78	1.01E-02
7680	4.0	17.0	8.46	23.3	8.46	5.05E-04	-18.85	1.99	2.26E-03
7734	3.2	4.0	1.36	170.5	1.36	2.29E+02	-0.36	0.27	1.378.02
1137	4.0	1.1	0.16	300.0	0.16	3.53E-01	0.50	-3.20	
7738	4.2	1.3	0.19	300.0	0.19	2.93E-01	0.46	-2.47	3.90E-03
7756	3.5	13.0	13.33	50.0	13.33	6.86E-04	-33.67	2.53 2.57	8.98E-03
7757	3.4	5.0	6.00	51.0	6.00	1.56E-03	-15.40 -66.36	2.43	6.12E-03
7765	3.9	40.0	27.27	166.7	27.27	1.128-03	-479.00	3.68	7.00E-04
7766	4.0	41.0	130.00	60.0	130.00	8.45E-05 1.08E-03	-9.70	2.16	5.26E-03
7770	4.6	11.0	4.50	26.7 240.0	4.50 1.22	3.59E·02	-1,99	1.63	1.32E-01
7773	3.1	1.8	1.22 22.86	240.0	22.85	2.14E-04	-71.14	3.11	1.50E-03
7774	4.6	34.0 20.0	15.71	100.0	15.71	1.16E-03	-28.71	1.83	4.79E-03
7776	3.\$ 3.6	50.0	38.89	80.0	38.89	3.77E-04	-90.00	2.31	1.96E·03
7778	3.8	30.0	37.50	20.0	37.50	9.76E-05	-112.50	3.00	6.59E-04
7779 7782	4.2	45.0	40.00	15.0	40.00	6.86E-05	-123.00	3.08	4.75E-04
7784	3.0	20.0	18.75	133.3	18.75	1.30E-03	-36.25	1.93	5.66E-03
7785	3.2	32.0	25.00	100.0	25.00	7.32E-04	-48.00	1.92	3.166-03
7786	4.4	24.0	45.00	6.7	45.00	2.71E-05	-174.00	3.87	2.36E-04
7787	3.3	6.0	3.89	300.0	3.89	1.41E-02	-6.83	1.76	5.58E-02 2.13E-01
7793	5.2	1.1	\$.00	126.0	1.00	2.31E-02	-4.10	4.10	1.49E-03
7805	3.6	30.0	70.00	80.0	70.00	2.09E-04	-222.00	3.17 2.80	4.22E-04
7828	4.2	60.0	42.86	\$5.7	42.86	6.70E-05	-120.00 -24.29	2.27	5.23E-03
7845	3.2	10.0	10.71	60.0	10.71	1.02E-03	-26.00	2.40	9.12E-03
7846	3.6	13.0	10.83	100.0	10.83	1.69E-03 1.34E-03	-48.13	2.20	6.63E-03
8045	3.8	35.0	21.88	160.0	21.88 10.00	1.22E-03	-20.00	2.00	5.49E-03
8047	3.2	12.0	10.00	66.7 133.3	9.00	2.71E-03	-15,90	1.77	1.08E-02
8048	3.1	12.0	9.00 16.25	40.0	16.25	4.51E-04	-43.13	2.65	2.69E-03
8049	3.7	17.0 24.0	25.00	75.0	25.00	5.49E-04	-58.50	2.34	2.89E-03
8050	3.3 4.4	38.0	18.89	100.0	18.89	9.69E-04	-45.11	2.39	5.21E-03
8051 8052	3.6	30.0	16.67	200.0	16.67	2.208-03	-30.00	1.80	8.908-03
8052 8053	4.1	36.0	15.92	266.7	16.92	2.88E-03	-33,38	1.97	1.28E-02
8054	4.4	55.0	34.48	120.0	34.48	6.37E-04	-96.72	2.81	4.02E-03
8055	3.1	50.0	50.00	200.0	50.00	7.32E·04	-105.00	2,10	3.46E-03 5.07E-03
8056	3.2	36.0	35.56	200.0	35.56	1.03E-03	-77.78	2.19	7.12E-03
8057	3.0	24.0		200.0	22.22		-42,67 -112,50	1.92 3.00	2.338-03
8058	4.2	45.0	37.50				-0.25	0.47	1.12E-01
8059	2.2	0.9					-1,23	0.62	2.53E-02
8060	2.8	4.4					-27.33	3.73	6.28E-02
8061	4.0	2.0				The state of the s	√200.50	2.51	2.58E-03
8062	2.6	7.5					-717.10	23.90	4.37E+02
8063	24.0	2.9					-43.14	2.01	9.29E-03
8064	2.9	19.0 32.0				and the second second second	-83.14	2.24	3.72E-03
8065	3.1 2.9	40.0					-177.50	2.37	1.73E-03
8868	3.5	6.5					-5.17	1.55	5.74E-02
8068 8071	4.0	20.0			51.43		-185.71	3.61	2.25E-03
8114	3.0	26.0			28.33		-59.00	2.08	
8115	3.0	13.0		300.0			-23.00	1.92	
8116	3.1		A Company of the Comp	80.0		9.15E-04	-28.60	1.79	
8117	3.2	3.6	0.50				1.95	+3.90 1.84	
8118	3.1	22.0	17.50				-32.25 -1.24	0.54	
8119	2.4	4.3					-1.29 -31.80	1.77	
8120	3.1						-37.15	1.61	
8121	2.3						-9.67	1.45	
8122	3,4	13.0	8.67	150.0	, 0.0	, 4.724-00	2.3.		

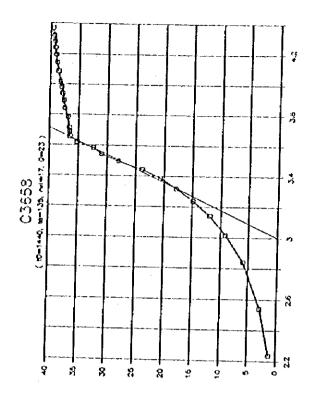
Table 1.4.1 (15/15) Analysis of existing recovery test data

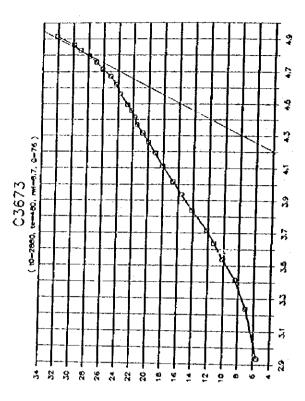
B/អ ព o	Χí	YI	Gredtent	Q (I/min)	delta s r	Transmissivity (m2/min)	Intercept	t*	Storage Coefficient
8126	3.0	0.0	46.42	20.0	46.42	7.89E-05	-139.25	3.00	5.32E-04
8134	2.5		17.50	200.0	17.50	2.09E-03	-30.85	1.76	8.30E-03
8135	4.4	40.0	28.57	60.0	28.57	3.84E-04	-85.71	3.00	2.59E-03
8138	2.8	15.0	11.67	240.0	11.67	3.17E-03	-17.67	1.51	1.28E-02
8243	4.6	22.0	17.50	20.0	17.50	2.09E-04	-58.50	3.34	1.57E-03
8245	3.0	1.9	17.50	150.0	17.50	1.57E-03	-50.60	2.89	1.02E-02
8247	4.2	30.0	42.86	15.0	42.86	6.41E-05	-150.00	3.50	5.04E-04
8248	3.5	24.0	11.11	100.0	11.11	1.65E-03	-14.89	1.34	4.97E-03
8256	3.7	30.0	\$3.08	3.3	23.08	2.64E-05	-55.38	2.40	1.43E-04
8258	4.4	40.0	43.75	30.0	43.75	1.26E-04	152.50	3.49	9.84E-04
8261	4.2	50.0	\$0.00	133.3	50.00	4.88E-04	-160.00	3.20	3.51E-03
8262 8296	3.2	2.4	1.40	150.0	1.40	1.96E-02	-2.08	1.49	6.56E-02
8430	3.5 5.0	7.0 12.0	5.45 5.83	100.0 63.0	5.45 5.83	3.36E-03 1.88E-Q3	-12.09 -17.17	2.22 2.94	1.67E-02 1.25E-02
8433	3.4	2.2	2.38	80.0	2.38	6.17E-03	-5.88	2.47	3.43E-02
8435	3.6	13.0	21.67	75.0	21.67	6.34E-04	-65.00	3.00	4.28E-03
8436	4.2	15.0	17.50	189.0	17.50	1.98E-03	-58.50	3.34	1.49E-02
8437	3.4	15.0	13.75	75.0	13.75	9.98E-04	-31.75	2.31	5.19E-03
8440	3.6	26.0	34.29	13.3	34.29	7.12E-05	-97.43	2.84	4.55E-04
8443	4.0	5.9	0.54	60.0	0.54	2.04E-02	3.75	-6.98	
8445				\$0.0					
8446	3.8	10.0	9.00	17.1	9.00	3.48E-04	-24.20	2.69	2.11E-03
8449	3.6	1.3	0.60	200.0	0.60	6.10E-02	-0.86	1.43	1.97E-01
8453	3.9	40.0	25.00	40.0	25.00	2.93E-04	-57.50	2.30	1.52E-03
8454	3,2	10.0	4.29	300.0	4.29	1.28E-02	-3.71	0.87	2.50E-02
8456	4.2	35.0	62.50	26.7	62.50	7.81E-05	-227.50	3.64	6.40E-04
8460	4.4	35.0	29.17	13.3	29.17	8.36E-05	-93.33	3.20	6.02E-04
8461 8462	4.6 3.9	30.0	23.33	8.0	23.33	6.28E-05	-77.33	3.31	4.68E-04
8465	4.8	20.0 7.0	13.33	20.0	13.33	2.75E-04	-32.00	2.40	1.48E-03
8474	4.4	80.0	8.75 83.33	5.0 70.0	8.75	1.05E-04	-35.00	4.00	9.415-04
8499	3.5	13.0	1.50	203.3	83.33 1.50	1.54E-04 2.48E-02	-286.67	3.44	1.19E-03
8503	3.4	8.0	10.00	110.0	10.00	2.01E-03	7.75	-5.17	
8697	3.8	20.0	15.58	130.0	15.56	1.53E-03	-26.00 -39.11	2.60	1.18E-02
8745	3.8	15.0	11.25	103.4	\$1.25	1.68E-03	-27.75	2.51 2.47	8.65E-03
8883	4.2	1.2	0.63	155.3	0.83	3.41E-02	-2.30	2.76	9.34E-03 2.12E-01
8887	4.2	103.0	103.00	55.0	103.00	9.77E-05	-329.60	3.20	7.04E-04
8892	4.7	7.4	4.47	14.2	4.47	5.81E-04	-13.59	3.04	3.98E-03
8895	4.4	5.0	1.94	30.0	1.94	2.82E-03	-3.56	1.83	1.16E-02
8898	4.4	18.0	12.00	13.3	12.00	2.03E-04	-34.80	2 90	1.33E-03
8899	3.2	0.5	0.08	200.0	0.08	4.88E-01	0.27	3.60	
8905 8900	3,8 3,2	18.0	12.73	20.0	12.73	2.88E-04	-30.36	2.39	1.54E-03
8904	4.6	7.0	3.75	13.3	3.75	6.51E-04	•5.00	1.33	1.95E-03
8907	4.6	3.2 19.0	1.38	40.0	1.38	5.32E-03	-3.13	2.27	2.72E-02
8909	5.0	36.0	11.67 18.57	30.0	11.67	4.71E-04	-34.67	2.97	3.15E-03
8918	2.7	1.0	0.18	20.0 176.0	18.57	1.97E-04	-86.86	3.60	1.608-03
8920	4.6	28.0	35.00	8.0	0.18 35.00	1.79E-01 4-18E-05	0.51	-2.86	1
8923	4.0	34.0	34.00	18.3	34.00	9-83E-05	-133.00	3.80	3.58E-04
8929	3.3	9.5	10.00	150.0	10.00	2-75E-03	-102.00	3.00	6.64E-04
8984	3.8	1.8	0.40	73.6	0.40	3.37E-02	-23.50		1.45E-02
8966	4.3	19.0	10.63	166.7	10.83	2.82E-03	0.28 -27.58	-0.70	
8988	3.2	11.0	9.70	120.0	9.70	2.26E-03	-27.58	2.55	1.61E-02
8990	2.5	6.2	2.08	33.3	2.08	2.93E-03	1.83	2.07	1.05E-02
8993	4.0	9.0	12.50	13.3	12.50	1.95E-04	-41.00	-0.88 3.28	4
8994	2.4	16.0	14.00	1041.6	14.00	1.36E-02	-17.60	1.26	1.44E-03
8995	2.0	9.0	12.00	133.3	12.00	2.03E-03	15.00	1.25	3.85E-02
8996	2.8	11.0	11.11	676.7	11.11	1.11E-02	-20.11	1.81	5.72E-03 4.54E-02
8997	4.6	13.0	4.79	133.3	4.79	5.09E-03	-9.04	1.89	4.54E-02 2.16E-02
8999	2.6	4.0	3.75	83.3	3.75	4.07E-03	-5.75	1.53	1.40E-02

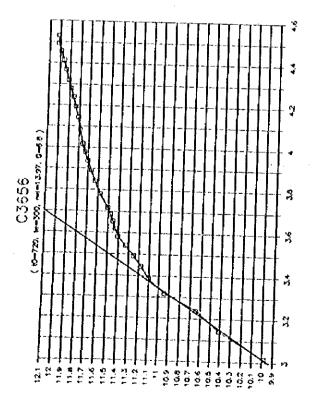
Table I.4.2 Analysis of recovery test data obtained in the NWMP Study

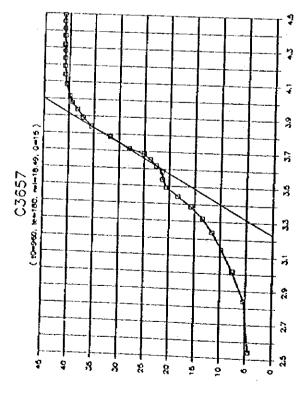
(a,b) = (a,b) + (a,b

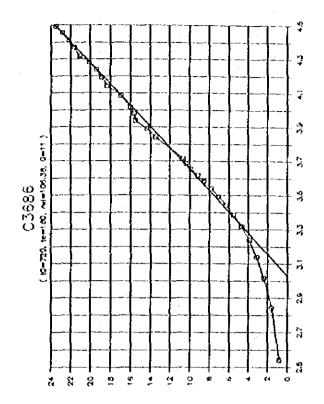
B/H No	X1	¥1	Gradient	Q (Wmin)	deita s r	Transmisivity (m2/min)	Intercept	t*	Storage Coefficient
							4		
3360	2.6	12	25	91	25.00	6.66E-04	-53.00	2.12	3.18E-03
3463	2.4	1.2	1.25	27	1.25	3.95E-03	-1.80	1.44	1.28E-02
3541	2.4	5	6.66667	87	6,67	2.39E-03	-11.00	1.65	8.87E-03
3625	2	2.6	1.5	152	1.50	1.85E-02	-0.40	0.27	1.11E-02
3660	3.6	7	4.16667	111	4.17	4.88E-03	-8.00	1.92	2.11E-02
3682	2	1.3	1.16667	300	1.17	4.71E-02	-1.03	0.89	9.38E-02
3695	2.2	1	2.5	7.1	2.50	5.20E-03	-4.50	1.80	2.11E-02
3813	4.8	1.2	23.8889	36	23.89	2.76E-04	-113.47	4.75	2.95E-03
3861	3	6	11.6667	36	11.67	5.65E-04	-29.00	2.49	3.16E-93
3899	3.2	15	9.375	219	9.38	4.28E-03	-15.00	1.60	1.54E-02
3959	3	2	16.6667	30	16.67	3.29E-04	-48.00	2.88	2.13E-03
4130	3.6	0.02	0.075	402	0.08	9.81E-01	+0.25	3.33	
4270	2.2	5.6	6	134	6.00	4.09E-03	-7.60	1.27	1.16E-02
4303	4	8	15	58	15.00	7.08E-04	-52.00	3.47	5.52E-03
4415	2.8	0.25	1.33333	210	1.33	2.88E-02	-3.48	2.61	1.69E-01
4422	3.4	10	7 5	40	75,00	9.76E-05	-245.00	3.27	7.17E-04
4442	2.6	3	3.33333	178	3.33	9.77E·03	-5.67	1.70	3.74E-02
4573	4.2	0.28	0.35	143	0.35	7.48E-02	-1.19	3.40	5.72E-01
4729	3	3	1.08333	177	1.08	2.99E-02	-0.25	0.23	1.55E-02
5278	3.8	Q	30	40	30.00	2.44E-04	-114.00	3.80	2.09E-03
5627	3.8	2.9	0.54167	163	0.54	5.51E-02	0.84	-1.55	
5795	2	7	1 5	148	15,00	1.81E-03	-23.00	1.53	6.23E-03
5894	2	5	13.3333	337	13.33	4.63E-03	-21.67	1.63	1.69E-02
6072	2.3	2.38	0.18571	279	0.19	2.75E-01	1.95	-10.52	
6084	2	0.94	0.19	234	0.19	2.25E-01	0.56	-2.95	
6498	4.2	6	36.6667	13	36.67	6.49E-05	-148.00	4.04	5.89E-04
6507	3	3. i	0.75	272	0.75	6.64E-02	0.85	-1.13	
6975	3.6	3	7	152	7.00	3.97E-03	-22.20	3.17	2.84E-02
7064	2.4	14	12.5	108	12.50	1.58E-03	-16.00	1.28	4.55E-03
7451	3	1.64	0.2	41	0.20	3.75E-02	1.04	-5.20	
7581	4.4	2.9	2.25	233	2.25	1.90E-02	•7.00	3.11	1.33E-01
7804	3.8	0	56.25	8	56.25	2.60E.05	-213.75	3.80	2.23E-04
7878	2.8	5	6.25	4 5	6.25	1.32E-03	-12.50	2.00	5.93E-03
8062	3.6	2,01	0.5	91	0.50	3.33E-02	0.21	-0.42	1 645 00
8298	2.3	14	30	65	30.00	3.97E-04	-55.00	1.83	1.64E+03
8810	3.2	2.5	1.75	102	1.75	1.07E-02	-3.10	1.77	4.25E-02
8923	3.4	24	17.5	26	17.50	2.72E-04 4.89E-04	-35.50	2.03 2.29	1.24E-03
8981	2.4	10	87.5	234	87.50	9.89E-V9 8.45E-03	200.00	1.09	2.52E-03 2.08E-02
9002	2.2	6	5.41667	250	5.42		•5.92		
9170	3.4	10	5.5	22	55.00	7,32E-05	-177.00	3.22	5.30E-04
9180	4	2	3	108	3.00	6,59E-03	-10.00	3.33	4.94E-02
9400	2.2	2	4.55	59	4.55	2.37E-03	-8.01	1.76	9.40E-03

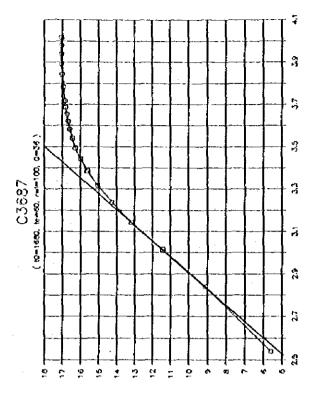


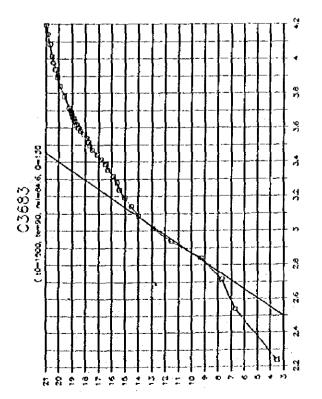


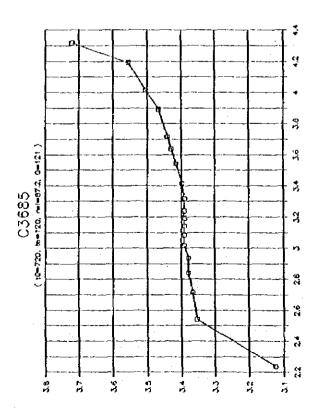


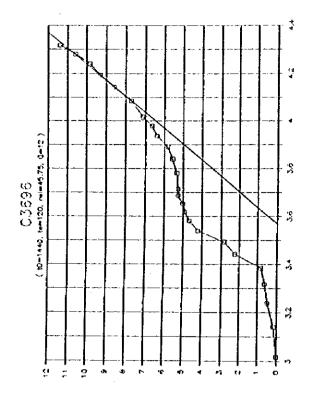


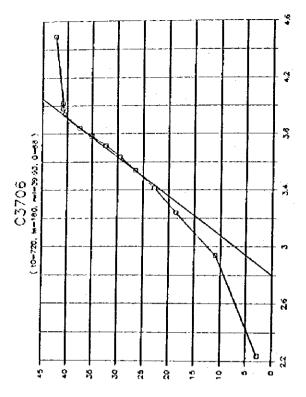


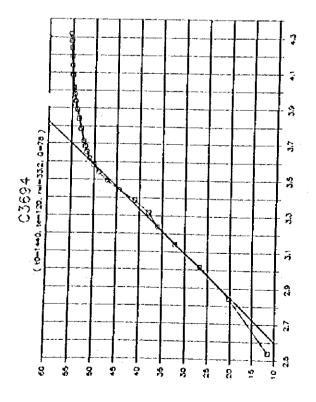


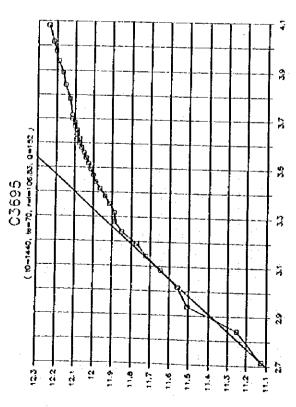


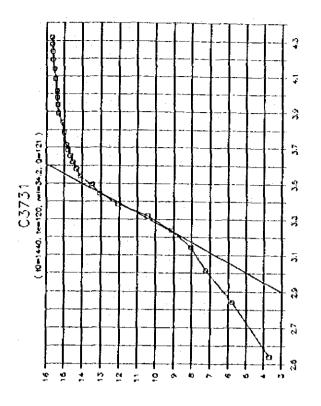


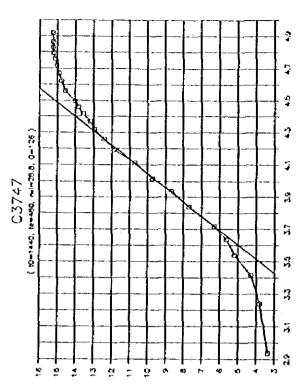


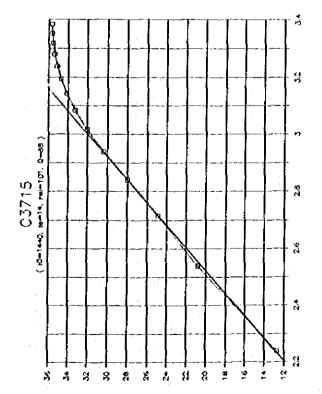


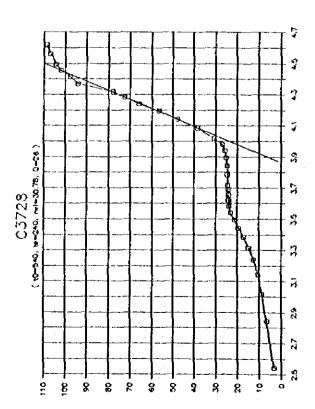


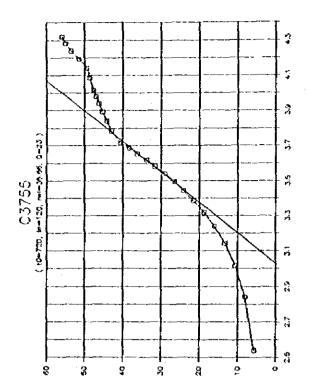


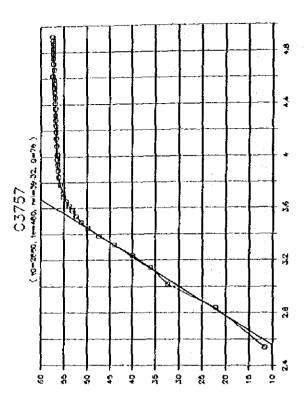


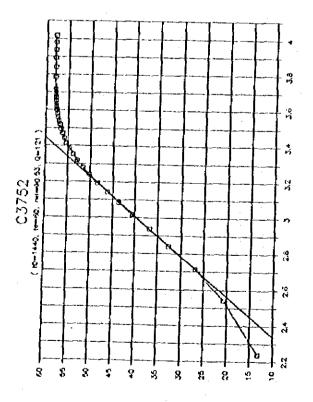


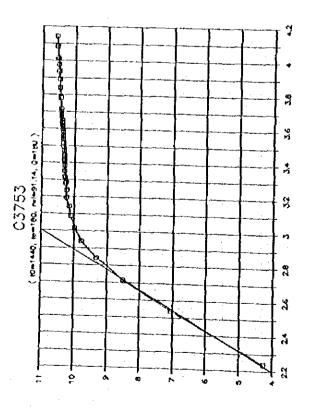


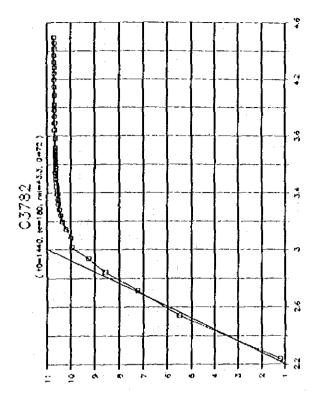


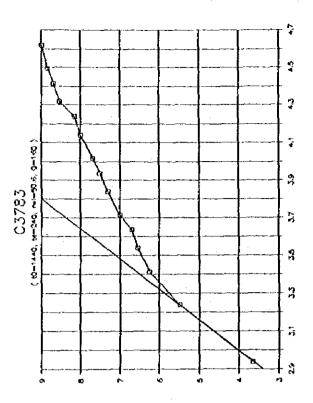


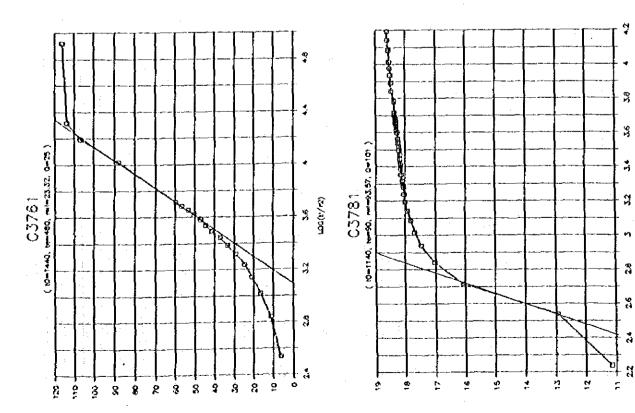


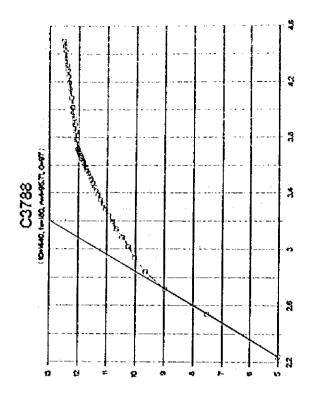


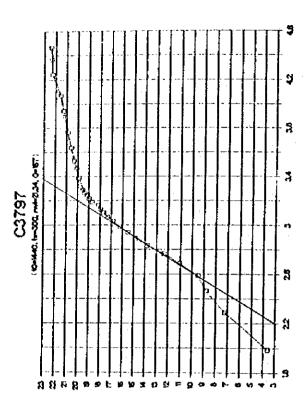


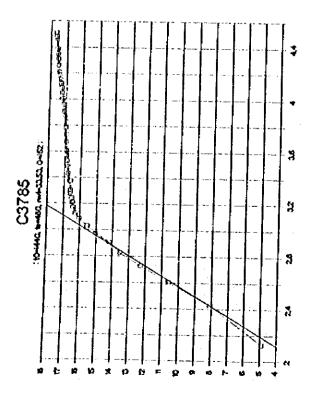


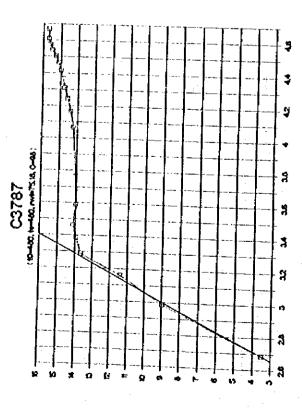


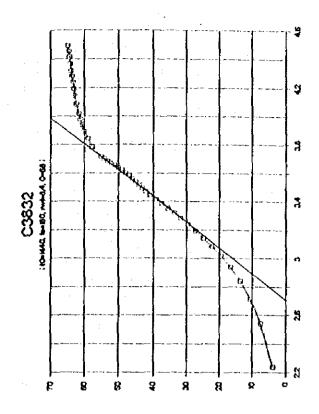


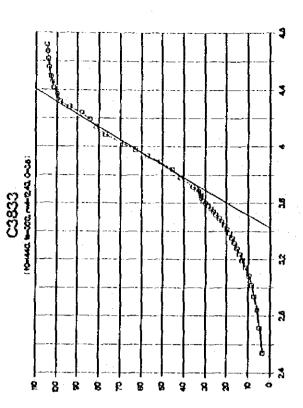


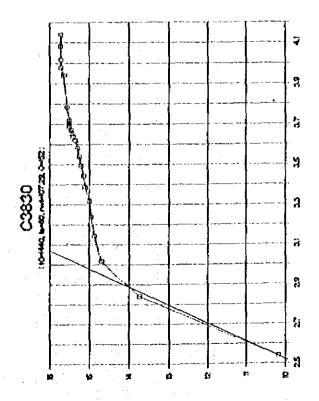


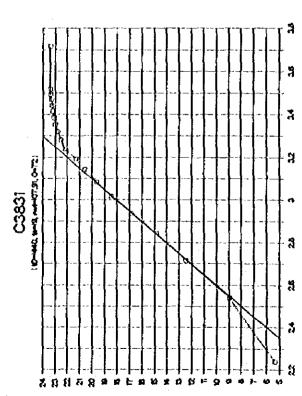


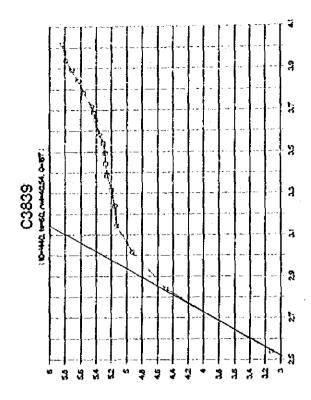


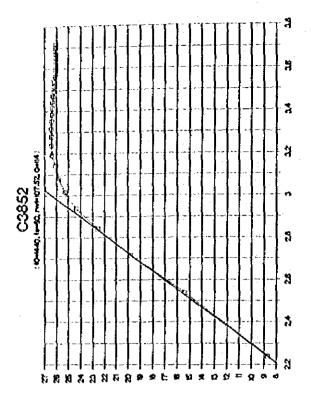


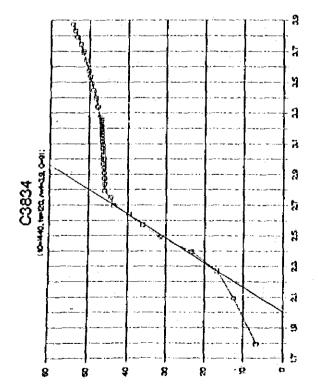


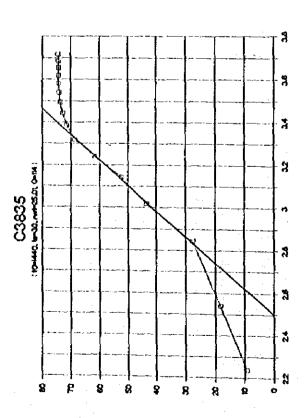


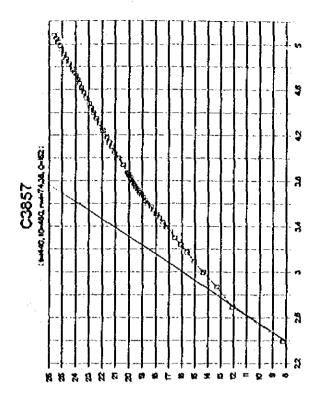


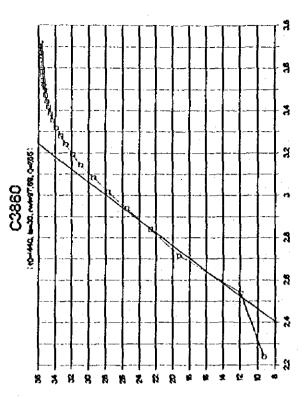


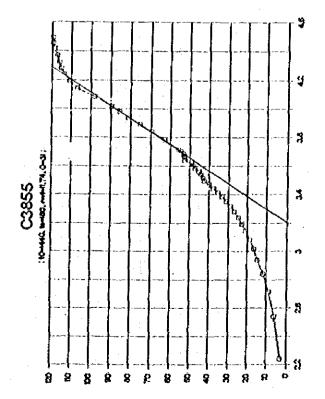


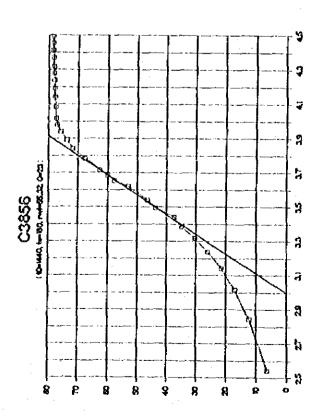


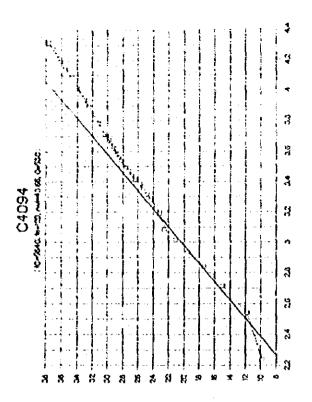


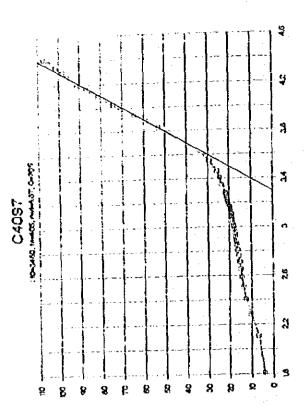


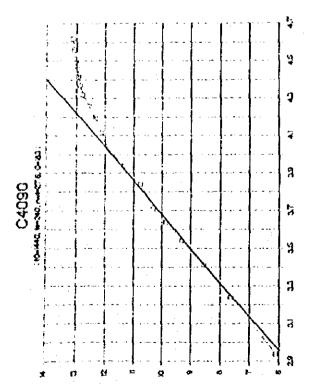


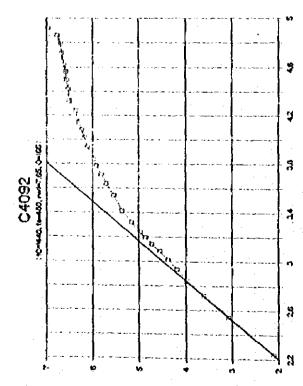


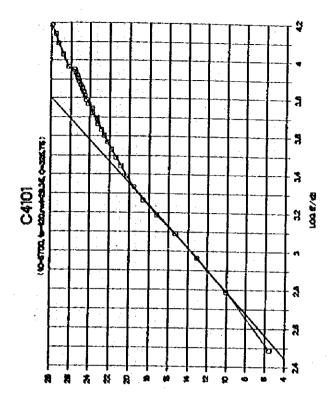


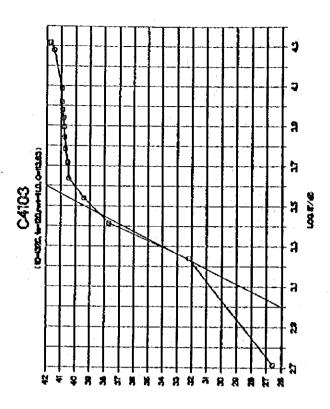


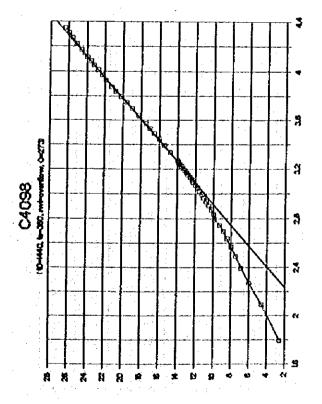


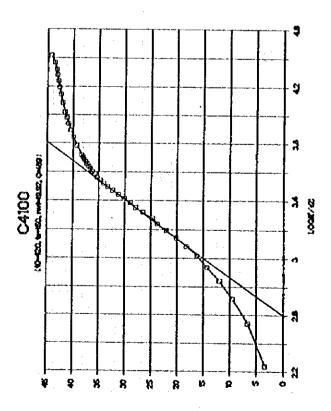


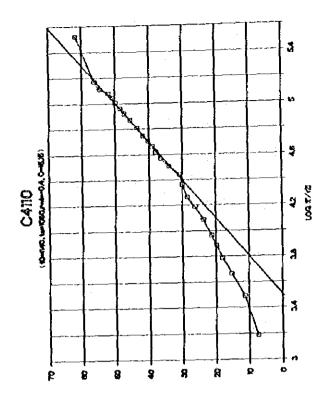


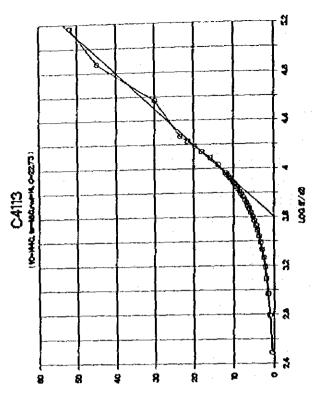


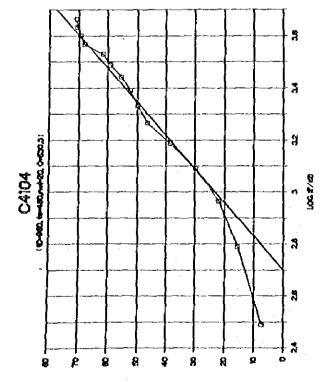


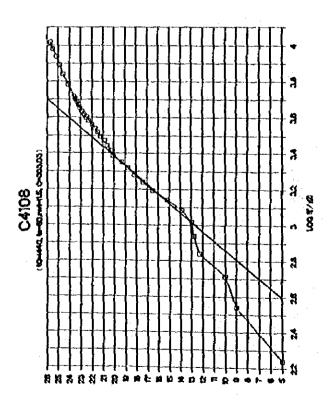


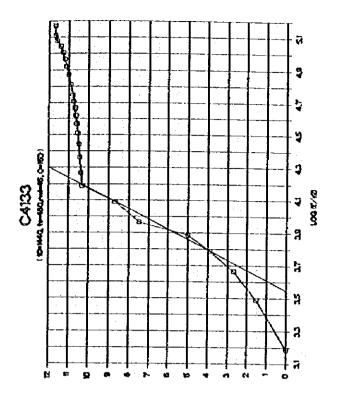


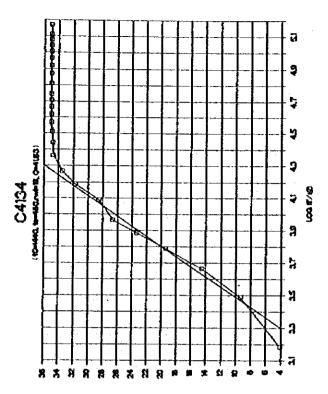


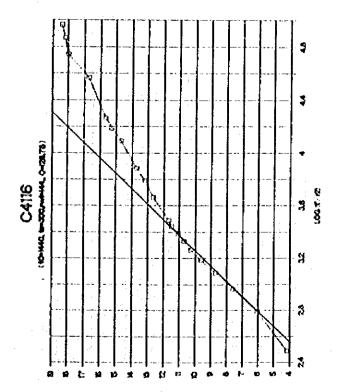


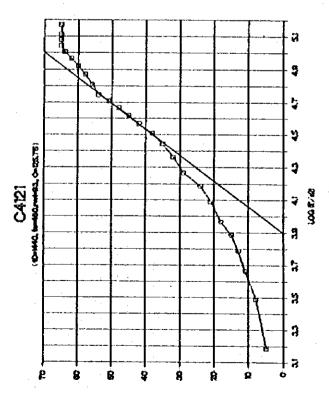


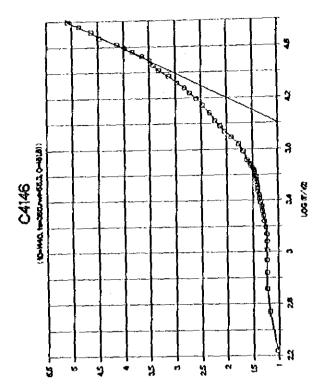


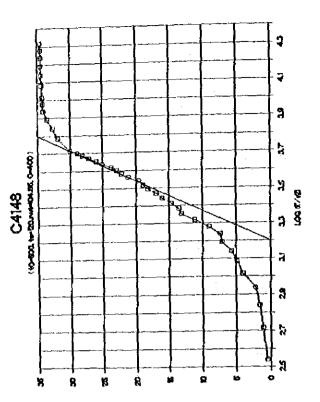


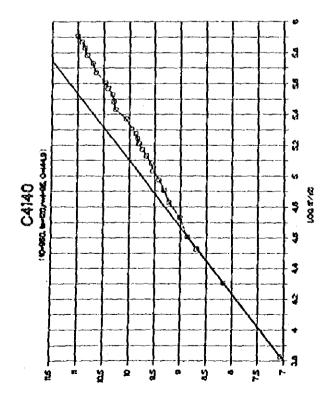


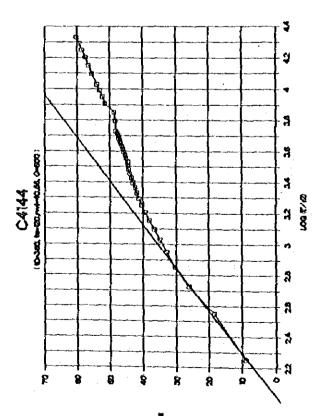




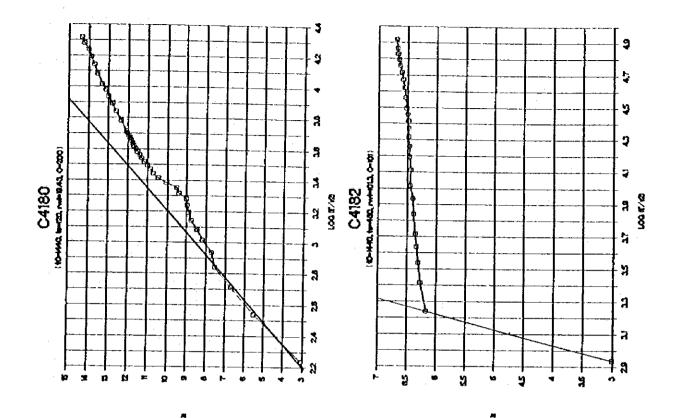


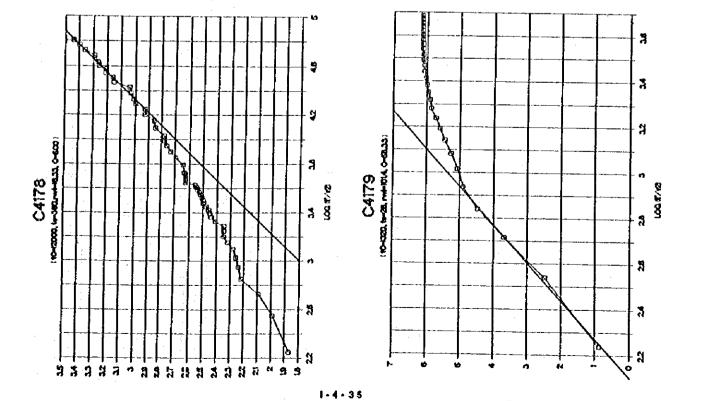


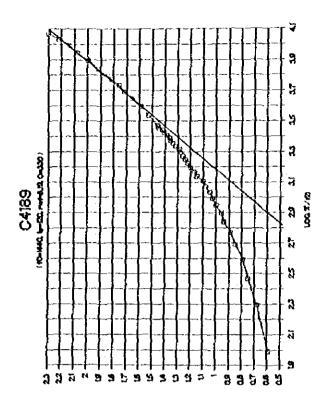


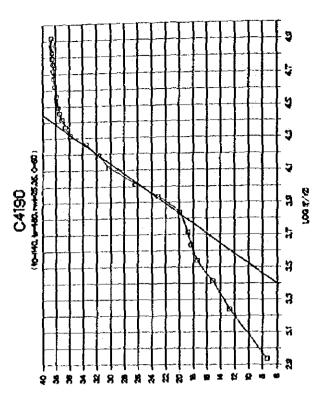


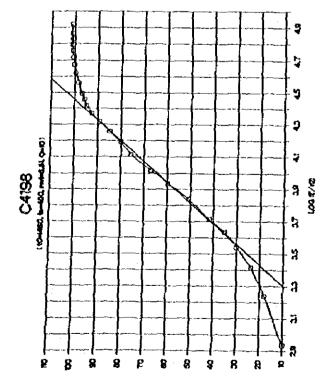
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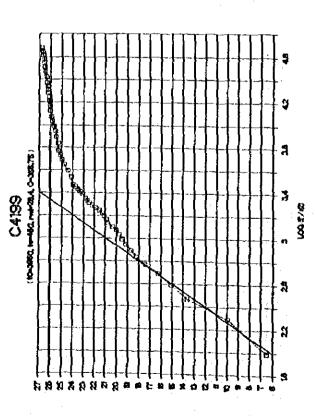


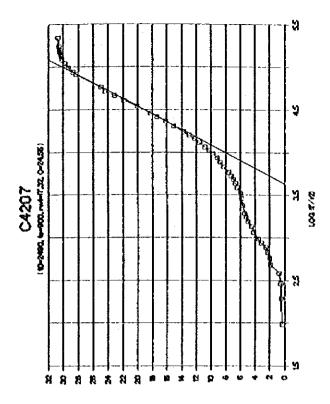


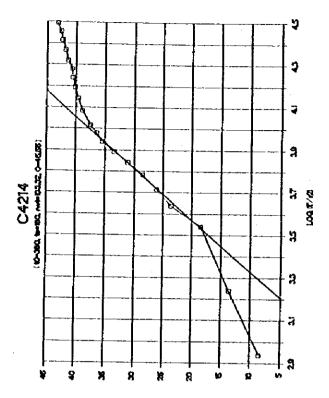


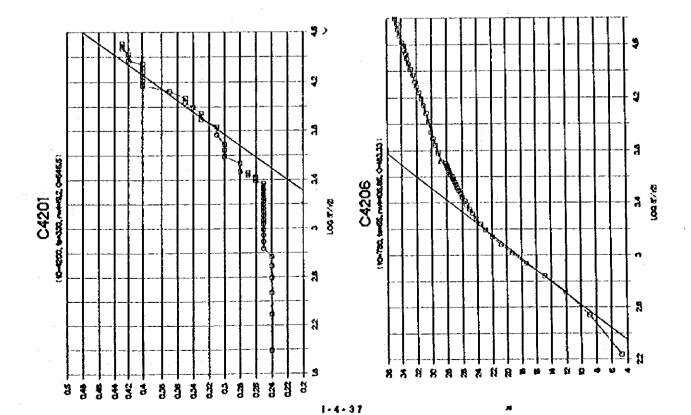


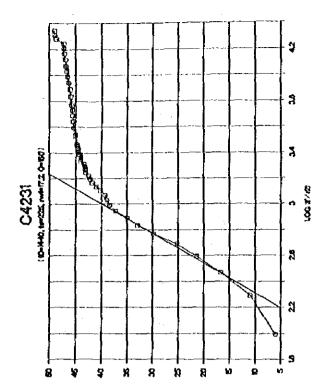
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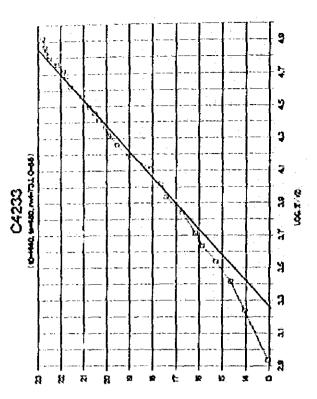


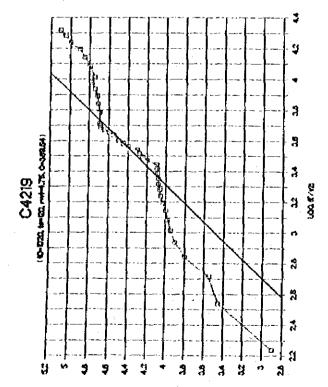


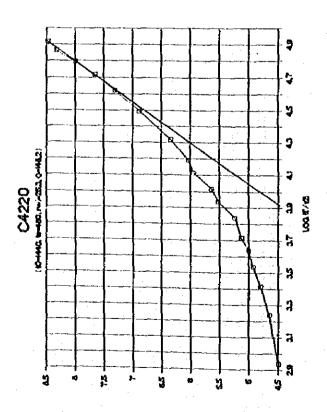


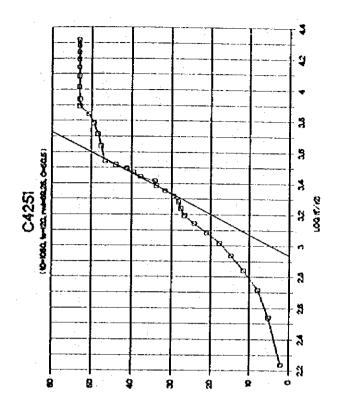


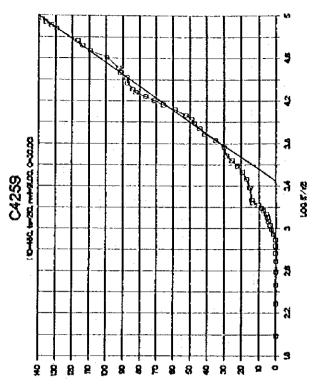


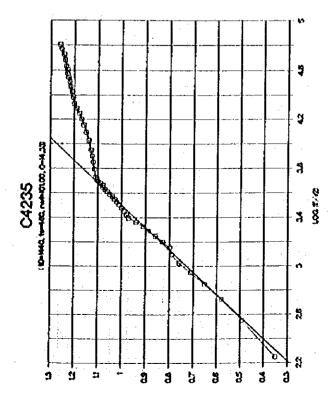


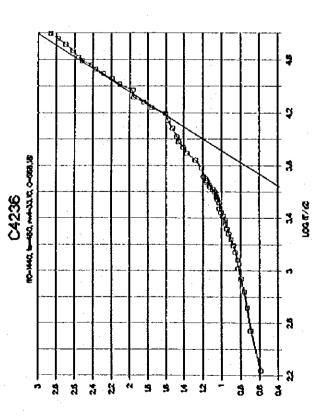


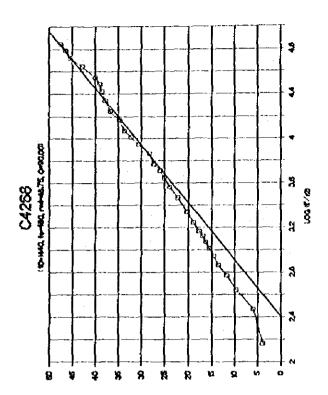




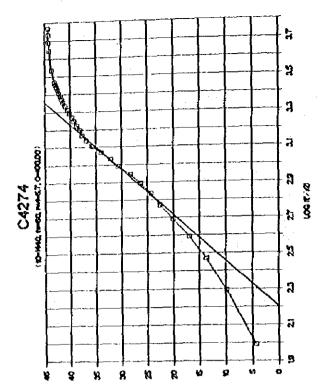


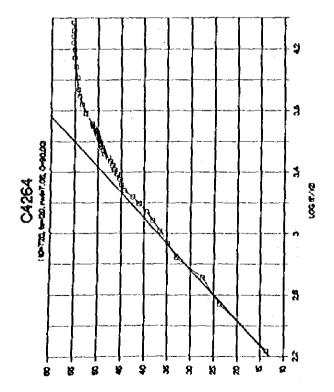


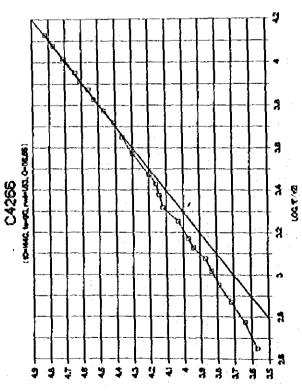


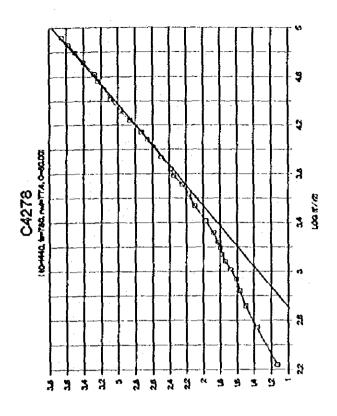


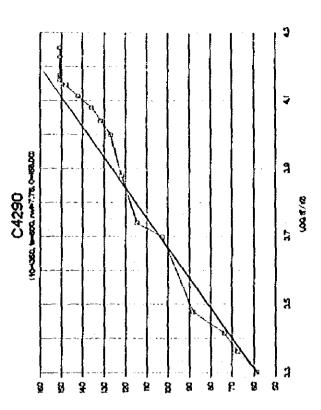
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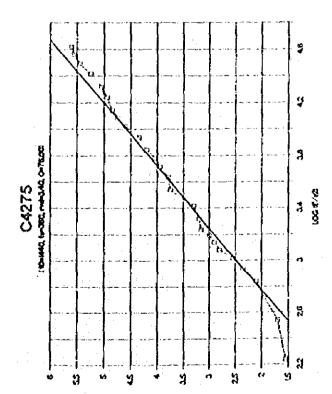


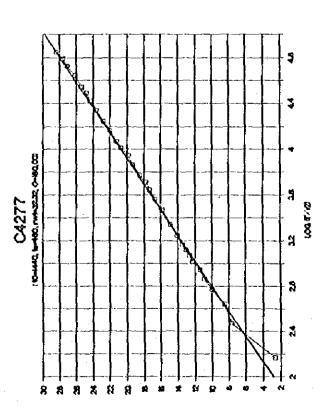


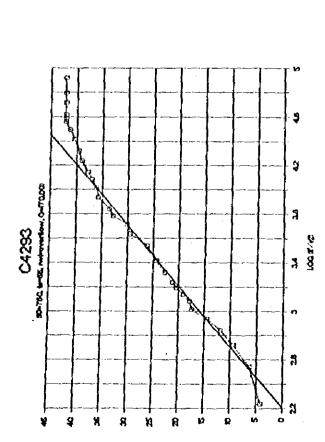






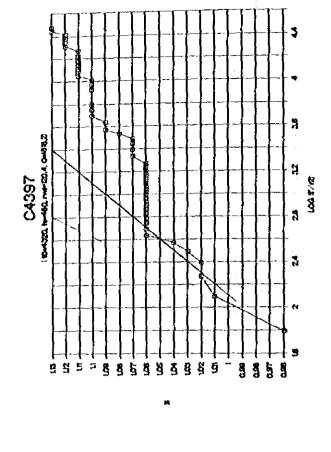






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