

APPENDIX D

**FIELD RECORDS OF MONITORING WELL
AND PIEZOMETER DEVELOPMENT**

WELL DEVELOPMENT FIELD RECORD

JOB NAME BCC/RFI/NY
 DEVELOPED BY KFN/DJM
 STARTED DEVEL 5-9-96 1 1515
 DATE TIME
 W.L. BEFORE DEVEL 20.83 BTOE 5-9-96 1515
 DEPTH DATE TIME
 WELL DEPTH: BEFORE DEVEL 63.84 BTOE
 STANDING WATER COLUMN (FT.) 43.01
 SCREEN LENGTH 5 feet

JOB NO. 963-9117 WELL NO. RFI-16
 DATE OF INSTALL 5/2/96 SHEET 1 OF 1
 COMPLETED DEVEL 5/29/96 1 14:00
 DATE TIME
 AFTER DEVEL N/A 1 1
 DEPTH DATE TIME
 AFTER DEVEL 63.84 WELL DIA. (In) 2
 STANDING WELL VOLUME 7.02 gal.
 DRILLING WATER LOSS N/A gal.

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS				REMARKS
		SPEC. COND. (umhos/cm)	TEMP. (C)	pH (s.u.)	OTHER	
5-9-96/1515	0.2	7.20	15.0	12.8		Initial, Highly Turbid, Brown
5-9-96/1535	7.5	6.80	13.0	12.7		Highly Turbid, Brown
5-9-96/1620	9.0	6.50	13.0	12.7		" "
5/10/96/0820	10.0	7.40	12.0	13.0		Mod. Turbid, Light Brown
5/10/96/0840	14.0	7.1	12.0	12.9		Sl. Turbid, " "
5/11/96/1520	16.0	6.40	12.0	12.8		U.S.I. Turbid, purged dry
5-15-96/1430	24.0	5.20	12.0	12.7		Clear, purged dry
5-23-96/1335	33.0	4.20	13.0	12.6		Clear, purged dry
5/24/96 9:50	37.0	3.70	12.0	12.7		Clear, purged dry
5/28/96 13:25	44.0	2.9	12.0	12.7		Clear
13:45	47.0	2.8	12.0	12.7		Clear Purged dry
5/29/96 14:00	51.0	2.6	12.0	12.5		clear
	51.0	= TOTAL VOLUME REMOVED (gal.)				

DEVELOPMENT METHOD: Teflon Bailor, Nylon rope

NOTES:



WELL DEVELOPMENT FIELD RECORD

JOB NO. 963-9117 WELL NO. RFI-17

DATE OF INSTALL. 5/17/96 SHEET 1 OF 1

COMPLETED DEVEL. 5/24/96 1 14:55

AFTER DEVEL. N/A 1 1

AFTER DEVEL. 14.09 WELL DIA. (In) 2

STANDING WELL VOLUME 1.3 gal.

DRILLING WATER LOSS N/A gal.

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS				REMARKS
		SPEC. COND. (umhos/cm)	TEMP. (C)	pH (s.u.)	OTHER	
5/23/96 15:50	0	1.20	9	7.7		Initial, moderate turbidity, brown
15:55	1.3	1.20	9	7.6		Moderate turbidity, brown
16:00	2.6	1.30	9	7.6		" "
16:03	3.9	1.20	9	7.7		" "
16:06	5.2	1.20	9	7.7		" , Burped Dry
5/24/96 14:52	6.5	1.8	10	7.9		Moderate turbidity, brown
14:55	7.8	1.1	10	7.9		Mod. turbidity, brown, Purged Dry
	7.8	= TOTAL VOLUME REMOVED (gal.)				

Stainless Steel Baler - Nylon Rope

NOTES:



WELL DEVELOPMENT FIELD RECORD

JOB NAME Bcc/ RFI/ NY

DEVELOPED BY KFM / DJM

STARTED DEVEL. 5-10-96 1

DATE	TIME
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W1 BEFORE DEVEL 21:47 15-10-96/1008

BTOR

DEPTH	DATE	TIME
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WELL DEPTH: BEFORE DEVEL. 64.36 BTOR

STANDING WATER COLUMN (FT.) 42.89

SCREEN LENGTH : 5 FT

JOB NO. 963-9117 WELL NO. RFI-23D

DATE OF INSTALL 5/9/96 SHEET 1 OF 1

COMPLETED DEVEL. 5/28/96 1 13:00

DATE TIME

AFTER DEVEL. N/A / /

DEPTH	DATE	TIME
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AFTER DEVEL. 14.36 WELL DIA. (In) 2

STANDING WELL VOLUME 7.00 gal.

DRILLING WATER LOSS N/A gal.

[illegible]

DEVELOPMENT METHOD:

Jeffon Bailer dropped in well at 40 gal

NOTES:

WELL DEVELOPMENT FIELD RECORD

JOB NAME BCC/RFI/NY

DEVELOPED BY KEN/DTM

STARTED DEVEL. 5-23-96 /

W.L. BEFORE DEVEL 10.55 15/2/6 1245

DEPTH 1510m DATE TIME 31.43 1510m
WELL DEPTH: BEFORE DEVEL.

STANDING WATER COLUMN (FT.) 20.88

SCREEN LENGTH 10 ft.

JOB NO. 963-9117 WELL NO. RFI-24

DATE OF INSTALL. 5/22/96 SHEET 1 OF 1

COMPLETED DEVL. 5/24/96 / 10:40
DATE TIME

AFTER DEVEL. N/A / /
DEPTH DATE TIME

AFTER DEVEL. 31.43 WELL DIA. (In) 2

STANDING WELL VOLUME 3.4 gal.

DRILLING WATER LOSS ~ 100 gal.

[illegible]

DEVELOPMENT METHOD:

Stainless Steel barter, Nylon Rope

NOTES:



WELL DEVELOPMENT FIELD RECORD

JOB NO. 963-9117 WELL NO. RFL-PZ18
DATE OF INSTALL 5/9/96 SHEET 1 OF 1
COMPLETED DEVEL 5/29/96 1 10:19
DATE TIME
AFTER DEVEL N/A 1 1
DEPTH DATE TIME
AFTER DEVEL 16.24 WELL DIA. (In) 2
STANDING WELL VOLUME 1.6 gal.
DRILLING WATER LOSS N/A gal.

DEVELOPMENT METHOD: PVC Tailer, Nylon Rope

NOTES:



WELL DEVELOPMENT FIELD RECORD

JOB NO. 963-9117 WELL NO. RFI-P220
DATE OF INSTALL 5/14/96 SHEET 1 OF 1
COMPLETED DEVEL 6/3/96 1 14:06
DATE TIME
AFTER DEVEL N/A 1 1
DEPTH DATE TIME
AFTER DEVEL 30.1 WELL DIA. (in) 2
STANDING WELL VOLUME 3.0 gal.
DRILLING WATER LOSS N/A gal.

DEVELOPMENT METHOD: Teflon bailer, nylon rope

NOTES:

WELL DEVELOPMENT FIELD RECORD

JOB NAME BCL/RFI/NY
 DEVELOPED BY S. VRIESEN
 STARTED DEVEL. 6/10/97 1 1530
 DATE TIME
 W.L. BEFORE DEVEL. 1.47' BDR 16/10/97 1 1530
 DEPTH DATE TIME
 WELL DEPTH: BEFORE DEVEL. 20.43' BDR
 STANDING WATER COLUMN (FT.) 18.96
 SCREEN LENGTH 10'

JOB NO. 963-9117 WELL NO. RFI-37
 DATE OF INSTALL. 6/2/97 SHEET 1 OF 1
 COMPLETED DEVEL. 6/13/97 1 0845
 DATE TIME
 AFTER DEVEL. 1 1
 DEPTH DATE TIME
 AFTER DEVEL. WELL DIA. (In) 2
 STANDING WELL VOLUME 3.09 gal.
 DRILLING WATER LOSS NA gal.

	DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS				REMARKS
			SPEC. COND. (umhos/cm)	TEMP. (C)	pH (s.u.)	OTHER	
	6/10/97 1545	0.2	2.20	14	6.7		INITIAL, MOD. TURBID
①	6/10/97 1555	3.2	2.10	14	6.8		MODERATELY TURBID
②	6/11/97 1315	6.4	—	15	6.9		MODERATELY TURBID
③	6/11/97 1345	9.6	2.60	15	7.0		HIGHLY TURBID, PURGED DRY
④	6/12/97 0825	12.4	4.30	14	6.7		MODERATELY TURBID
⑤	6/12/97 0840	15.5	2.40	14	7.1		HIGHLY TURBID
	6/12/97 0925	16.65	2.60	14	7.1		HIGHLY TURBID, PURGED DRY
⑥	6/13/97 0820	18.65	3.50	14	6.7		MODERATELY TURBID
⑦	6/13/97 0845	21.65	3.40	14	7.1		MODERATELY TURBID
		21.65	= TOTAL VOLUME REMOVED (gal.)				

DEVELOPMENT METHOD: Polyethylene bailer, Nylon rope

NOTES:

WELL DEVELOPMENT FIELD RECORD

JOB NAME BCC/RFI/NY
 DEVELOPED BY S. VRIESEN
 STARTED DEVEL. 6/9/97 1 1445
 DATE TIME
 W.L. BEFORE DEVEL. 11.22 BDC 16/9/97 1 1445
 DEPTH DATE TIME
 WELL DEPTH: BEFORE DEVEL. 28.31' BDC
 STANDING WATER COLUMN (FT.) 17.09
 SCREEN LENGTH 10'

JOB NO. 963-9117 WELL NO. RFI-41
 DATE OF INSTALL. 5/30/97 SHEET 1 OF 1
 COMPLETED DEVEL. 6/10/97 1 1100
 DATE TIME
 AFTER DEVEL. 11.24 BDC 16/10/97 1 1100
 DEPTH DATE TIME
 AFTER DEVEL. 28.31' BDC WELL DIA. (In) 2
 STANDING WELL VOLUME 2.79 gal.
 DRILLING WATER LOSS NA gal.

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS				REMARKS
		SPEC. COND. (umhos/cm)	TEMP. (C)	pH (s.u.)	OTHER	
6/9/97 1510	0.2	4.60	13	5.8		INITIAL, HIGHLY TURBID
① 6/9/97 1520	2.8	4.40	13	6.0		HIGHLY TURBID
② 6/9/97 1530	5.6	4.50	13	6.1		HIGHLY TURBID
③ 6/10/97 1000	8.4	3.20	13	6.1		MODERATELY TURBID
④ 6/10/97 1015	11.2	4.00	13	6.1		MODERATELY TURBID
⑤ 6/10/97 1045	14.0	3.20	13	6.1		MODERATELY TURBID
	14.0	= TOTAL VOLUME REMOVED (gal.)				

DEVELOPMENT METHOD:

Polyethylene bailer, Nylon rope

NOTES:

WELL DEVELOPMENT FIELD RECORD

JOB NAME REC/REF/NY
 DEVELOPED BY SAV
 STARTED DEVEL 6/5/97 1 1250
 DATE TIME
 W.L. BEFORE DEVEL 6.52 STOR 6/5/97 1 1300
 DEPTH DATE TIME
 WELL DEPTH: BEFORE DEVEL 10.98 STOR
 STANDING WATER COLUMN (FT.) 4.46
 SCREEN LENGTH 5

JOB NO. 263-9117 WELL NO. RF1-12
 DATE OF INSTALL 6/3/97 SHEET 1 OF 1
 COMPLETED DEVEL 6/6/97 1 1250
 DATE TIME
 AFTER DEVEL 9.16 STOR 6/6/97 1250
 DEPTH DATE TIME
 AFTER DEVEL 10.96 STOR WELL DIA. (in) 2
 STANDING WELL VOLUME 0.73 gal.
 DRILLING WATER LOSS NA gal.

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS				REMARKS
		SPEC. COND. (umhos/cm)	TEMP. (C)	pH (s.u.)	OTHER	
6/5/97 1305	0.2	1.20	12	6.8		INITIAL, MOD TURBID
6/5/97 1330	1.0	1.20	12	7.0		HIGHLY TURBID, BROWN
6/5/97 1340	1.6	1.20	12	7.1		HIGHLY TURBID, BROWN
6/5/97 1350	1.8	1.30	12	6.8		HIGHLY TURBID, BROWN
6/5/97 1415	2.2	1.20	12	6.9		HIGHLY TURBID, BROWN
6/5/97 1425	2.8	1.20	13	7.0		HIGHLY TURBID, BROWN
6/5/97 1435	2.9	1.20	14	7.1		HIGHLY TURBID, PURGED DEY
6/6/97 0830	3.7	1.20	12	7.0		MODERATELY TURBID
6/6/97 0835	3.9	1.20	14	7.2		MODERATELY TURBID, PURGED DEY
6/6/97 1230	4.7	1.50	14	7.2		MODERATELY TURBID
6/6/97 1240	5.5	1.50	14	7.1		MODERATELY TURBID
5.5		= TOTAL VOLUME REMOVED (gal.)				

DEVELOPMENT METHOD:

Polyethylene bailer, Nylon rope

NOTES:

WELL DEVELOPMENT FIELD RECORD

JOB NAME RFI/RFI/ NY
 DEVELOPED BY SAV
 STARTED DEVEL 6/6/97 1 1235
 DATE TIME
 W.L. BEFORE DEVEL 5.27' stor 16/4/91 1235
 DEPTH DATE TIME
 WELL DEPTH: BEFORE DEVEL 15.94' stor
 STANDING WATER COLUMN (FT.) 11.67
 SCREEN LENGTH 5'

JOB NO. 963-9117 WELL NO. RFI-43
 DATE OF INSTALL 6/2/97 SHEET 1 OF 1
 COMPLETED DEVEL 6/11/97 1 0805
 DATE TIME
 AFTER DEVEL 8.23' stor 16/11/97 1 0805
 DEPTH DATE TIME
 AFTER DEVEL 15.94' stor WELL DIA. (In) 2
 STANDING WELL VOLUME 1.90 gal.
 DRILLING WATER LOSS NA gal.

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS				REMARKS
		SPEC. COND. (umhos/cm)	TEMP. (C)	pH (s.u.)	OTHER	
6/6/97 1320	0.2	2.10	13	6.5		INITIAL, HIGHLY TURBID
① 6/6/97 1330	2.2	2.20	11	6.5		HIGHLY TURBID, BROWN
6/6/97 1350	3.4	2.20	15	6.6		HIGHLY TURBID, PURGED DRY
② 6/9/97 0950	3.8	2.50	12	6.6		MODERATELY TURBID
③ 6/9/97 1000	5.8	2.60	13	6.6		HIGHLY TURBID
6/9/97 1020	6.4	2.50	17	6.8		HIGHLY TURBID, PURGED DRY
④ 6/9/97 0810	7.6	2.40	11	6.7		MODERATELY TURBID
6/10/97 0820	9.1	2.40	11	6.8		MOD. TURBID, PURGED DRY
⑤ 6/11/97 0800	9.5	-	11	6.7		SLIGHTLY TURBID
9.5		= TOTAL VOLUME REMOVED (gal.)				

DEVELOPMENT METHOD:

Polyethylene bailer, Nylon rope

NOTES: • CONDUCTIVITY METER STOPPED FUNCTIONING ON 6/11/97

APPENDIX E

HYDRAULIC TESTING RESULTS

RISING HEAD TEST

WELL RFI-16
 DATE OF TEST: 5/30/96 THROUGH 6/3/96

STATIC WATER DEPTH = 22.07 FEET BELOW TOC
 STANDPIPE DIAMETER = 2.00 INCHES
 SANDPACK DIAMETER = 8.00 INCHES
 TOP OF SATURATED SAND = 58.20 FEET BELOW TOC
 BOTTOM OF SANDPACK = 64.00 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
14	57	0	0.00	61.70	-39.63	1.000 *	0.0000
14	58	0	1.00	61.60	-39.53	0.997	-0.0011
15	0	0	3.00	61.55	-39.48	0.996	-0.0016
15	47	0	50.00	60.42	-38.35	0.968	-0.0143
8	19	0	1042.00	46.55	-24.48	0.618	-0.2092
9	8	0	1091.00	46.02	-23.95	0.604	-0.2187
9	57	0	1140.00	45.51	-23.44	0.591	-0.2281
11	18	0	1221.00	44.68	-22.61	0.571	-0.2437
14	21	0	1404.00	42.93	-20.86	0.526	-0.2787
15	22	0	1465.00	42.38	-20.31	0.512	-0.2903
16	21	0	1524.00	41.84	-19.77	0.499	-0.3020
8	37	0	2500.00	34.47	-12.40	0.313 *	-0.5046

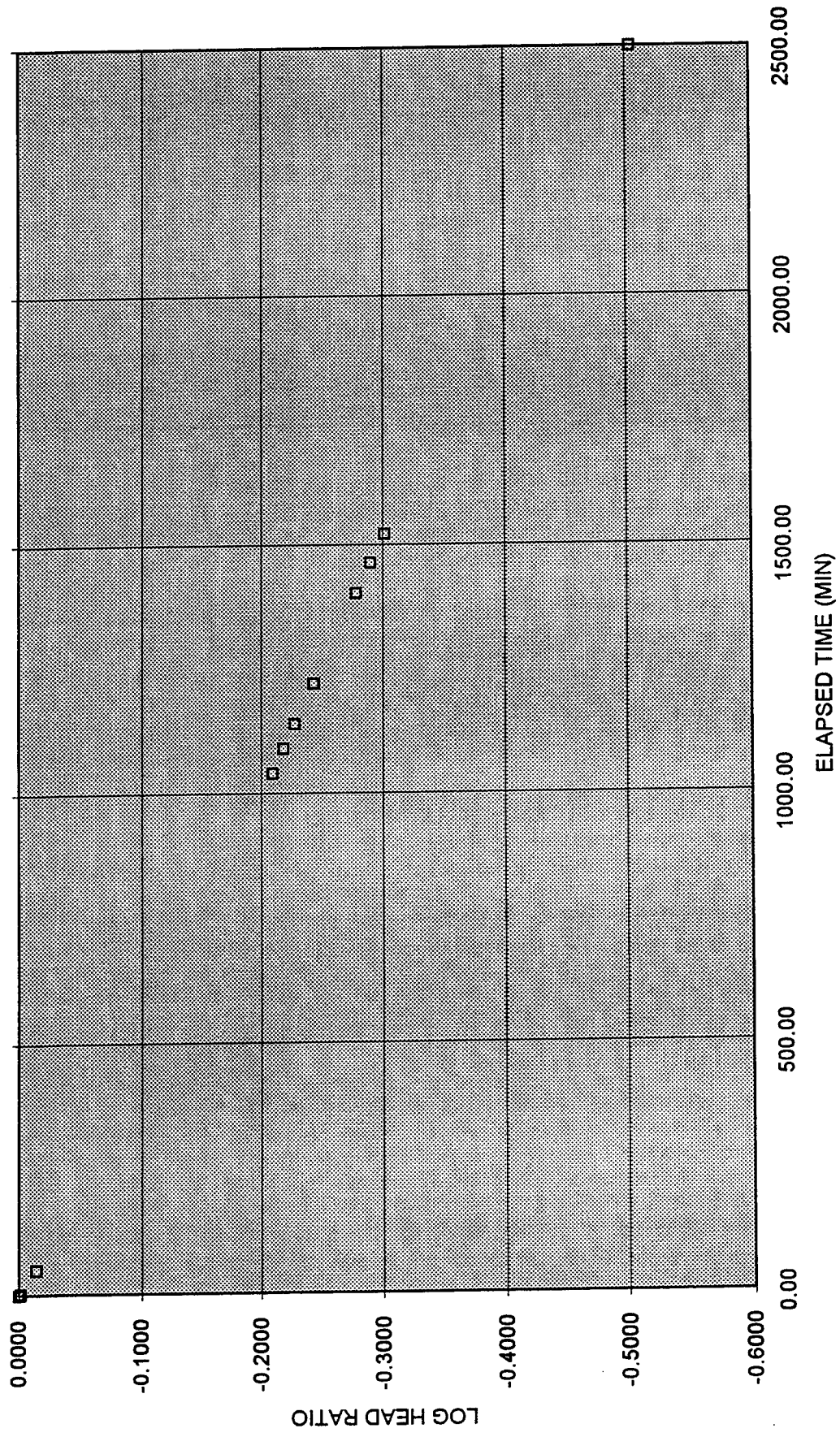
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
 WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 4.04E-07 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	2500.000	0.313

RIISING HEAD TEST
WELL RFI-16



RISING HEAD TEST

WELL RFI-17
DATE OF TEST: 8/9/96

STATIC WATER DEPTH = 7.31 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 8.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 14.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
8	49	24	0.00	11.40	-4.09	1.000	0.0000
8	49	34	0.17	11.20	-3.89	0.951	-0.0218
8	49	53	0.48	11.00	-3.69	0.902	-0.0447
8	50	16	0.87	10.90	-3.59	0.878	-0.0566
8	51	2	1.63	10.80	-3.49	0.853	-0.0689
8	52	48	3.40	10.70	-3.39	0.829	-0.0815
8	55	30	6.10	10.60	-3.29	0.804	-0.0945
9	1	35	12.18	10.50	-3.19	0.780 *	-0.1079
10	0	42	71.30	9.88	-2.57	0.628	-0.2018
11	19	25	150.02	8.97	-1.66	0.406 *	-0.3916

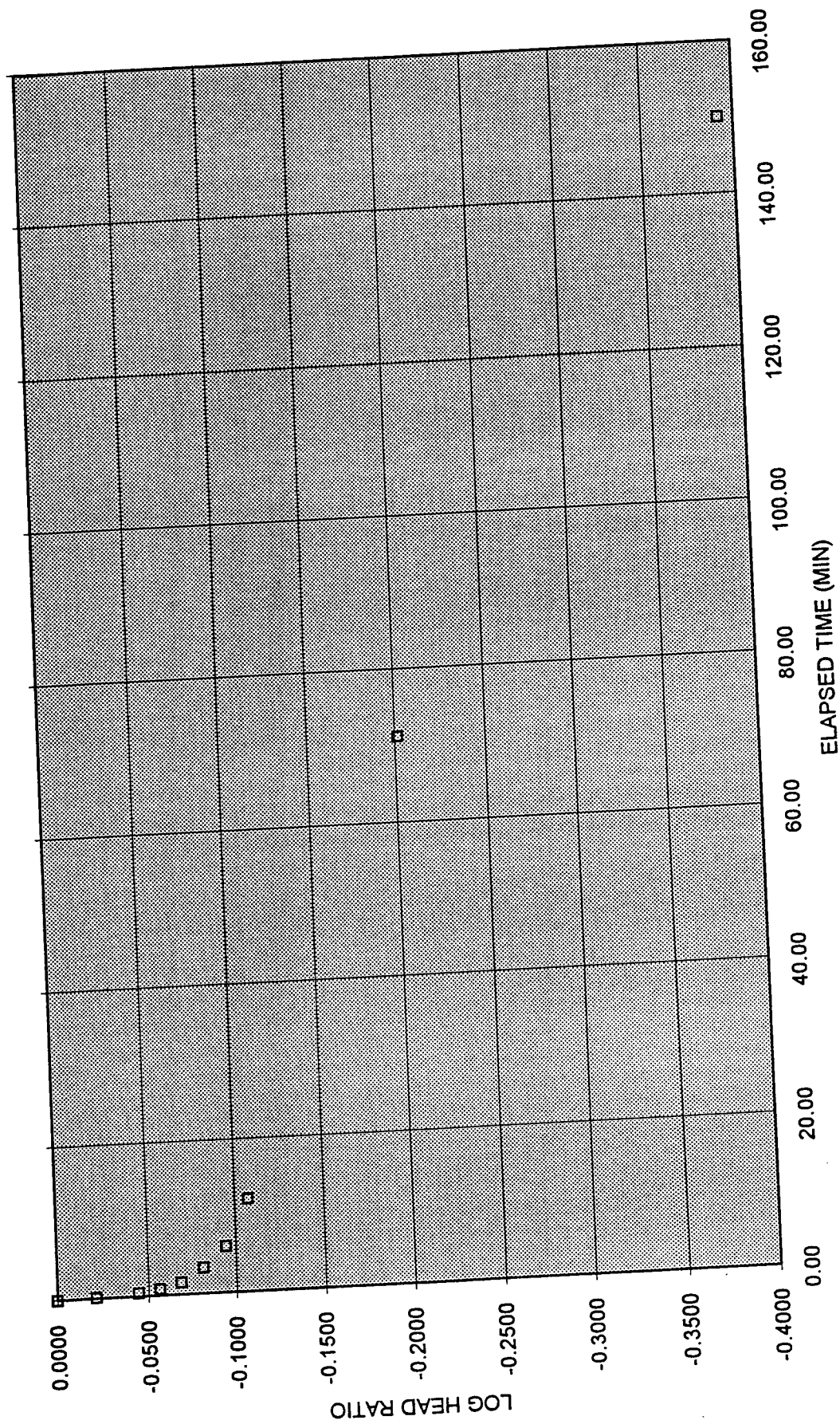
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 4.03E-06 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	12.180	0.780
POINT 2	150.020	0.406

RISING HEAD TEST
 WELL RFI-17



RISING HEAD TEST

WELL RFI-18
 DATE OF TEST: 5/31/96 THROUGH 6/1/96

STATIC WATER DEPTH = 8.23 FEET BELOW TOC
 STANDPIPE DIAMETER = 2.00 INCHES
 SANDPACK DIAMETER = 8.00 INCHES
 TOP OF SATURATED SAND = 10.00 FEET BELOW TOC
 BOTTOM OF SANDPACK = 16.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
10	46	0	0.00	14.44	-6.21	1.000	0.0000
10	46	30	0.50	14.11	-5.88	0.947	-0.0237
10	47	30	1.50	14.01	-5.78	0.931	-0.0312
10	48	0	2.00	13.91	-5.68	0.915	-0.0387
10	49	0	3.00	13.79	-5.56	0.895	-0.0480
10	50	0	4.00	13.69	-5.46	0.879	-0.0559
10	51	0	5.00	13.63	-5.40	0.870	-0.0607
10	56	0	10.00	13.48	-5.25	0.845	-0.0729
11	7	0	21.00	13.31	-5.08	0.818 *	-0.0872
11	30	0	44.00	13.14	-4.91	0.791	-0.1020
14	3	0	197.00	12.48	-4.25	0.684	-0.1647
15	7	0	261.00	12.28	-4.05	0.652	-0.1856
15	41	0	295.00	12.16	-3.93	0.633	-0.1987
16	34	0	348.00	12.02	-3.79	0.610 *	-0.2145
8	48	0	1322.00	9.15	-0.92	0.148	-0.8293

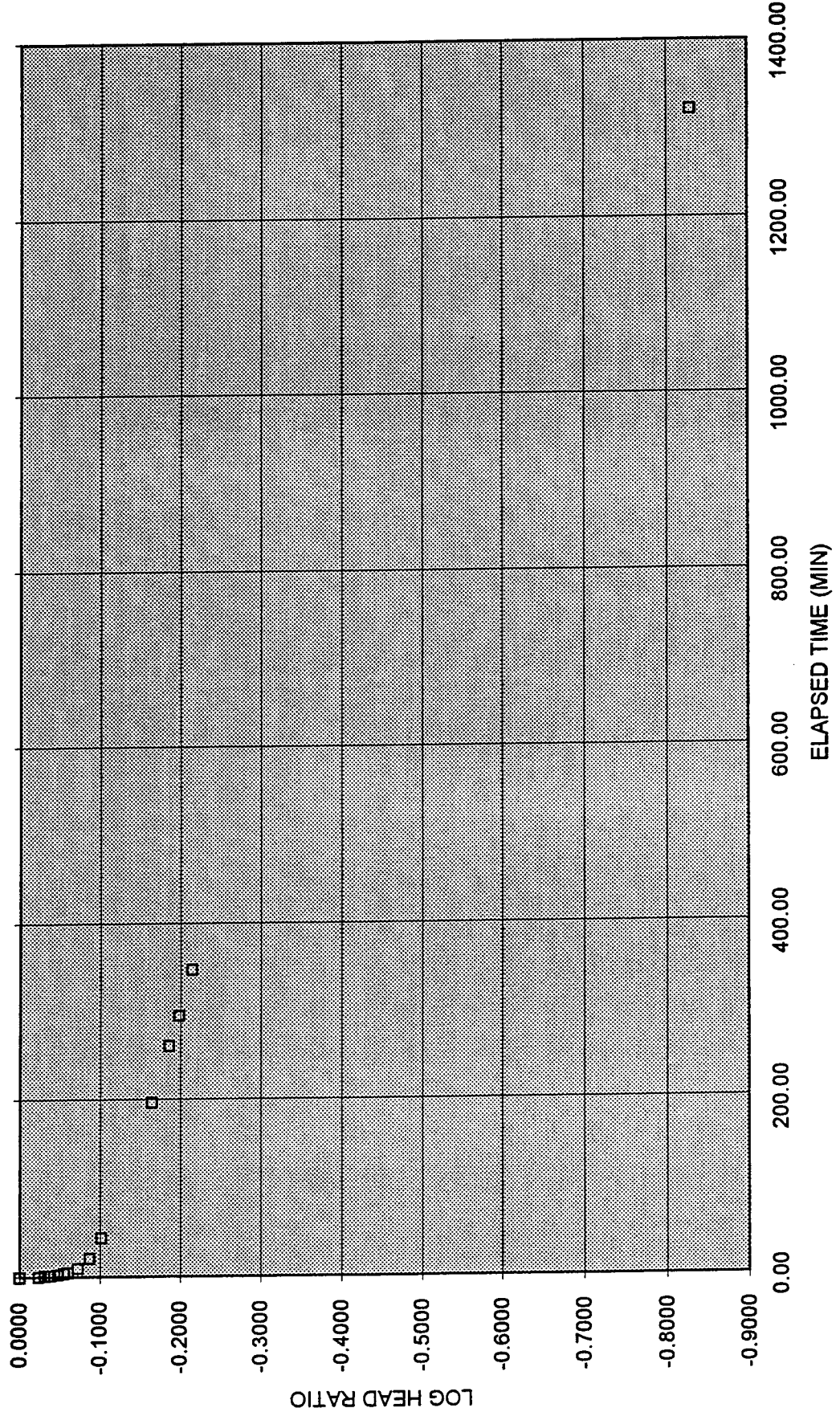
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
 WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 7.23E-07 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	21.000	0.818
POINT 2	348.000	0.610

RISING HEAD TEST
 WELL RFI-18



FALLING HEAD TEST

WELL RFI-19D
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 14.50 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 41.60 FEET BELOW TOC
BOTTOM OF SANDPACK = 47.90 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
0	0	0	0.00	12.98	1.52	1.000 *	0.0000
0	0	1	0.02	13.38	1.12	0.737	-0.1326
0	0	2	0.03	13.75	0.75	0.493	-0.3068
0	0	3	0.05	13.90	0.60	0.395	-0.4037
0	0	4	0.07	14.05	0.45	0.296	-0.5286
0	0	5	0.08	14.17	0.33	0.217	-0.6633
0	0	6	0.10	14.25	0.25	0.164	-0.7839
0	0	7	0.12	14.32	0.18	0.118	-0.9266
0	0	8	0.13	14.37	0.13	0.086	-1.0679
0	0	9	0.15	14.39	0.11	0.072	-1.1405
0	0	10	0.17	14.42	0.08	0.053	-1.2788
0	0	11	0.18	14.43	0.07	0.046	-1.3367
0	0	12	0.20	14.46	0.04	0.026 *	-1.5798

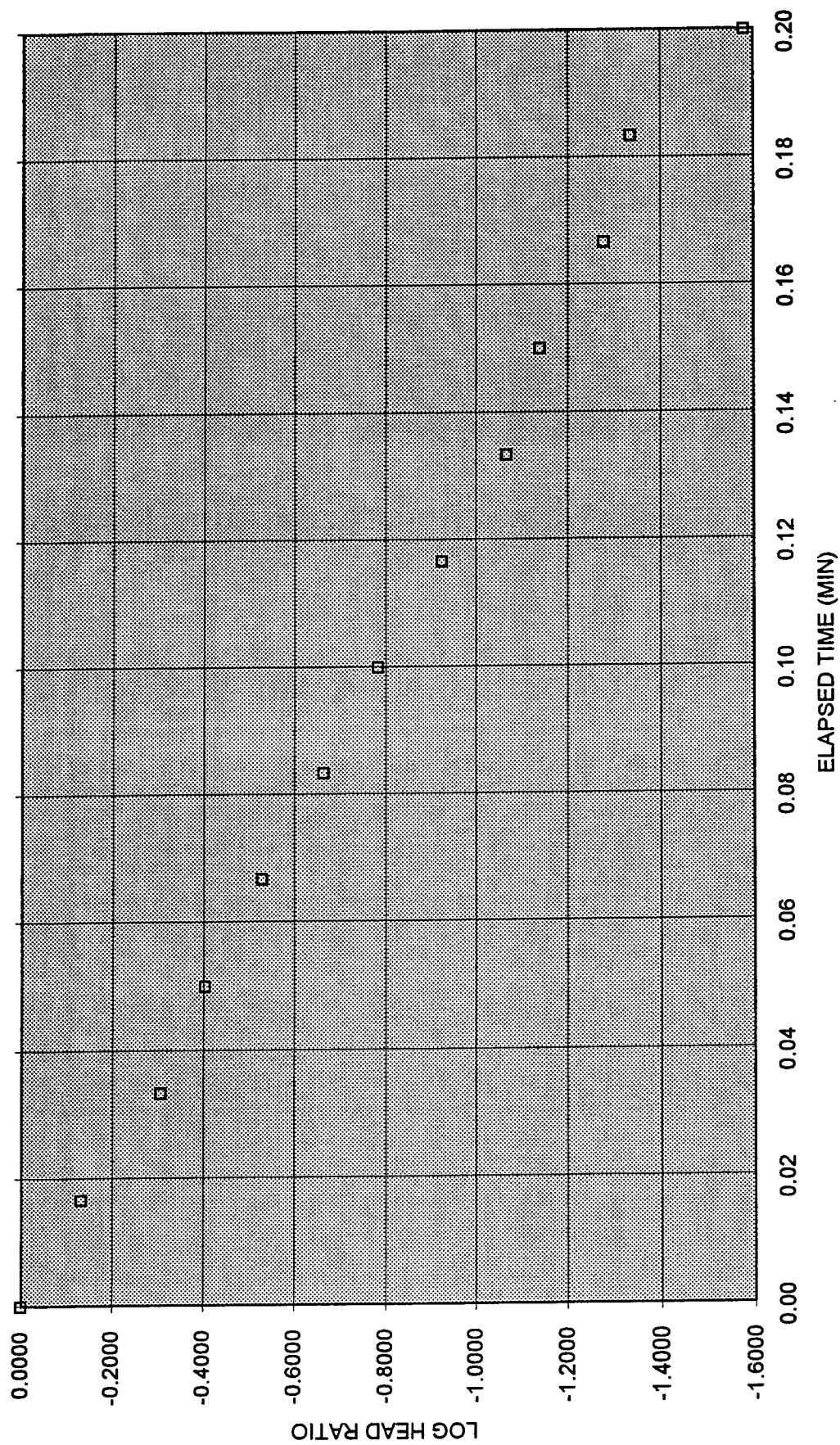
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.50E-02 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	0.200	0.026

FALLING HEAD TEST
WELL RFI-19D



RISING HEAD TEST

WELL RFI-20
DATE OF TEST: 5/30/96

STATIC WATER DEPTH = 5.67 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 8.20 FEET BELOW TOC
BOTTOM OF SANDPACK = 14.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/H ₀)	LOG HEAD RATIO
12	45	0	0.00	13.26	-7.59	1.000	0.0000
12	46	0	1.00	12.71	-7.04	0.928	-0.0327
12	47	0	2.00	12.32	-6.65	0.876	-0.0574
12	48	0	3.00	12.05	-6.38	0.841	-0.0754
12	49	0	4.00	11.86	-6.19	0.816 *	-0.0886
12	50	0	5.00	11.69	-6.02	0.793	-0.1006
13	0	0	15.00	10.61	-4.94	0.651	-0.1865
13	10	0	25.00	9.78	-4.11	0.542	-0.2664
13	19	0	34.00	9.20	-3.53	0.465	-0.3325
13	28	0	43.00	8.28	-2.61	0.344	-0.4636
13	51	0	66.00	7.08	-1.41	0.186	-0.7310
14	20	0	95.00	6.41	-0.74	0.097	-1.0110
15	2	0	137.00	6.00	-0.33	0.043 *	-1.3617

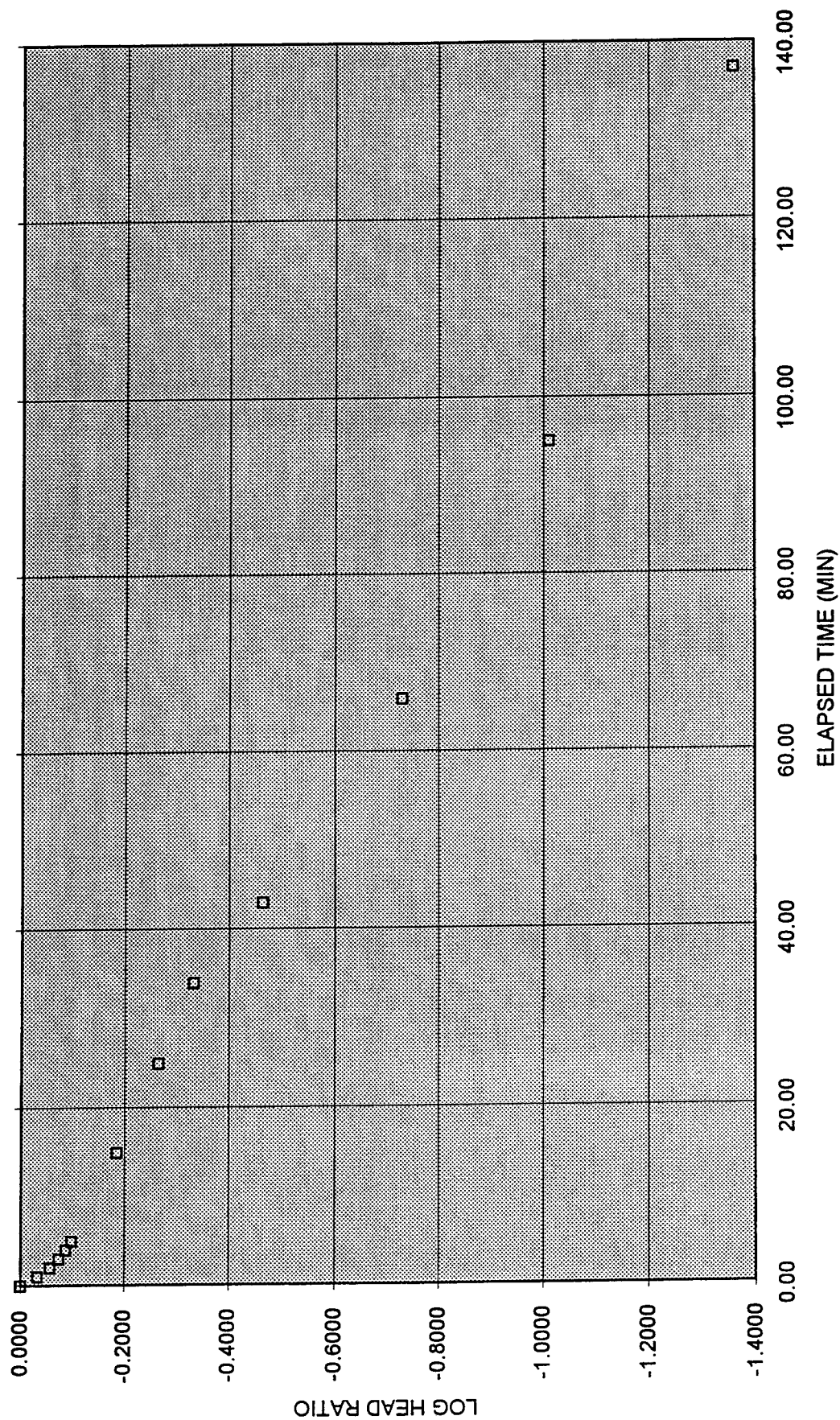
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.82E-05 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	4.000	0.816
POINT 2	137.000	0.043

RIISING HEAD TEST
WELL RFI-20



RISING HEAD TEST

WELL RFI-21D
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 14.60 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 37.00 FEET BELOW TOC
BOTTOM OF SANDPACK = 43.25 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
0	0	0	0.00	15.75	-1.15	1.000 *	0.0000
0	0	1	0.02	15.53	-0.93	0.809	-0.0922
0	0	2	0.03	15.36	-0.76	0.661	-0.1799
0	0	3	0.05	15.24	-0.64	0.557	-0.2545
0	0	4	0.07	15.11	-0.51	0.443	-0.3531
0	0	5	0.08	15.02	-0.42	0.365	-0.4374
0	0	6	0.10	14.94	-0.34	0.296	-0.5292
0	0	7	0.12	14.88	-0.28	0.243	-0.6135
0	0	8	0.13	14.83	-0.23	0.200	-0.6990
0	0	9	0.15	14.80	-0.20	0.174	-0.7597
0	0	10	0.17	14.76	-0.16	0.139 *	-0.8566
0	0	11	0.18	14.74	-0.14	0.122	-0.9146
0	0	12	0.20	14.72	-0.12	0.104	-0.9815
0	0	13	0.22	14.71	-0.11	0.096	-1.0193
0	0	14	0.23	14.70	-0.10	0.087	-1.0607
0	0	15	0.25	14.68	-0.08	0.070	-1.1576
0	0	16	0.27	14.67	-0.07	0.061	-1.2156
0	0	17	0.28	14.67	-0.07	0.061	-1.2156
0	0	18	0.30	14.66	-0.06	0.052	-1.2825
0	0	19	0.32	14.65	-0.05	0.043	-1.3617
0	0	20	0.33	14.65	-0.05	0.043	-1.3617

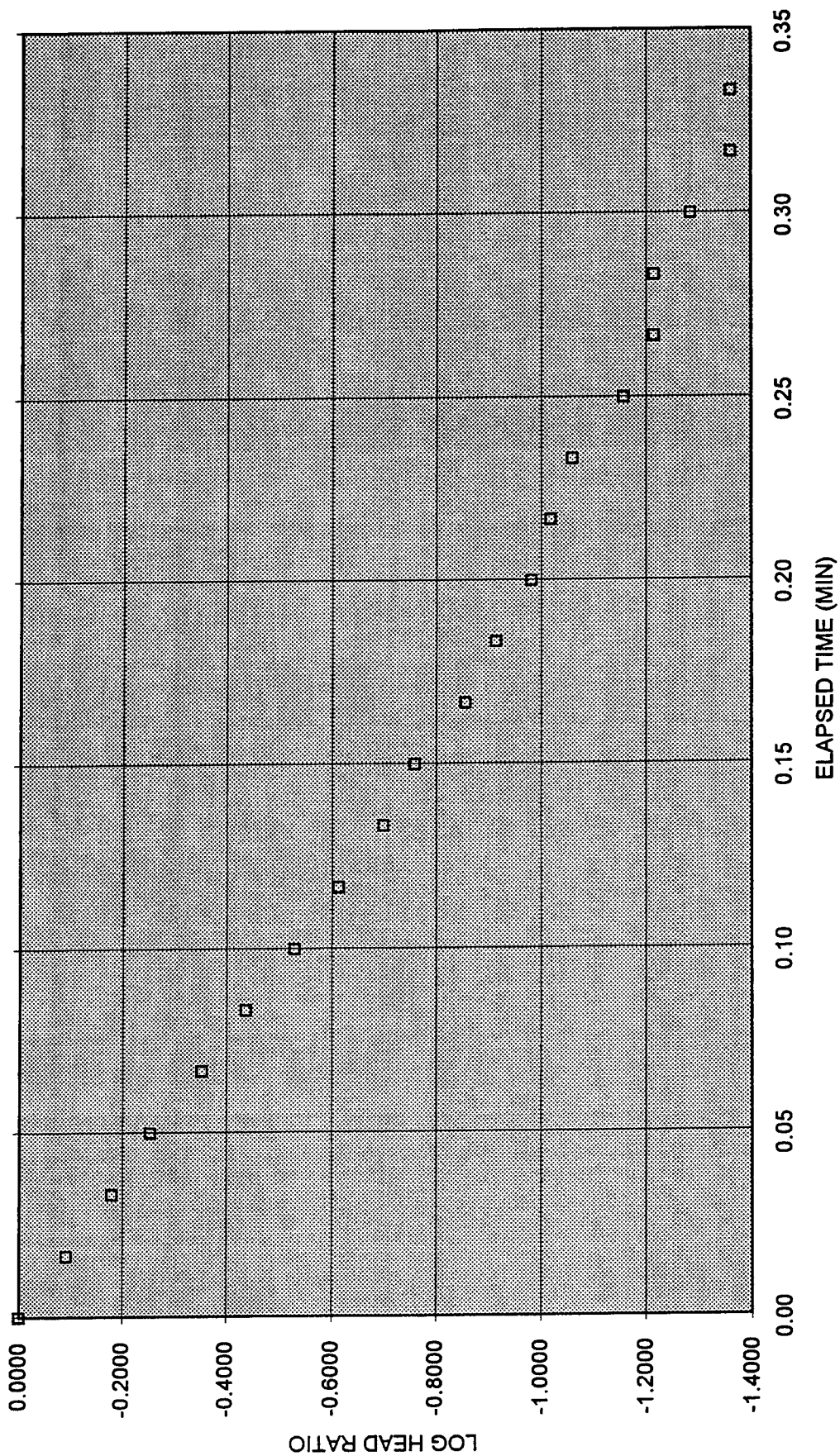
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 9.60E-03 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	0.170	0.139

RIISING HEAD TEST
WELL RFI-21D



RISING HEAD TEST

WELL RFI-22
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 16.90 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 25.30 FEET BELOW TOC
BOTTOM OF SANDPACK = 37.30 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/H ₀)	LOG HEAD RATIO
0	0	0	0.00	17.98	-1.08	1.000	0.0000
0	0	1	0.02	17.70	-0.80	0.741	-0.1303
0	0	2	0.03	17.52	-0.62	0.574	-0.2410
0	0	3	0.05	17.41	-0.51	0.472	-0.3259
0	0	4	0.07	17.37	-0.47	0.435	-0.3613
0	0	5	0.08	17.31	-0.41	0.380 *	-0.4206
0	0	6	0.10	17.29	-0.39	0.361	-0.4424
0	0	7	0.12	17.27	-0.37	0.343	-0.4652
0	0	8	0.13	17.24	-0.34	0.315	-0.5019
0	0	9	0.15	17.23	-0.33	0.306	-0.5149
0	0	10	0.17	17.21	-0.31	0.287	-0.5421
0	0	11	0.18	17.20	-0.30	0.278	-0.5563
0	0	12	0.20	17.20	-0.30	0.278	-0.5563
0	0	13	0.22	17.18	-0.28	0.259	-0.5863
0	0	14	0.23	17.17	-0.27	0.250 *	-0.6021
0	0	15	0.25	17.17	-0.27	0.250	-0.6021

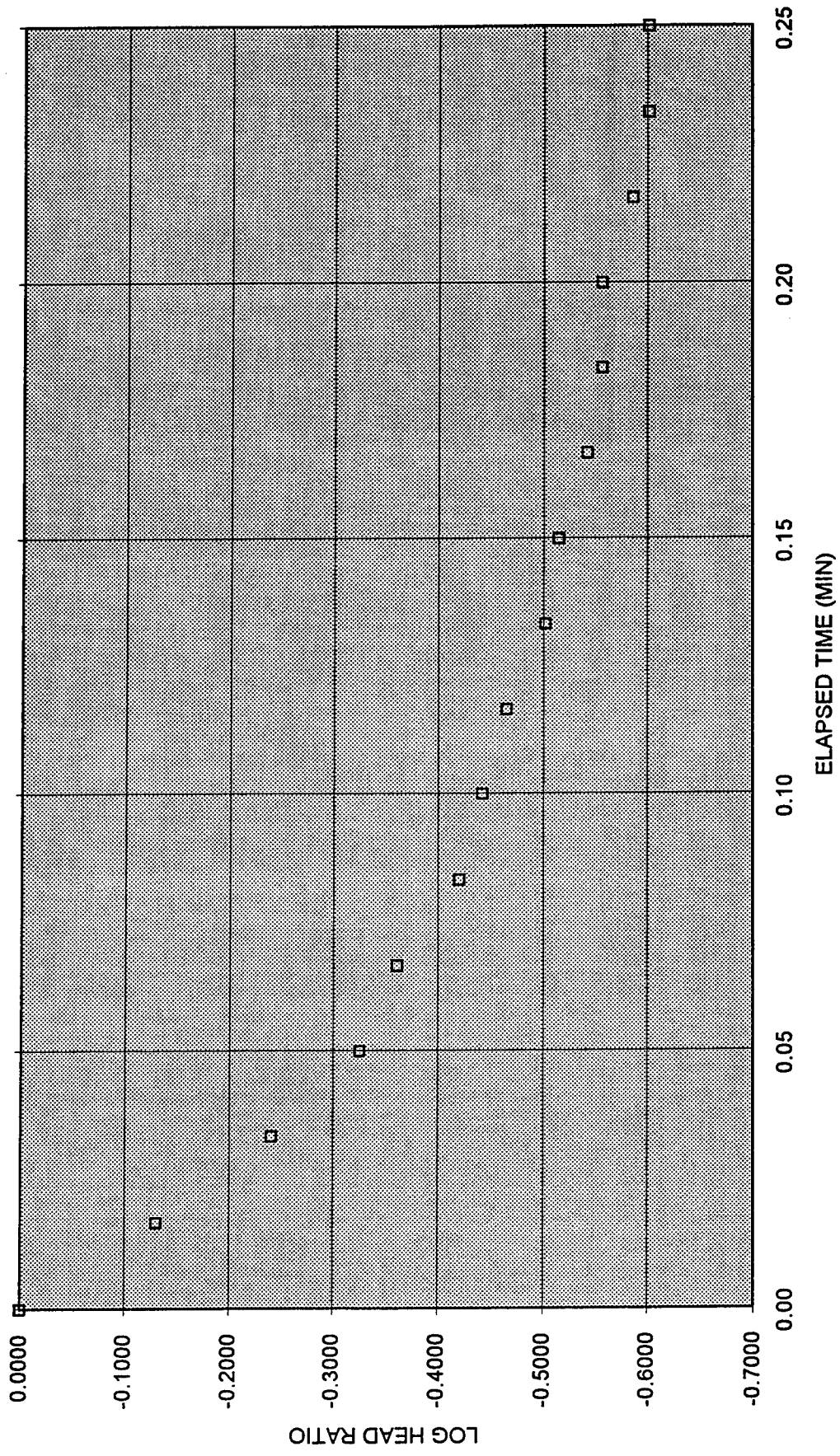
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.47E-03 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.080	0.380
POINT 2	0.230	0.250

RIISING HEAD TEST
WELL RFI-22



RISING HEAD TEST

WELL RFI-23D
 DATE OF TEST: 8/9/96

STATIC WATER DEPTH = 21.01 FEET BELOW TOC
 STANDPIPE DIAMETER = 2.00 INCHES
 SANDPACK DIAMETER = 8.00 INCHES
 TOP OF SATURATED SAND = 57.40 FEET BELOW TOC
 BOTTOM OF SANDPACK = 65.00 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
10	31	5	0.00	30.80	-9.79	1.000	0.0000
10	32	3	0.97	30.70	-9.69	0.990	-0.0045
10	33	59	2.90	30.60	-9.59	0.980	-0.0090
10	44	25	13.33	30.30	-9.29	0.949 *	-0.0228
10	48	55	17.83	30.20	-9.19	0.939	-0.0275
10	53	54	22.82	30.10	-9.09	0.928	-0.0322
10	59	3	27.97	30.00	-8.99	0.918	-0.0370
12	58	2	146.95	28.24	-7.23	0.739	-0.1316
13	42	1	190.93	27.70	-6.69	0.683 *	-0.1654

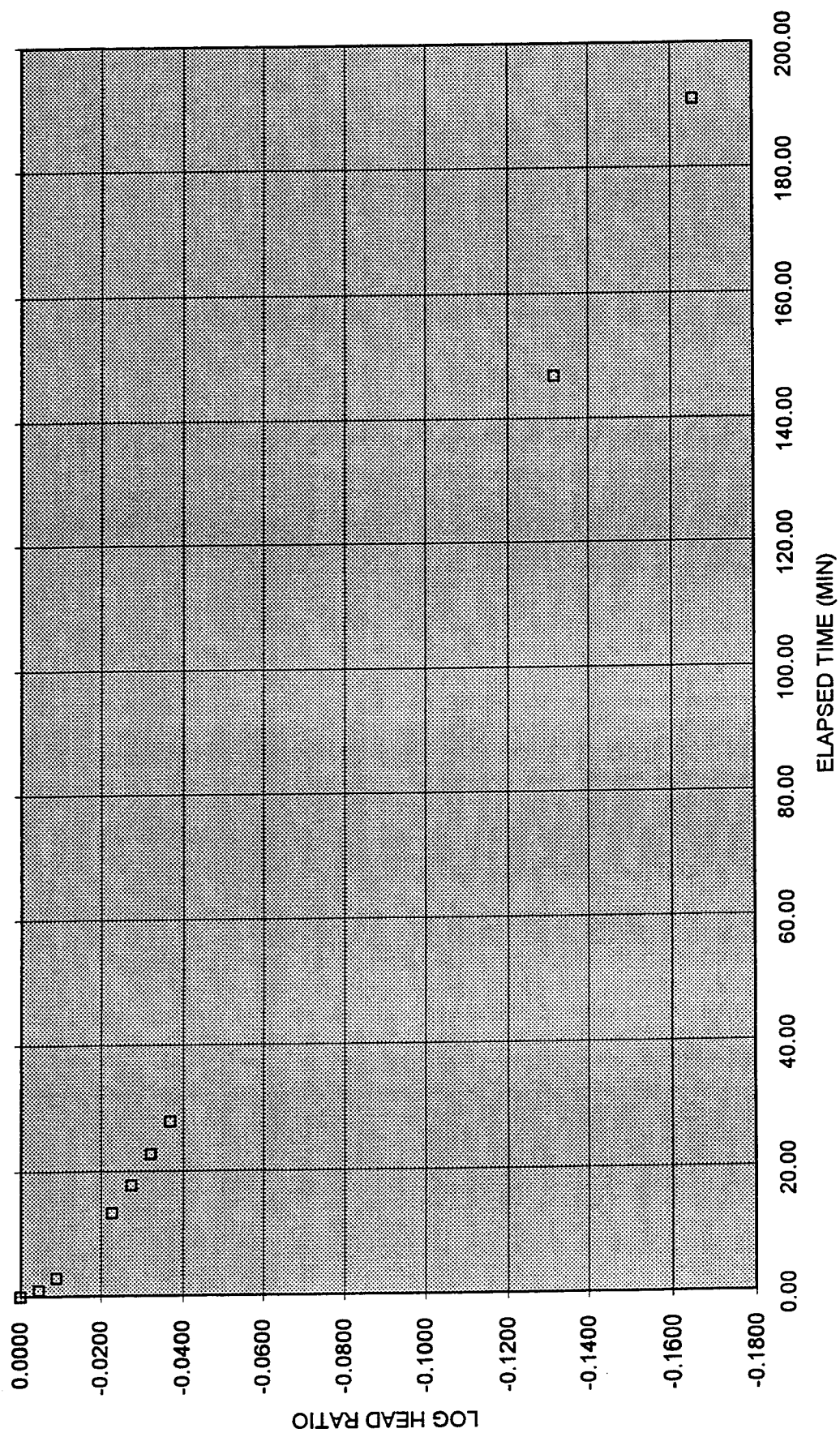
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.34E-06 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	13.330	0.949
POINT 2	190.930	0.683

RIISING HEAD TEST
WELL RFI-23D



RISING HEAD TEST

WELL RFI-24
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 10.23 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 18.80 FEET BELOW TOC
BOTTOM OF SANDPACK = 31.80 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
0	0	0	0.00	11.59	-1.36	1.000	0.0000
0	0	1	0.02	11.28	-1.05	0.772	-0.1123
0	0	2	0.03	11.10	-0.87	0.640	-0.1940
0	0	3	0.05	10.97	-0.74	0.544 *	-0.2643
0	0	4	0.07	10.87	-0.64	0.471	-0.3274
0	0	5	0.08	10.79	-0.56	0.412	-0.3854
0	0	6	0.10	10.73	-0.50	0.368	-0.4346
0	0	7	0.12	10.67	-0.44	0.324	-0.4901
0	0	8	0.13	10.62	-0.39	0.287	-0.5425
0	0	9	0.15	10.59	-0.36	0.265	-0.5772
0	0	10	0.17	10.56	-0.33	0.243	-0.6150
0	0	11	0.18	10.53	-0.30	0.221 *	-0.6564
0	0	12	0.20	10.52	-0.29	0.213	-0.6711
0	0	13	0.22	10.50	-0.27	0.199	-0.7022
0	0	14	0.23	10.48	-0.25	0.184	-0.7356
0	0	15	0.25	10.47	-0.24	0.176	-0.7533
0	0	16	0.27	10.46	-0.23	0.169	-0.7718
0	0	17	0.28	10.45	-0.22	0.162	-0.7911
0	0	18	0.30	10.44	-0.21	0.154	-0.8113

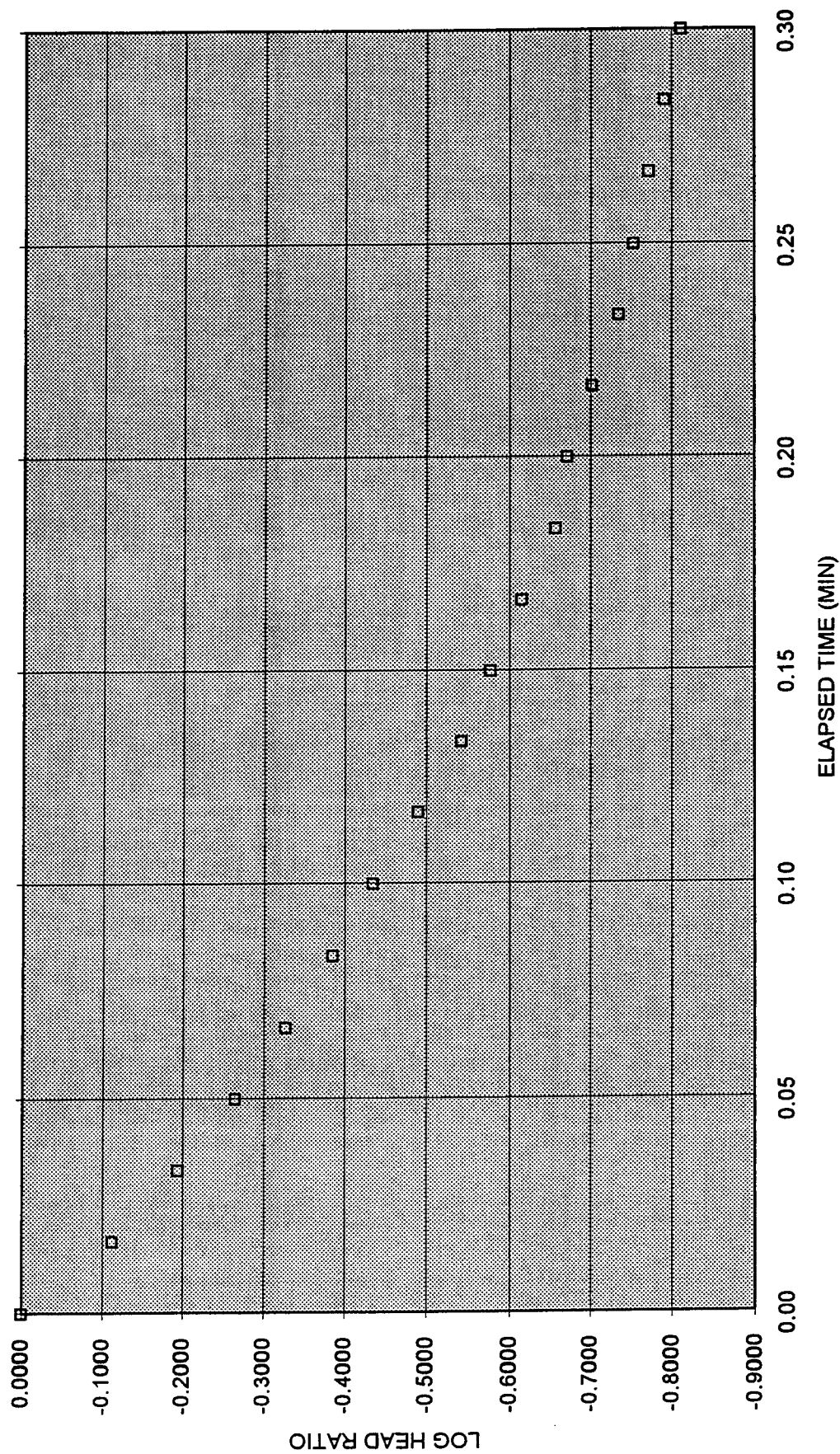
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 3.44E-03 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.050	0.544
POINT 2	0.180	0.221

RIISING HEAD TEST
WELL RF1-24



RISING HEAD TEST

WELL RFI-25
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 13.60 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 19.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 32.50 FEET BELOW TOC

24 HOUR CLOCK			ELAPSED	DEPTH TO	HEAD	HEAD	LOG
HR	MIN	SEC	TIME (MIN)	WATER (FT TOC)	(FEET)	RATIO (H/Ho)	HEAD RATIO
0	0	0	0.00	14.35	-0.75	1.000 *	0.0000
0	0	1	0.02	13.98	-0.38	0.507	-0.2953
0	0	2	0.03	13.73	-0.13	0.173	-0.7611
0	0	3	0.05	13.66	-0.06	0.080	-1.0969
0	0	4	0.07	13.64	-0.04	0.053 *	-1.2730
0	0	5	0.08	13.63	-0.03	0.040	-1.3979
0	0	6	0.10	13.62	-0.02	0.027	-1.5740
0	0	7	0.12	13.62	-0.02	0.027	-1.5740
0	0	8	0.13	13.61	-0.01	0.013	-1.8751

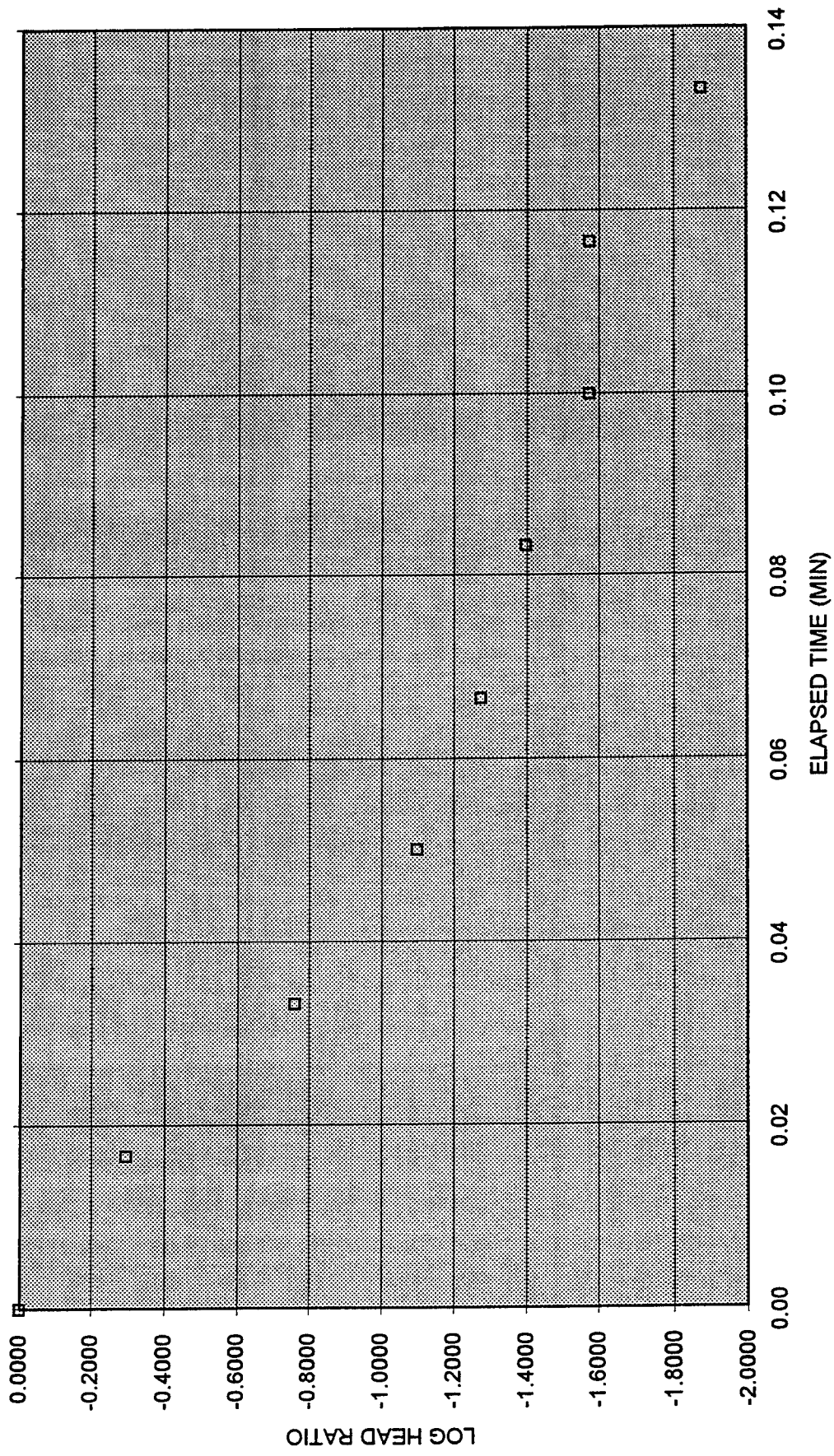
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 2.09E-02 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	0.070	0.053

RIISING HEAD TEST
WELL RFI-25



RISING HEAD TEST

WELL RFI-26
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 13.98 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 22.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 38.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
0	0	0	0.00	15.11	-1.13	1.000	0.0000
0	0	1	0.02	15.06	-1.08	0.956 *	-0.0197
0	0	2	0.03	14.84	-0.86	0.761	-0.1186
0	0	3	0.05	14.68	-0.70	0.619	-0.2080
0	0	4	0.07	14.52	-0.54	0.478	-0.3207
0	0	5	0.08	14.42	-0.44	0.389	-0.4096
0	0	6	0.10	14.33	-0.35	0.310	-0.5090
0	0	7	0.12	14.26	-0.28	0.248	-0.6059
0	0	8	0.13	14.22	-0.24	0.212	-0.6729
0	0	9	0.15	14.18	-0.20	0.177	-0.7520
0	0	10	0.17	14.15	-0.17	0.150 *	-0.8226
0	0	11	0.18	14.14	-0.16	0.142	-0.8490
0	0	12	0.20	14.12	-0.14	0.124	-0.9070
0	0	13	0.22	14.10	-0.12	0.106	-0.9739
0	0	14	0.23	14.10	-0.12	0.106	-0.9739
0	0	15	0.25	14.09	-0.11	0.097	-1.0117
0	0	16	0.27	14.09	-0.11	0.097	-1.0117
0	0	17	0.28	14.07	-0.09	0.080	-1.0988

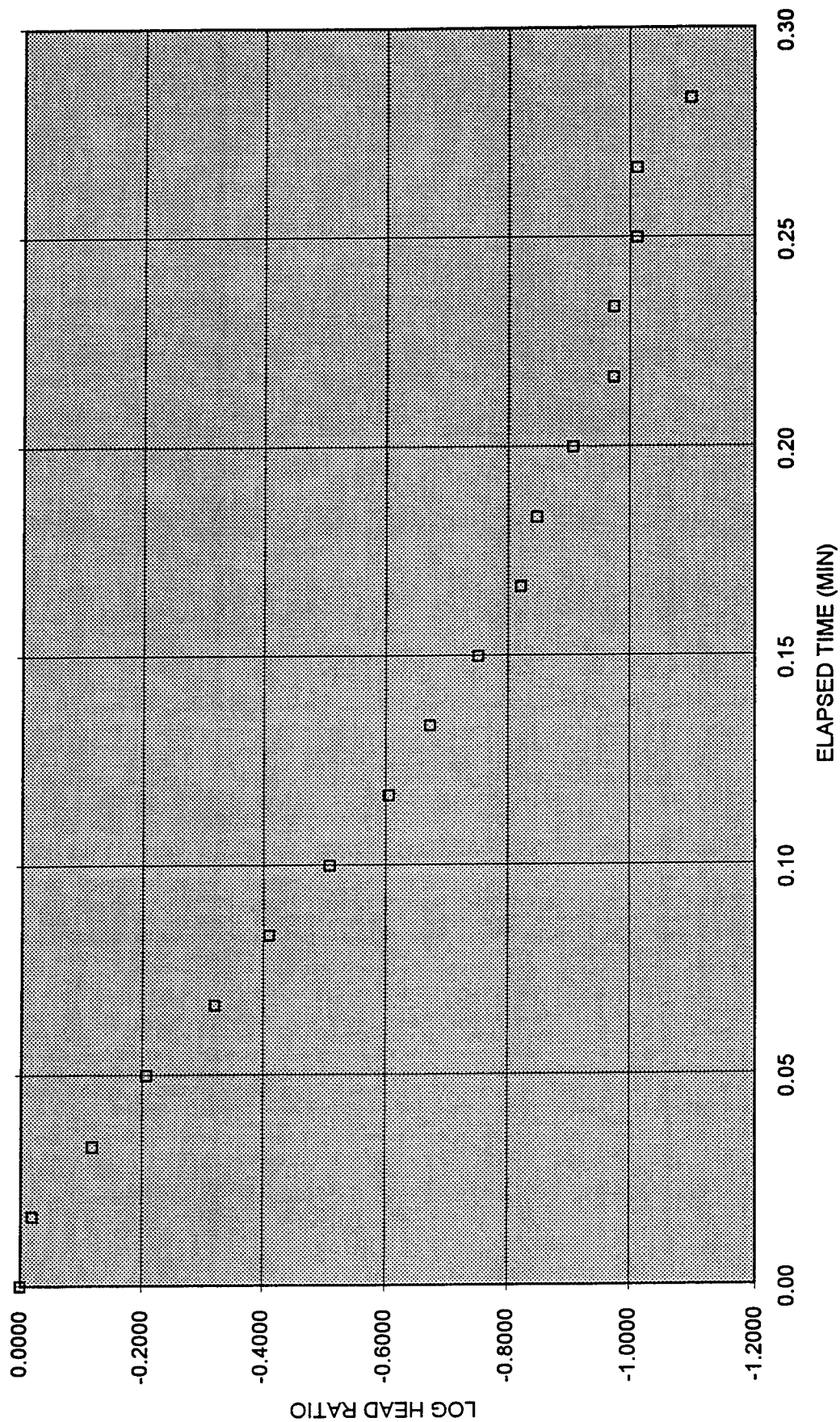
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 5.27E-03 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.020	0.956
POINT 2	0.170	0.150

RIISING HEAD TEST
WELL RF1-26



RISING HEAD TEST

WELL RFI-27
 DATE OF TEST: 5/30/96 THROUGH 6/1/96

STATIC WATER DEPTH = 5.80 FEET BELOW TOC
 STANDPIPE DIAMETER = 2.00 INCHES
 SANDPACK DIAMETER = 8.00 INCHES
 TOP OF SATURATED SAND = 13.80 FEET BELOW TOC
 BOTTOM OF SANDPACK = 20.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
14	2	0	0.00	17.52	-11.72	1.000	0.0000
14	3	0	1.00	17.00	-11.20	0.956	-0.0197
14	4	0	2.00	16.85	-11.05	0.943	-0.0256
14	5	0	3.00	16.75	-10.95	0.934	-0.0295
14	10	0	8.00	16.60	-10.80	0.922	-0.0355
14	15	0	13.00	16.50	-10.70	0.913	-0.0395
14	30	0	28.00	16.28	-10.48	0.894	-0.0486
15	15	0	73.00	15.87	-10.07	0.859	-0.0659
15	50	0	108.00	15.57	-9.77	0.834	-0.0790
8	1	0	1079.00	7.72	-1.92	0.164 *	-0.7856
8	25	0	1103.00	7.66	-1.86	0.159	-0.7994
8	58	0	1136.00	7.58	-1.78	0.152	-0.8185
9	59	0	1197.00	7.43	-1.63	0.139	-0.8567
11	22	0	1280.00	7.25	-1.45	0.124	-0.9076
14	16	0	1454.00	6.95	-1.15	0.098	-1.0082
15	29	0	1527.00	6.86	-1.06	0.090	-1.0436
16	27	0	1585.00	6.79	-0.99	0.084 *	-1.0733
8	42	0	2560.00	6.20	-0.40	0.034	-1.4669

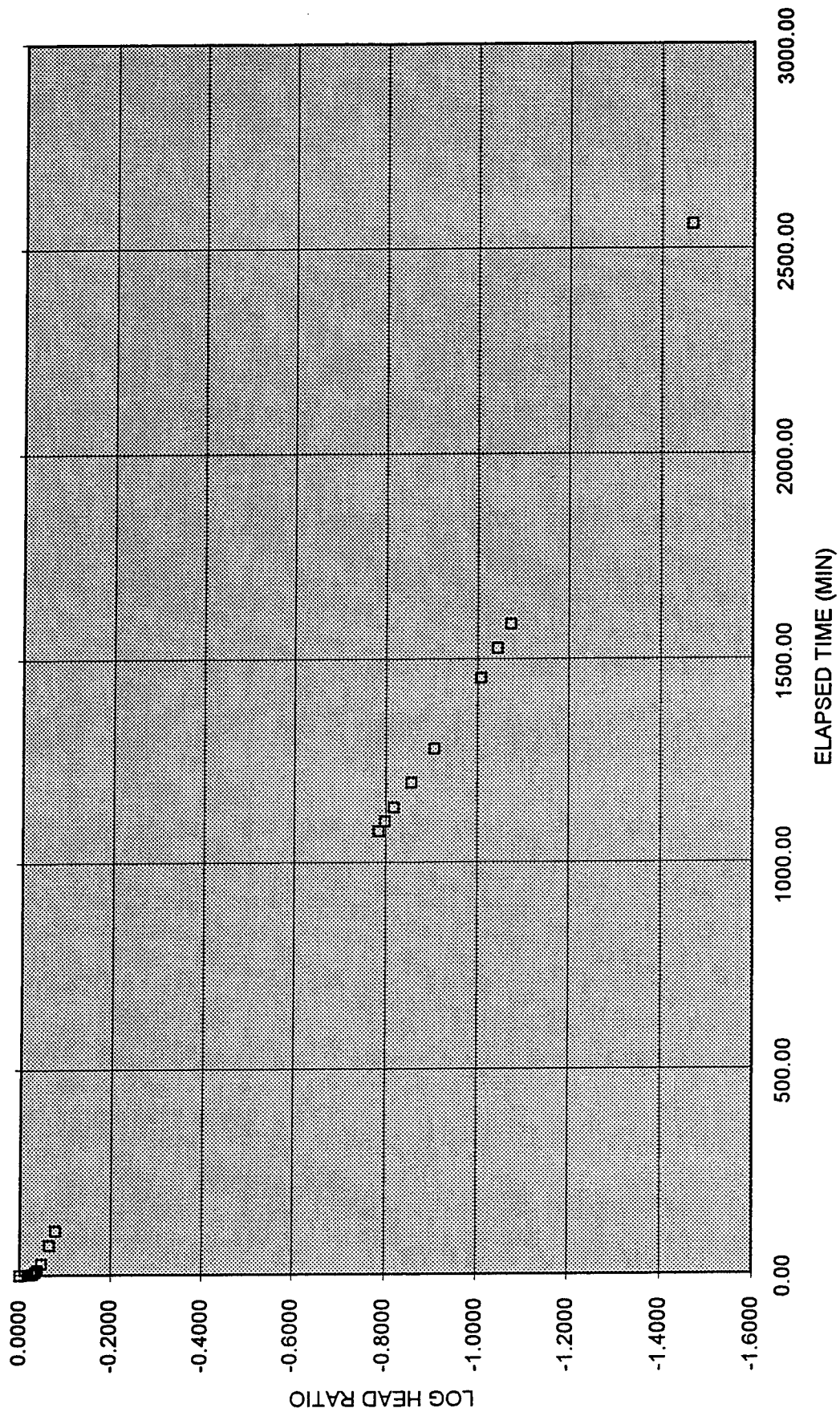
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.04E-06 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	1079.000	0.164
POINT 2	1585.000	0.084

RIISING HEAD TEST
WELL RFI-27



RISING HEAD TEST

WELL RFI-28
DATE OF TEST: 5/30/96

STATIC WATER DEPTH = 7.94 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 11.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 18.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/H ₀)	LOG HEAD RATIO
9	55	0	0.00	15.90	-7.96	1.000	0.0000
9	55	30	0.50	15.62	-7.68	0.965	-0.0156
9	56	0	1.00	15.31	-7.37	0.926 *	-0.0334
9	57	0	2.00	15.16	-7.22	0.907	-0.0424
10	0	0	5.00	14.94	-7.00	0.879	-0.0558
10	5	0	10.00	14.61	-6.67	0.838	-0.0768
10	15	0	20.00	13.91	-5.97	0.750	-0.1249
10	25	0	30.00	13.21	-5.27	0.662 *	-0.1791
10	55	0	60.00	10.36	-2.42	0.304	-0.5171
11	40	0	105.00	8.65	-0.71	0.089	-1.0497
12	55	0	180.00	7.95	-0.01	0.001	-2.9009

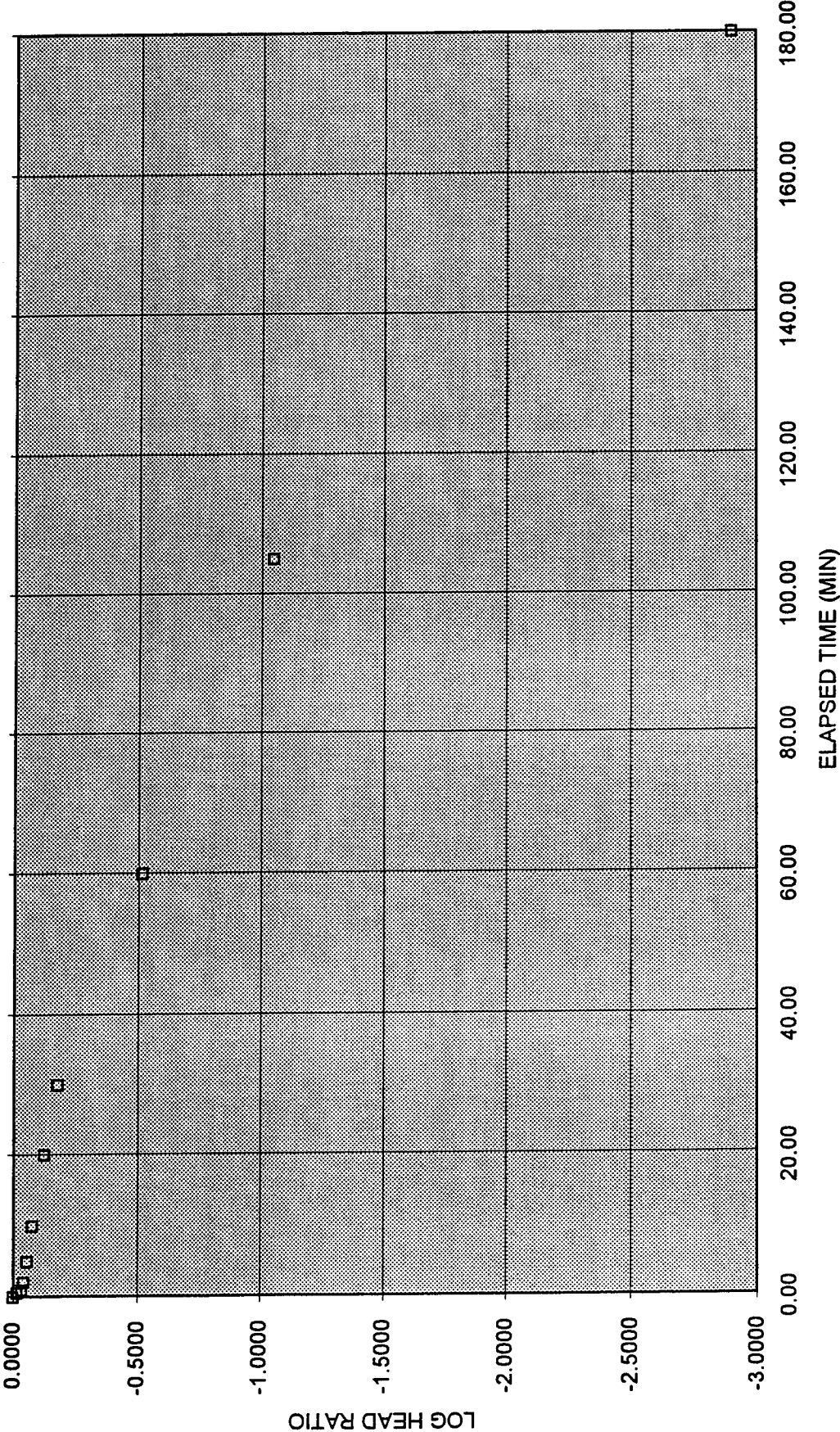
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 8.88E-06 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	1.000	0.926
POINT 2	30.000	0.662

RISING HEAD TEST
 WELL RFI-28



FALLING HEAD TEST

WELL RFI-29
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 5.30 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 9.00 FEET BELOW TOC
BOTTOM OF SANDPACK = 16.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/H ₀)	LOG HEAD RATIO
0	0	66	0.00	4.05	1.25	1.000 *	0.0000
0	0	76	0.17	4.23	1.07	0.856	-0.0675
0	0	86	0.33	4.39	0.91	0.728	-0.1379
0	0	96	0.50	4.52	0.78	0.624	-0.2048
0	0	106	0.67	4.63	0.67	0.536	-0.2708
0	0	116	0.83	4.73	0.57	0.456	-0.3410
0	0	126	1.00	4.81	0.49	0.392	-0.4067
0	0	136	1.17	4.88	0.42	0.336	-0.4737
0	0	146	1.33	4.93	0.37	0.296	-0.5287
0	0	156	1.50	4.98	0.32	0.256	-0.5918
0	0	166	1.67	5.02	0.28	0.224	-0.6498
0	0	196	2.17	5.10	0.20	0.160	-0.7959
0	0	226	2.67	5.17	0.13	0.104 *	-0.9830
0	0	256	3.17	5.19	0.11	0.088	-1.0555
0	0	286	3.67	5.21	0.09	0.072	-1.1427
0	0	316	4.17	5.23	0.07	0.056	-1.2518
0	0	345	4.65	5.24	0.06	0.048	-1.3188

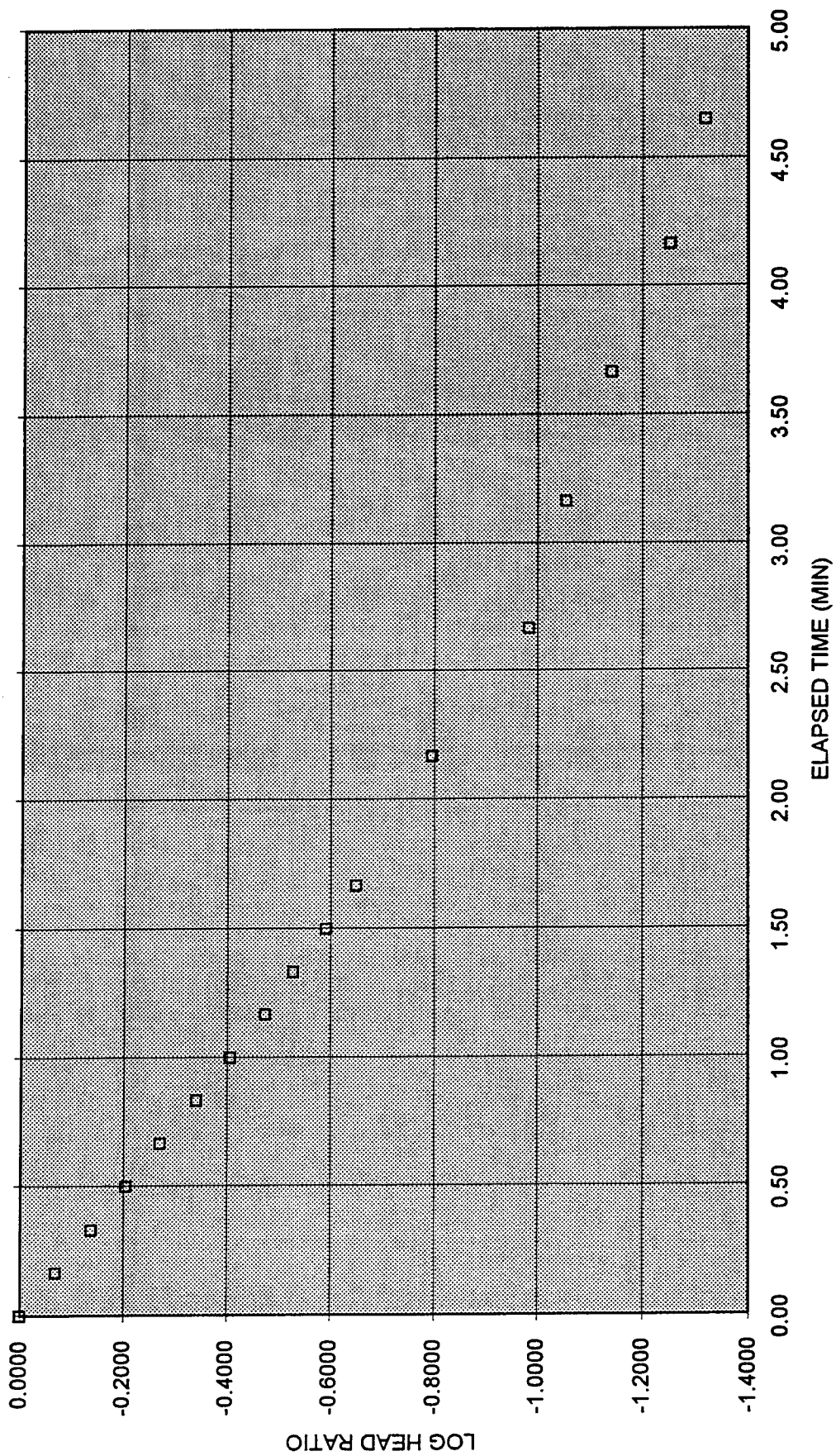
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 6.21E-04 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	2.670	0.104

FALLING HEAD TEST
WELL RFI-29



RISING HEAD TEST

WELL RFI-30
DATE OF TEST: 5/30/96 THROUGH 6/1/96

STATIC WATER DEPTH = 7.48 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 11.40 FEET BELOW TOC
BOTTOM OF SANDPACK = 17.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
13	38	0	0.00	15.40	-7.92	1.000	0.0000
13	39	0	1.00	14.95	-7.47	0.943	-0.0254
13	40	0	2.00	14.75	-7.27	0.918	-0.0372
13	41	0	3.00	14.63	-7.15	0.903	-0.0444
13	42	0	4.00	14.57	-7.09	0.895	-0.0481
13	47	0	9.00	14.38	-6.90	0.871 *	-0.0599
14	27	0	49.00	14.01	-6.53	0.824	-0.0838
15	11	0	93.00	13.82	-6.34	0.801	-0.0966
15	53	0	135.00	13.67	-6.19	0.782	-0.1070
8	4	0	1106.00	9.27	-1.79	0.226	-0.6459
8	28	0	1130.00	9.20	-1.72	0.217	-0.6632
9	2	0	1164.00	9.12	-1.64	0.207	-0.6839
10	3	0	1225.00	8.97	-1.49	0.188	-0.7255
11	26	0	1308.00	8.80	-1.32	0.167	-0.7782
14	10	0	1472.00	8.51	-1.03	0.130	-0.8859
15	32	0	1554.00	8.39	-0.91	0.115	-0.9397
16	30	0	1612.00	8.32	-0.84	0.106 *	-0.9744
8	45	0	2587.00	7.73	-0.25	0.032	-1.5008

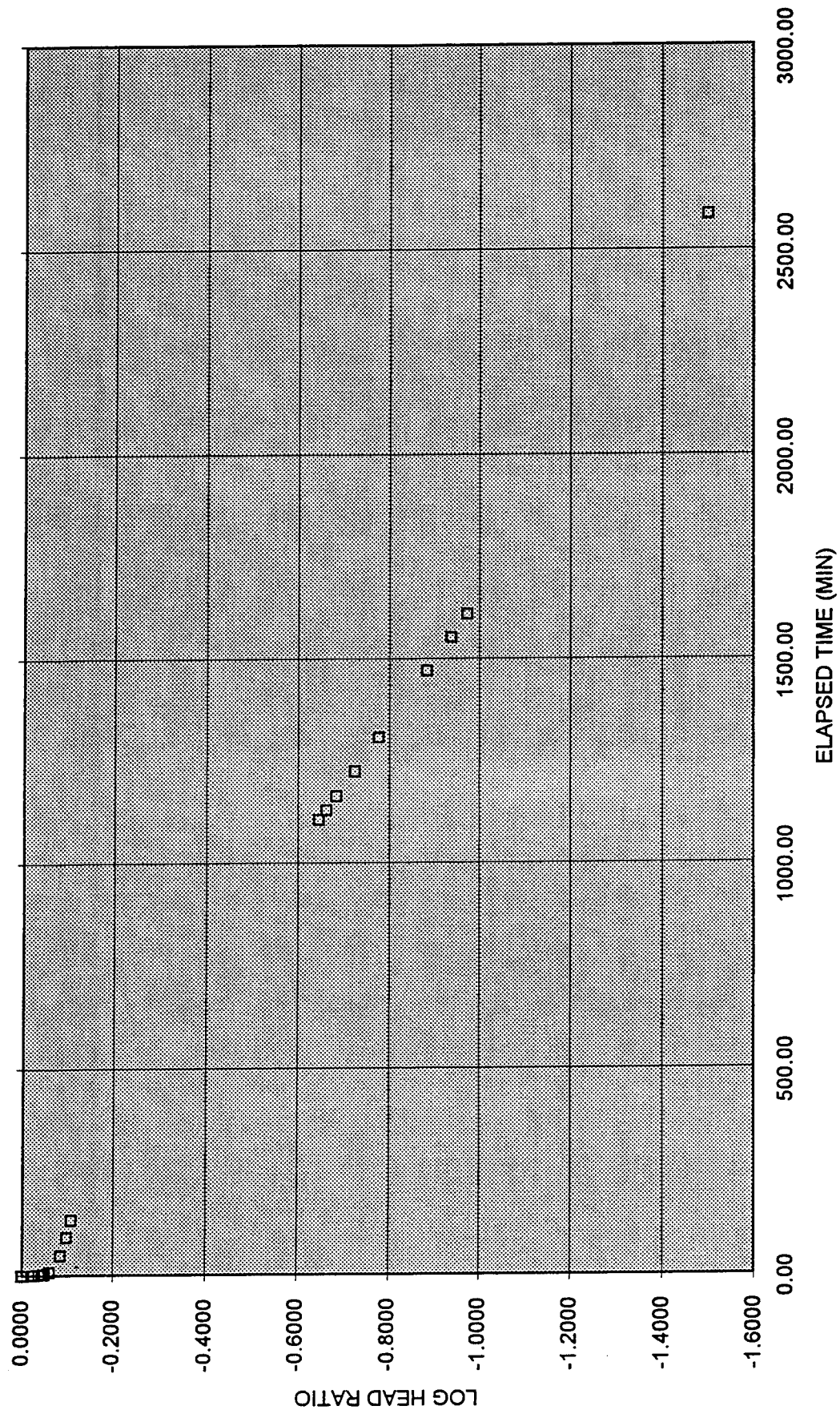
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.10E-06 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	9.000	0.871
POINT 2	1612.000	0.106

RIISING HEAD TEST
WELL RFI-30



RISING HEAD TEST

WELL RFI-31
 DATE OF TEST: 5/30/96 THROUGH 5/31/96

STATIC WATER DEPTH = 8.43 FEET BELOW TOC
 STANDPIPE DIAMETER = 2.00 INCHES
 SANDPACK DIAMETER = 8.00 INCHES
 TOP OF SATURATED SAND = 10.00 FEET BELOW TOC
 BOTTOM OF SANDPACK = 16.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
8	35	0	0.00	15.17	-6.74	1.000	0.0000
8	35	30	0.50	15.05	-6.62	0.982	-0.0078
8	36	0	1.00	14.96	-6.53	0.969	-0.0137
8	37	0	2.00	14.76	-6.33	0.939	-0.0273
8	40	0	5.00	14.23	-5.80	0.861	-0.0652
8	45	0	10.00	14.24	-5.81	0.862	-0.0645
8	55	0	20.00	14.05	-5.62	0.834 *	-0.0789
9	5	0	30.00	13.95	-5.52	0.819	-0.0867
9	35	0	60.00	13.71	-5.28	0.783	-0.1060
10	35	0	120.00	13.32	-4.89	0.726	-0.1394
12	30	0	235.00	12.72	-4.29	0.636	-0.1962
14	24	0	349.00	12.15	-3.72	0.552	-0.2581
15	57	0	442.00	11.78	-3.35	0.497 *	-0.3036

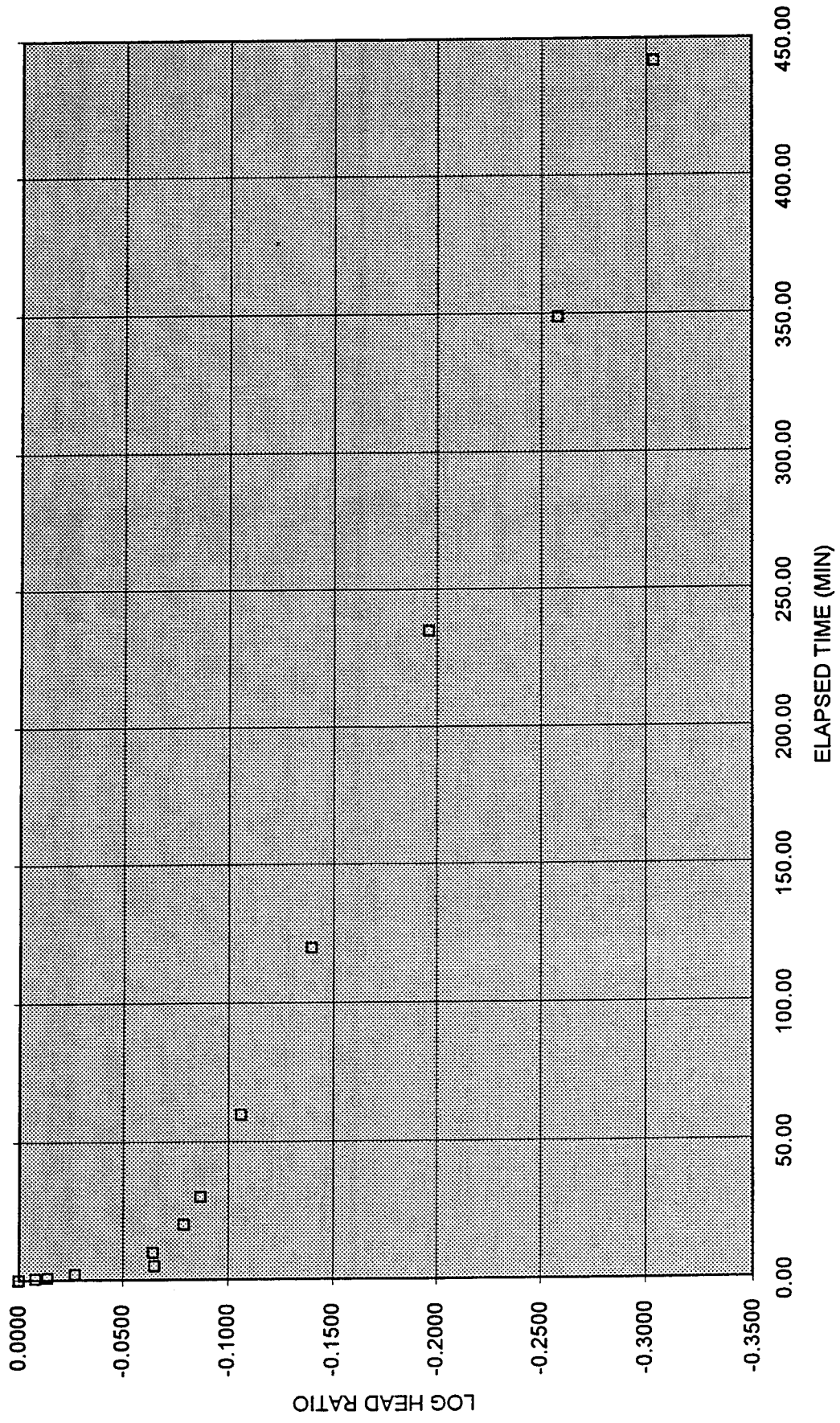
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
 WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 9.89E-07 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	20.000	0.834
POINT 2	442.000	0.497

RISING HEAD TEST
 WELL RFI-31



RISING HEAD TEST

WELL RFI-32
DATE OF TEST: 8/9/96

STATIC WATER DEPTH = 4.25 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 9.00 FEET BELOW TOC
BOTTOM OF SANDPACK = 15.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
9	32	8	0.00	11.00	-6.75	1.000	0.0000
9	33	12	1.07	10.80	-6.55	0.970	-0.0131
9	35	28	3.33	10.70	-6.45	0.956 *	-0.0197
9	39	56	7.80	10.60	-6.35	0.941	-0.0265
9	46	6	13.97	10.50	-6.25	0.926	-0.0334
9	53	7	20.98	10.40	-6.15	0.911	-0.0404
11	15	10	103.03	8.18	-3.93	0.582	-0.2349
13	6	58	214.83	6.37	-2.12	0.314	-0.5030
13	59	40	267.53	5.83	-1.58	0.234 *	-0.6306

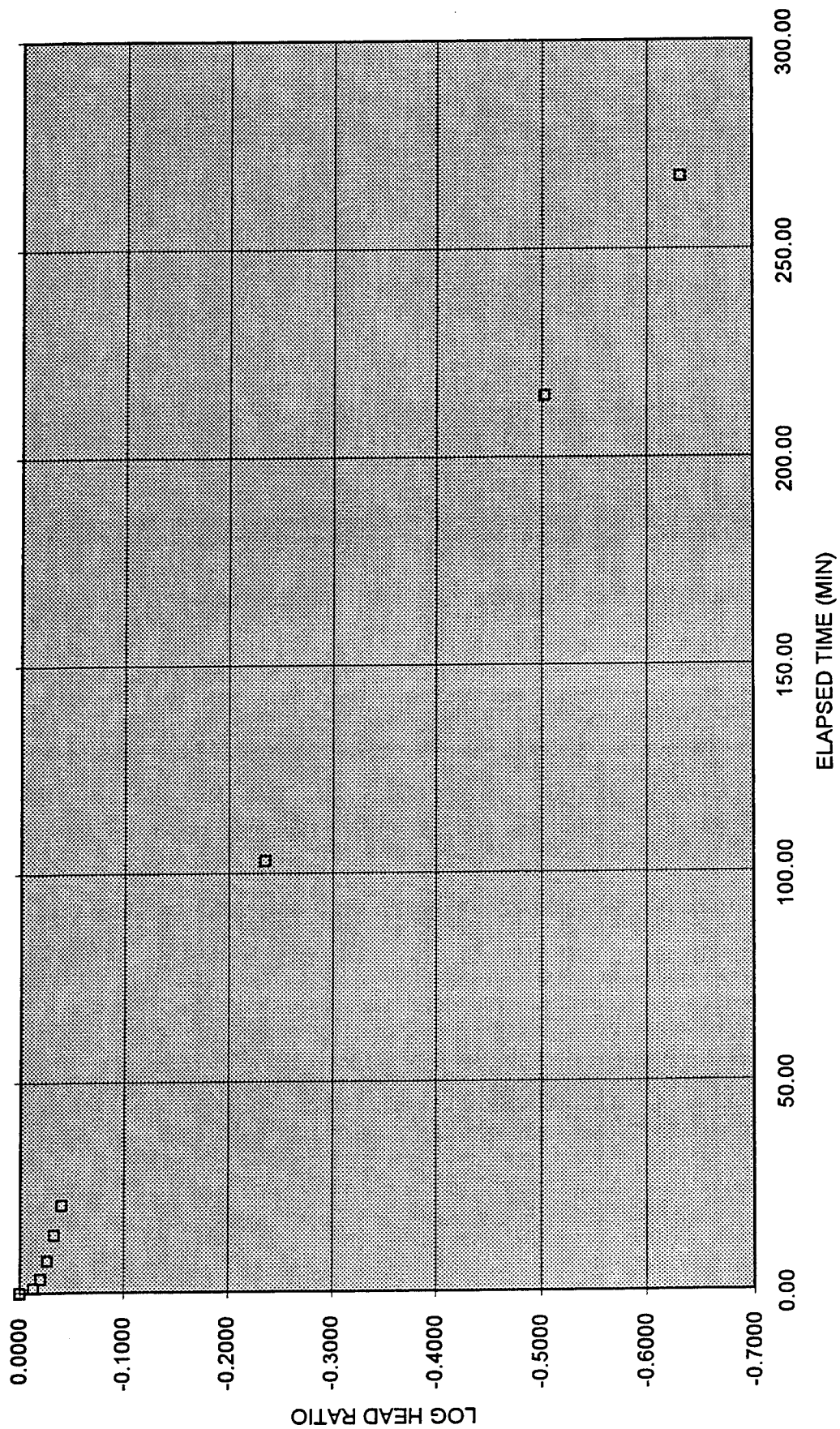
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 4.29E-06 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	3.330	0.956
POINT 2	267.530	0.234

RISING HEAD TEST
 WELL RFI-32



RISING HEAD TEST

WELL RFI-33
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 1.37 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 3.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 9.70 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/H ₀)	LOG HEAD RATIO
9	42	5	0.00	7.50	-6.13	1.000	0.0000
9	42	16	0.18	7.30	-5.93	0.967	-0.0144
9	42	37	0.53	7.10	-5.73	0.935	-0.0293
9	42	57	0.87	7.00	-5.63	0.918	-0.0370
9	43	31	1.43	6.90	-5.53	0.902	-0.0447
9	44	18	2.22	6.80	-5.43	0.886	-0.0527
9	45	33	3.47	6.70	-5.33	0.869	-0.0607
9	47	30	5.42	6.60	-5.23	0.853	-0.0690
9	50	36	8.52	6.50	-5.13	0.837	-0.0773
9	53	50	11.75	6.40	-5.03	0.821	-0.0859
9	58	31	16.43	6.30	-4.93	0.804 *	-0.0946
10	55	50	73.75	5.52	-4.15	0.677	-0.1694
11	58	0	135.92	4.92	-3.55	0.579 *	-0.2372

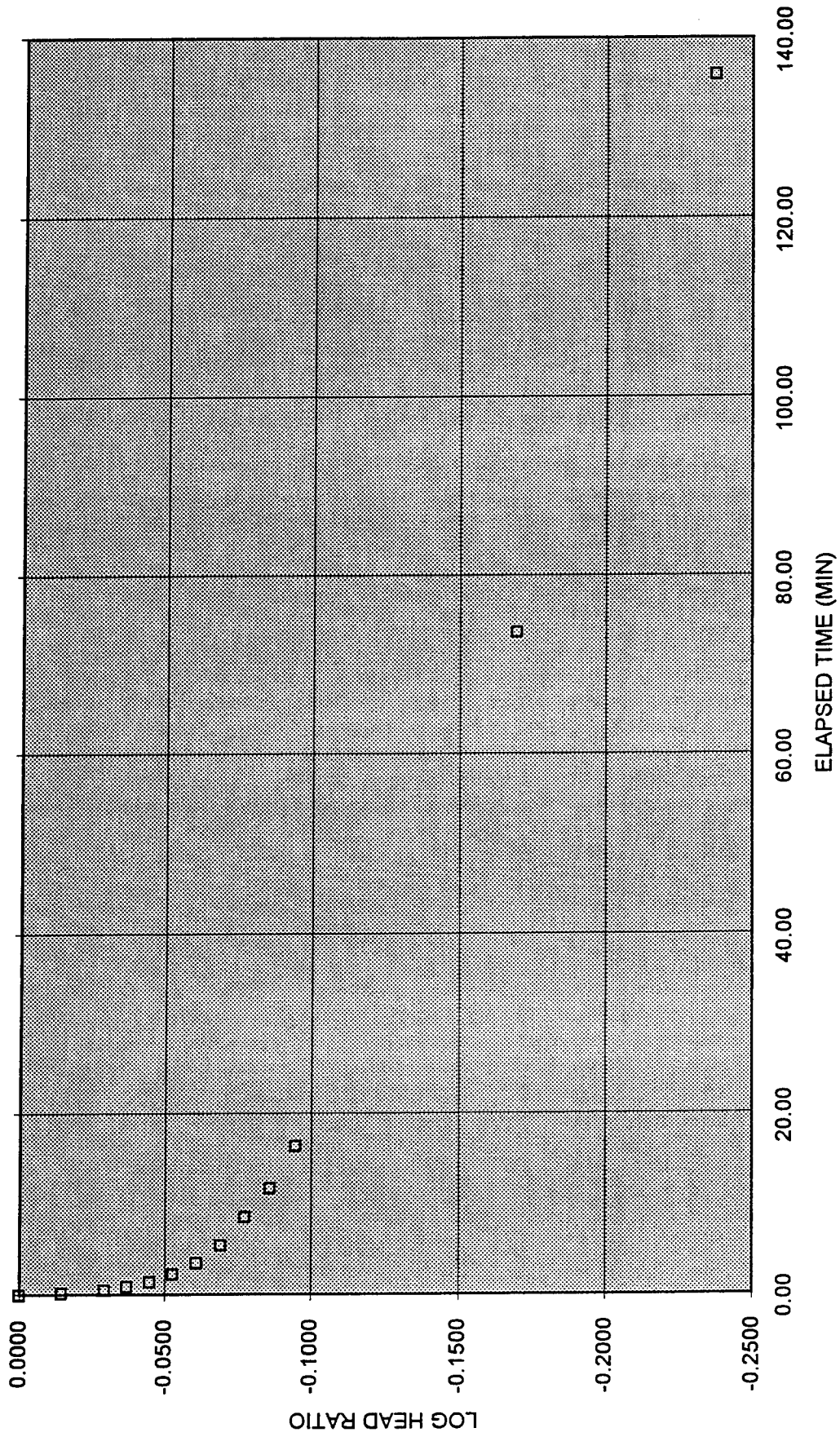
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 2.28E-06 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	16.430	0.804
POINT 2	135.920	0.579

RIISING HEAD TEST
WELL RFI-33



RISING HEAD TEST

WELL RFI-34
 DATE OF TEST: 6/19/97

STATIC WATER DEPTH = 10.83 FEET BELOW TOC
 STANDPIPE DIAMETER = 2.00 INCHES
 SANDPACK DIAMETER = 8.00 INCHES
 TOP OF SATURATED SAND = 11.70 FEET BELOW TOC
 BOTTOM OF SANDPACK = 30.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
14	36	11	0.00	13.50	-2.67	1.000 *	0.0000
14	36	13	0.03	13.20	-2.37	0.888	-0.0518
14	36	20	0.15	12.90	-2.07	0.775	-0.1105
14	36	24	0.22	12.70	-1.87	0.700	-0.1547
14	36	28	0.28	12.50	-1.67	0.625	-0.2038
14	36	34	0.38	12.30	-1.47	0.551	-0.2592
14	36	40	0.48	12.10	-1.27	0.476	-0.3227
14	36	47	0.60	11.90	-1.07	0.401	-0.3971
14	36	55	0.73	11.70	-0.87	0.326	-0.4870
14	37	7	0.93	11.50	-0.67	0.251 *	-0.6004
14	37	16	1.08	11.40	-0.57	0.213	-0.6706
14	37	25	1.23	11.30	-0.47	0.176	-0.7544

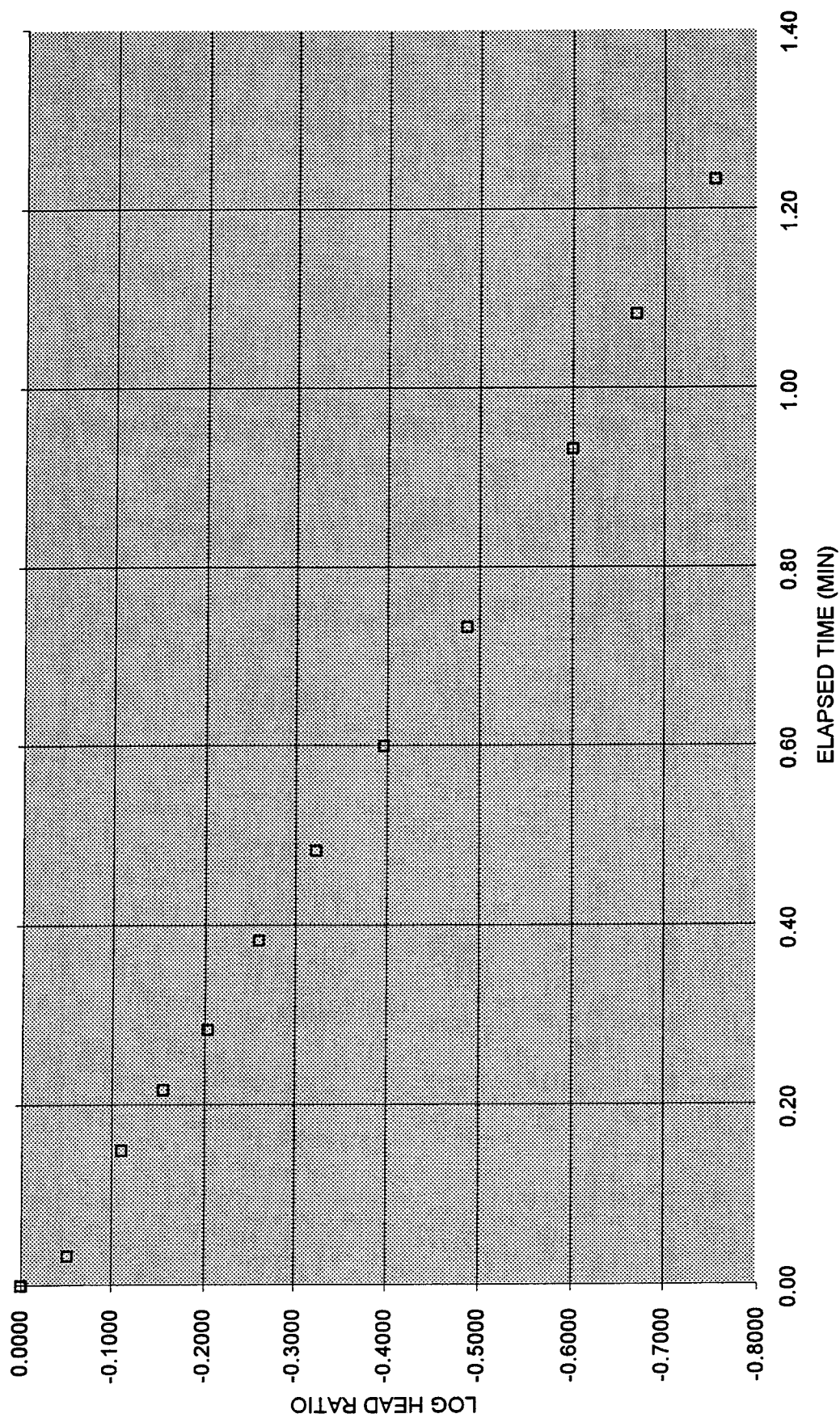
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 5.62E-04 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	0.930	0.251

RIISING HEAD TEST
WELL RFI-34



RISING HEAD TEST

WELL RFI-35
DATE OF TEST: 6/11/97

STATIC WATER DEPTH = 5.28 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 8.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 15.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
10	9	0	0.00	13.85	-8.57	1.000	0.0000
10	9	10	0.17	13.81	-8.53	0.995	-0.0020
10	9	30	0.50	13.76	-8.48	0.989	-0.0046
10	10	0	1.00	13.67	-8.39	0.979	-0.0092
10	10	30	1.50	13.60	-8.32	0.971	-0.0129
10	11	30	2.50	13.52	-8.24	0.961	-0.0171
10	12	0	3.00	13.47	-8.19	0.956	-0.0197
10	13	0	4.00	13.44	-8.16	0.952	-0.0213
10	15	0	6.00	13.37	-8.09	0.944	-0.0250
10	25	0	16.00	13.15	-7.87	0.918 *	-0.0370
10	55	0	46.00	12.78	-7.50	0.875	-0.0579
11	55	0	106.00	12.28	-7.00	0.817	-0.0879
14	13	50	244.83	11.46	-6.18	0.721	-0.1420
15	17	20	308.33	11.10	-5.82	0.679 *	-0.1681

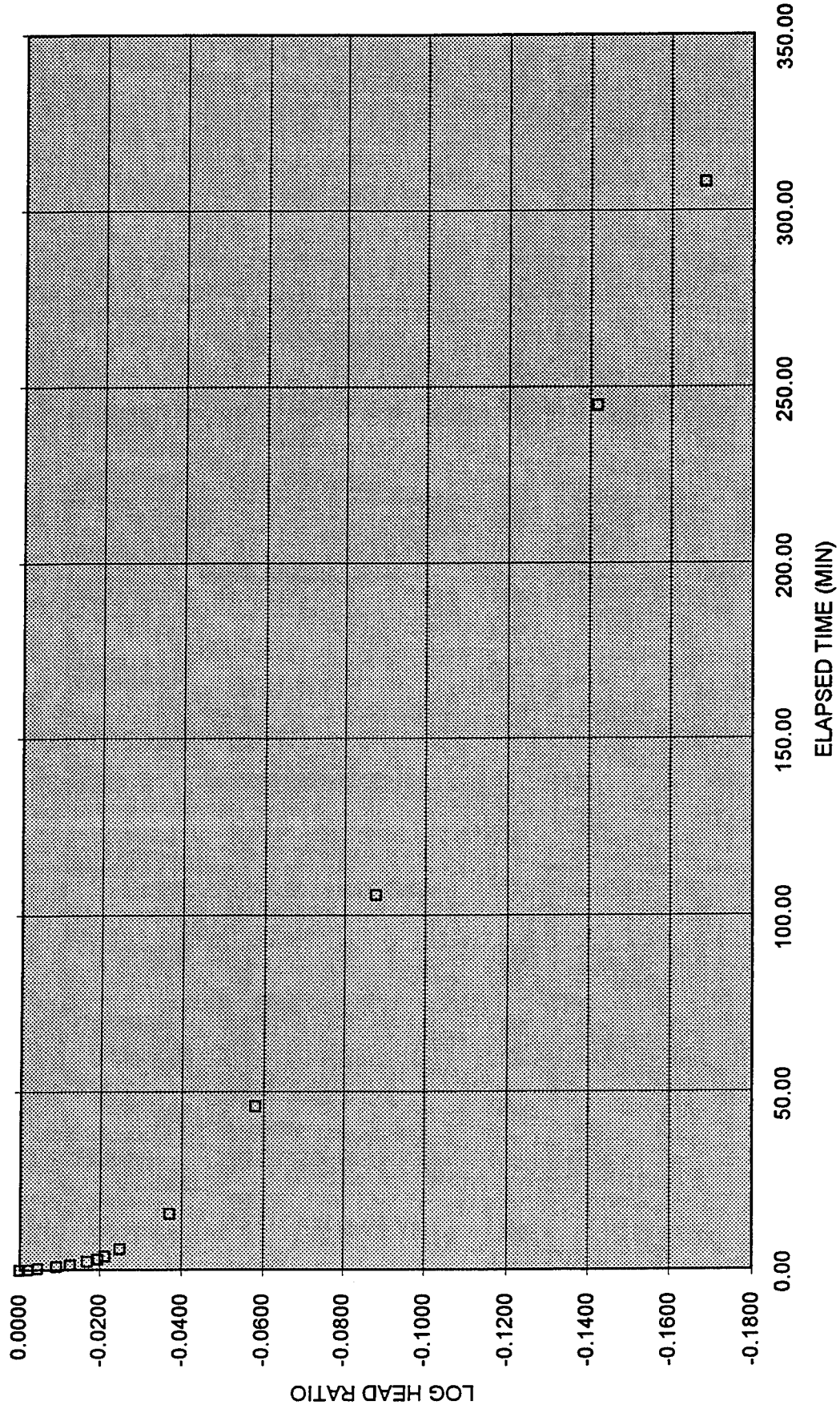
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 7.91E-07 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	16.000	0.918
POINT 2	308.330	0.679

RIISING HEAD TEST
WELL RFI-35



RISING HEAD TEST

WELL RFI-36
DATE OF TEST: 6/9/97

STATIC WATER DEPTH = 4.64 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 9.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 16.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
11	43	0	0.00	13.87	-9.23	1.000	0.0000
11	43	10	0.17	13.82	-9.18	0.995	-0.0024
11	43	20	0.33	13.72	-9.08	0.984	-0.0071
11	43	35	0.58	13.60	-8.96	0.971	-0.0129
11	43	50	0.83	13.50	-8.86	0.960	-0.0178
11	44	10	1.17	13.35	-8.71	0.944	-0.0252
11	44	30	1.50	13.22	-8.58	0.930	-0.0317
11	44	50	1.83	13.08	-8.44	0.914	-0.0389
11	45	10	2.17	12.98	-8.34	0.904	-0.0440
11	45	30	2.50	12.82	-8.18	0.886	-0.0524
11	46	0	3.00	12.63	-7.99	0.866	-0.0627
11	46	30	3.50	12.45	-7.81	0.846	-0.0726
11	47	0	4.00	12.26	-7.62	0.826	-0.0832
11	48	0	5.00	11.91	-7.27	0.788	-0.1037
11	50	0	7.00	11.04	-6.40	0.693 *	-0.1590
11	54	0	11.00	8.41	-3.77	0.408	-0.3889
11	56	0	13.00	7.54	-2.90	0.314	-0.5028
11	58	0	15.00	6.91	-2.27	0.246	-0.6092
12	0	0	17.00	6.43	-1.79	0.194	-0.7123
12	4	0	21.00	5.82	-1.18	0.128	-0.8933
12	8	0	25.00	5.47	-0.83	0.090 *	-1.0461
12	15	0	32.00	5.15	-0.51	0.055	-1.2576
12	30	0	47.00	4.89	-0.25	0.027	-1.5673

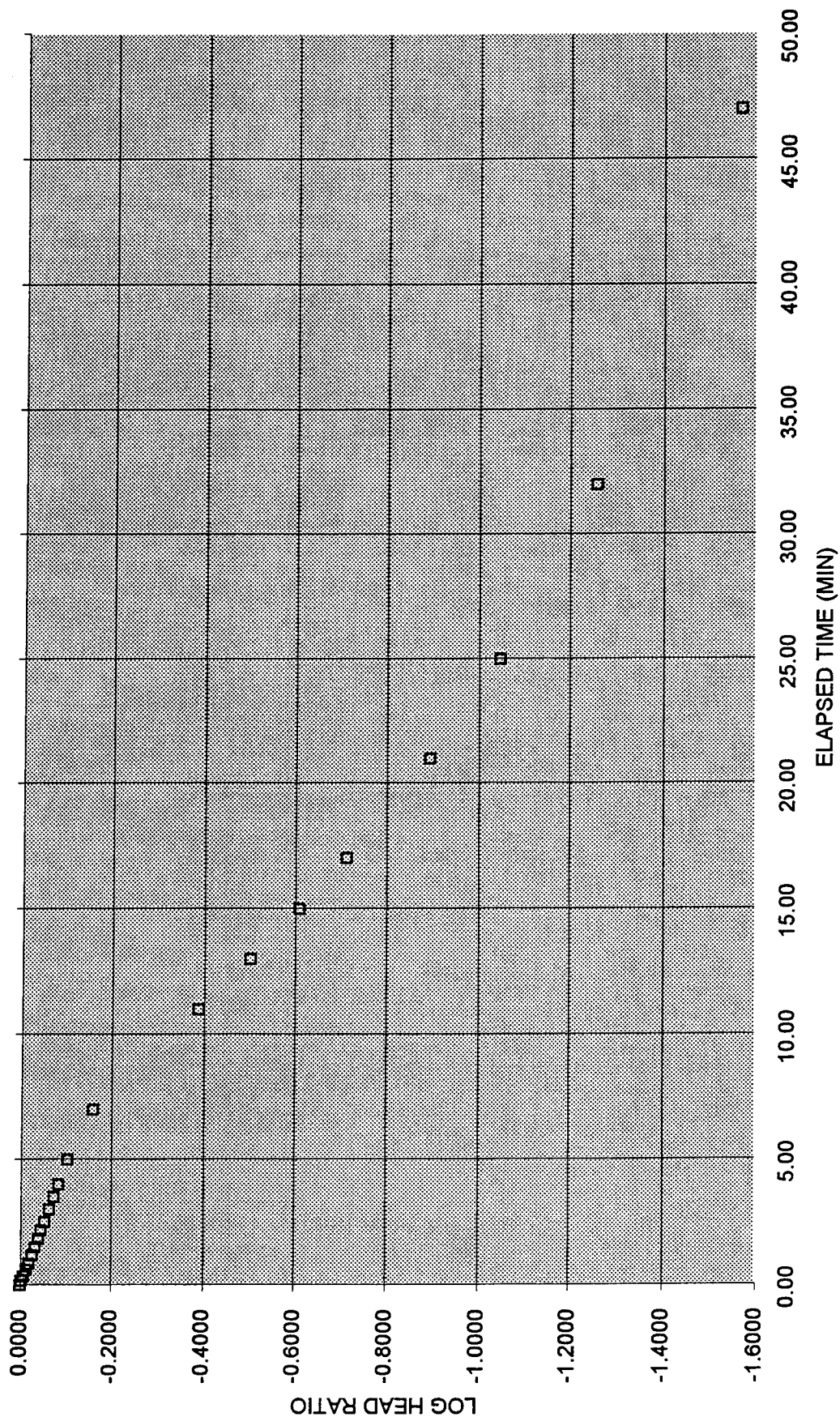
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 8.70E-05 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	7.000	0.693
POINT 2	25.000	0.090

RIISING HEAD TEST
WELL RFI-36



RISING HEAD TEST

WELL RFI-37
DATE OF TEST: 6/13/97

STATIC WATER DEPTH = 2.10 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 9.08 FEET BELOW TOC
BOTTOM OF SANDPACK = 21.08 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/H ₀)	LOG HEAD RATIO
8	58	0	0.00	18.85	-16.75	1.000	0.0000
8	58	10	0.17	18.83	-16.73	0.999	-0.0005
8	58	30	0.50	18.80	-16.70	0.997	-0.0013
8	59	0	1.00	18.76	-16.66	0.995	-0.0023
9	0	0	2.00	18.67	-16.57	0.989	-0.0047
9	1	30	3.50	18.56	-16.46	0.983	-0.0076
9	3	0	5.00	18.46	-16.36	0.977	-0.0102
9	5	0	7.00	18.34	-16.24	0.970	-0.0134
9	8	0	10.00	18.19	-16.09	0.961 *	-0.0175
9	12	0	14.00	18.01	-15.91	0.950	-0.0223
9	17	0	19.00	17.81	-15.71	0.938	-0.0278
9	23	0	25.00	17.58	-15.48	0.924	-0.0342
9	33	0	35.00	17.24	-15.14	0.904	-0.0439
9	58	0	60.00	16.34	-14.24	0.850	-0.0705
10	28	0	90.00	15.39	-13.29	0.793	-0.1005
11	18	50	140.83	14.08	-11.98	0.715	-0.1456
12	23	0	205.00	12.48	-10.38	0.620	-0.2078
13	16	20	258.33	11.42	-9.32	0.556 *	-0.2546
14	45	30	347.50	8.78	-6.68	0.399	-0.3992
16	29	20	451.33	6.22	-4.12	0.246	-0.6091

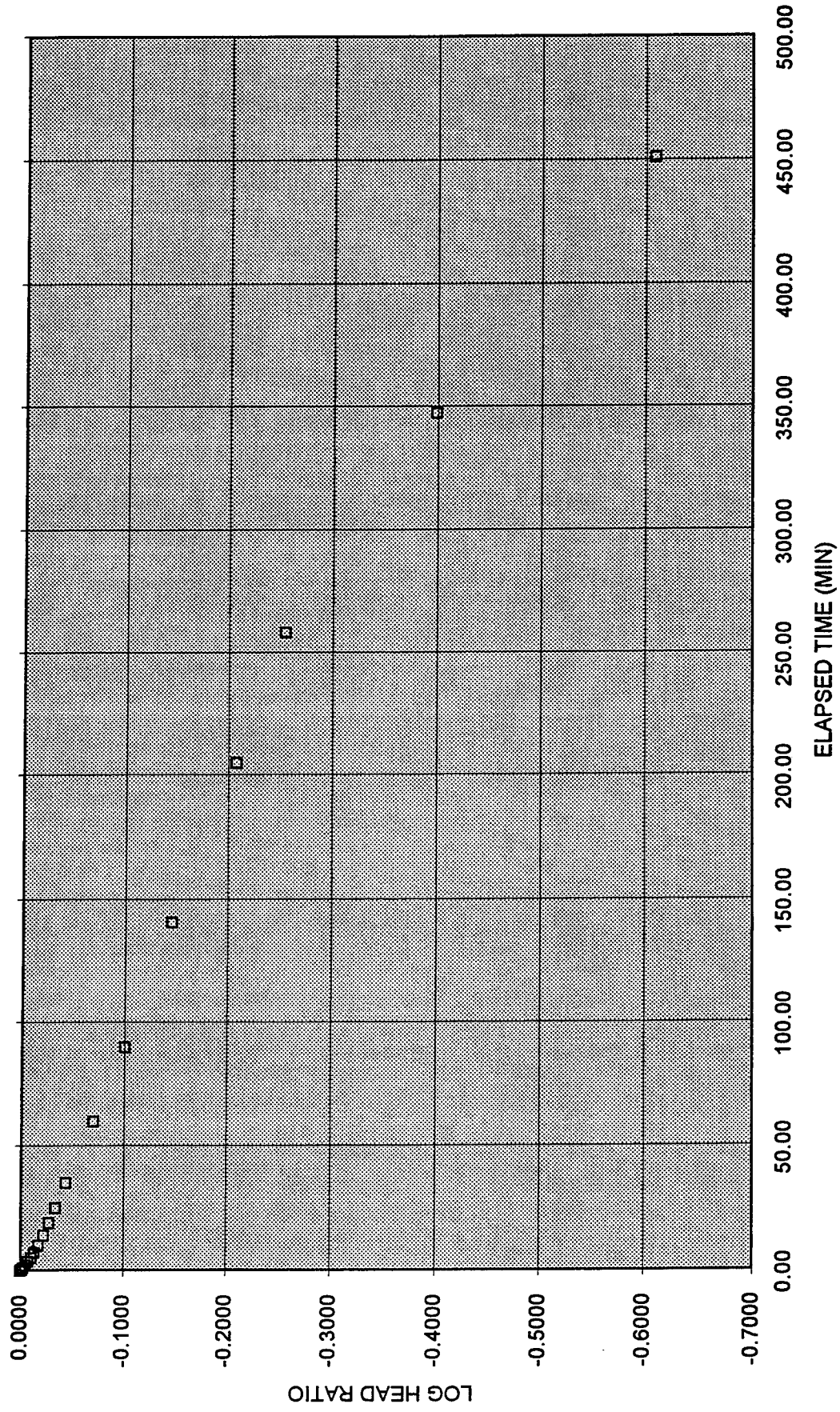
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.16E-06 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	10.000	0.961
POINT 2	258.330	0.556

RIISING HEAD TEST
WELL RFI-37



RISING HEAD TEST

WELL RFI-38
DATE OF TEST: 7/16/97

STATIC WATER DEPTH = 7.94 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 10.76 FEET BELOW TOC
BOTTOM OF SANDPACK = 27.86 FEET BELOW TOC

24 HOUR CLOCK			ELAPSED	DEPTH TO	HEAD	HEAD	LOG
HR	MIN	SEC	TIME (MIN)	WATER (FT TOC)	(FEET)	RATIO (H/Ho)	HEAD RATIO
11	55	55	0.00	8.78	-0.84	1.000 *	0.0000
11	56	3	0.13	8.54	-0.60	0.714	-0.1461
11	56	9	0.23	8.44	-0.50	0.595	-0.2253
11	56	15	0.33	8.36	-0.42	0.500	-0.3010
11	56	22	0.45	8.30	-0.36	0.429	-0.3680
11	56	29	0.57	8.24	-0.30	0.357	-0.4472
11	56	37	0.70	8.20	-0.26	0.310 *	-0.5093
11	56	46	0.85	8.17	-0.23	0.274	-0.5626
11	57	0	1.08	8.13	-0.19	0.226	-0.6455
11	57	10	1.25	8.11	-0.17	0.202	-0.6938
11	57	27	1.53	8.09	-0.15	0.179	-0.7482
11	57	43	1.80	8.08	-0.14	0.167	-0.7782

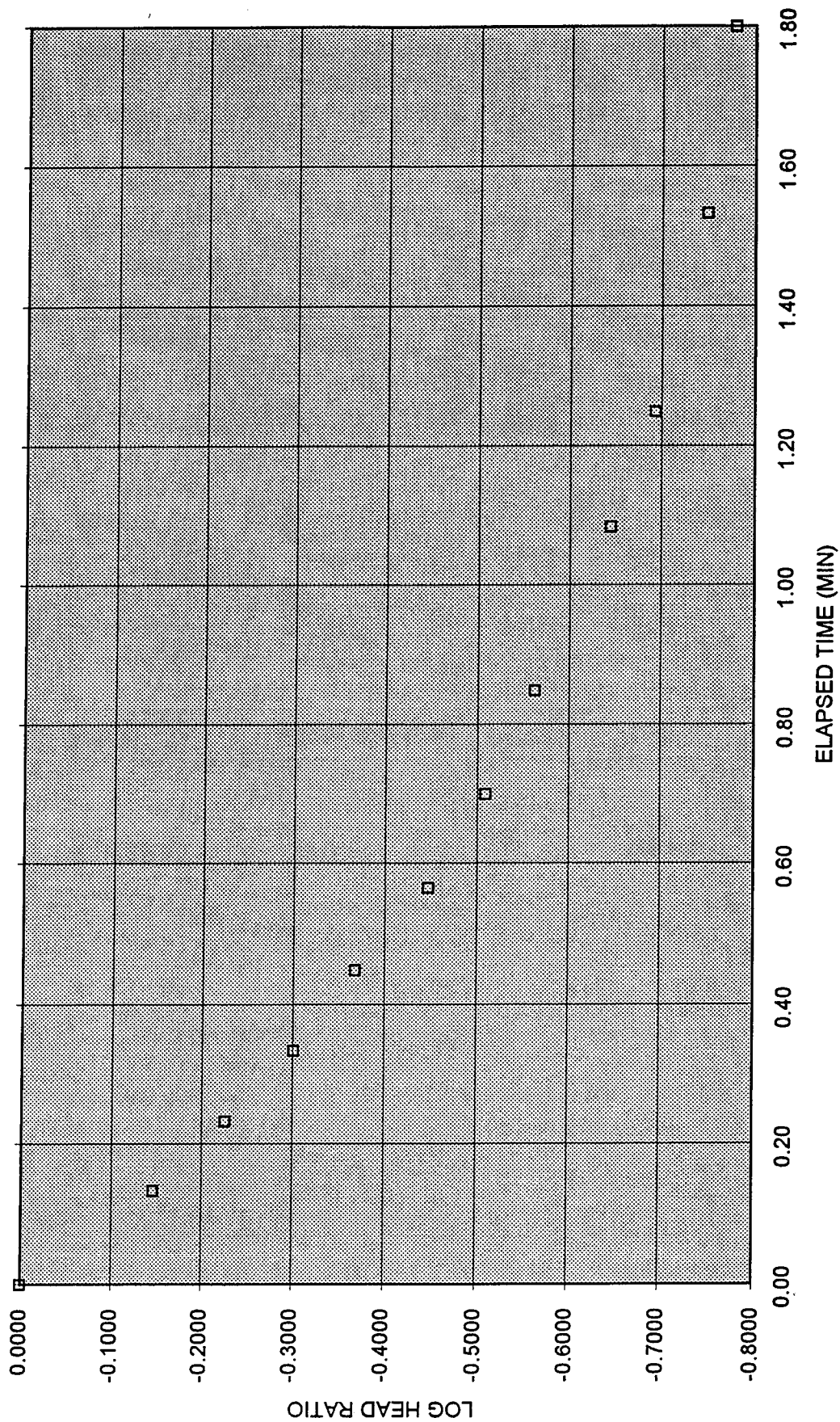
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 6.80E-04 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	0.700	0.310

RIISING HEAD TEST
WELL RFI-38



RISING HEAD TEST

WELL RFI-39
DATE OF TEST: 6/13/97

STATIC WATER DEPTH = 8.09 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 10.90 FEET BELOW TOC
BOTTOM OF SANDPACK = 23.90 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
11	43	10	0.00	16.08	-7.99	1.000 *	0.0000
11	43	20	0.17	15.70	-7.61	0.952	-0.0212
11	43	30	0.33	15.48	-7.39	0.925	-0.0339
11	44	0	0.83	14.72	-6.63	0.830	-0.0810
11	44	20	1.17	14.21	-6.12	0.766	-0.1158
11	44	40	1.50	13.73	-5.64	0.706	-0.1513
11	45	0	1.83	13.30	-5.21	0.652	-0.1857
11	45	20	2.17	12.82	-4.73	0.592	-0.2277
11	45	40	2.50	12.43	-4.34	0.543	-0.2651
11	46	0	2.83	12.12	-4.03	0.504	-0.2972
11	46	30	3.33	11.66	-3.57	0.447	-0.3499
11	47	0	3.83	11.28	-3.19	0.399	-0.3988
11	47	30	4.33	10.93	-2.84	0.355 *	-0.4492
11	48	0	4.83	10.63	-2.54	0.318	-0.4977
11	49	0	5.83	10.17	-2.08	0.260	-0.5845
11	50	0	6.83	9.79	-1.70	0.213	-0.6721
11	51	0	7.83	9.52	-1.43	0.179	-0.7472
11	53	0	9.83	9.13	-1.04	0.130	-0.8855
11	55	0	11.83	8.87	-0.78	0.098	-1.0105
11	57	0	13.83	8.70	-0.61	0.076	-1.1172
11	59	0	15.83	8.59	-0.50	0.063	-1.2036
12	1	0	17.83	8.50	-0.41	0.051	-1.2898
12	4	0	20.83	8.41	-0.32	0.040	-1.3974
12	10	0	26.83	8.32	-0.23	0.029	-1.5408

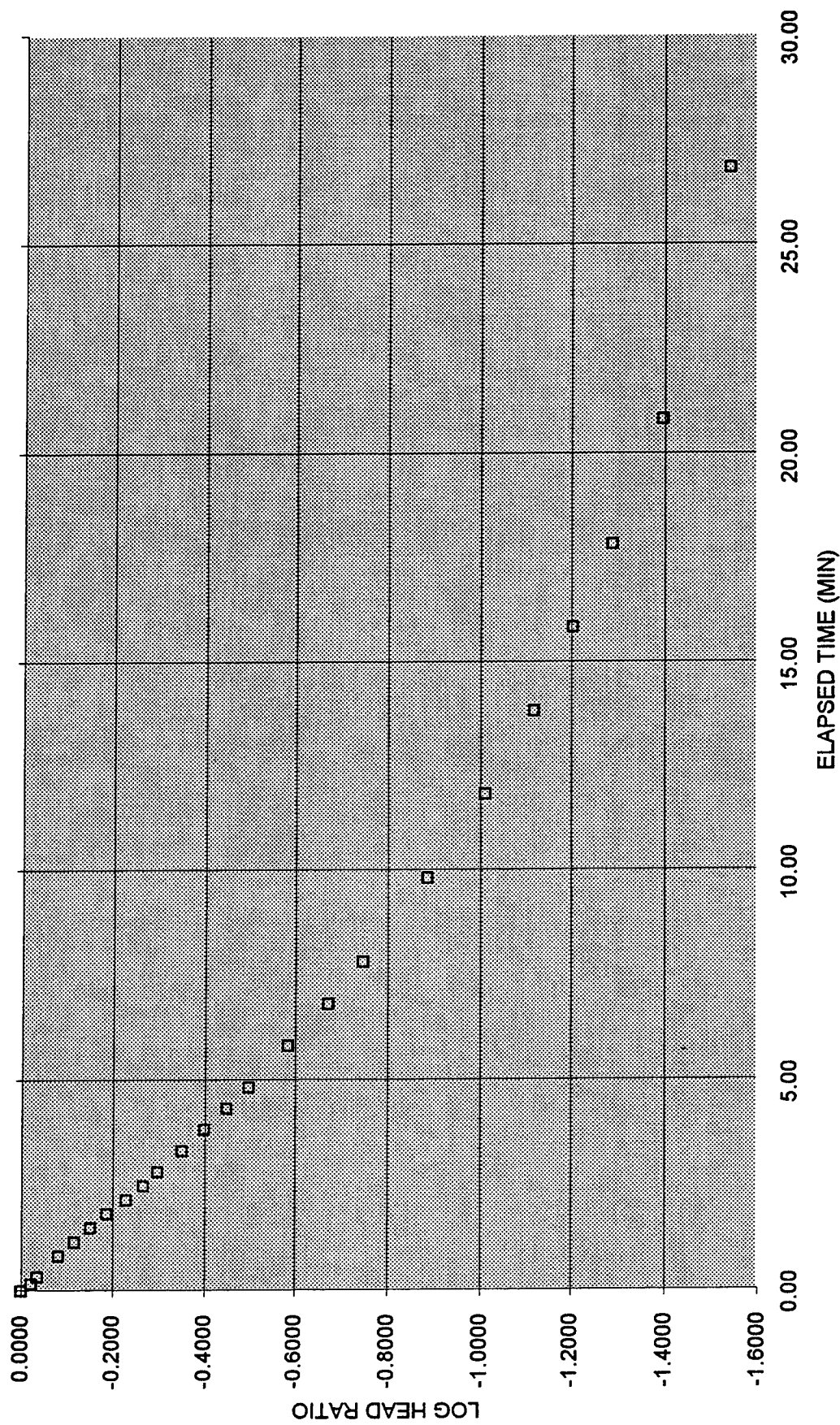
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.19E-04 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	4.330	0.355

RIISING HEAD TEST
WELL RFI-39



RISING HEAD TEST

WELL RFI-40
DATE OF TEST: 6/13/97

STATIC WATER DEPTH = 11.39 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 16.30 FEET BELOW TOC
BOTTOM OF SANDPACK = 32.80 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
13	47	10	0.00	15.09	-3.70	1.000	0.0000
13	47	20	0.17	14.70	-3.31	0.895	-0.0484
13	47	40	0.50	14.18	-2.79	0.754	-0.1226
13	48	0	0.83	13.67	-2.28	0.616 *	-0.2103
13	48	20	1.17	13.20	-1.81	0.489	-0.3105
13	48	40	1.50	12.84	-1.45	0.392	-0.4068
13	49	0	1.83	12.54	-1.15	0.311	-0.5075
13	49	20	2.17	12.27	-0.88	0.238	-0.6237
13	49	40	2.50	12.07	-0.68	0.184	-0.7357
13	50	0	2.83	11.92	-0.53	0.143	-0.8439
13	50	20	3.17	11.81	-0.42	0.114 *	-0.9450
13	50	40	3.50	11.68	-0.29	0.078	-1.1058
13	51	0	3.83	11.62	-0.23	0.062	-1.2065
13	51	20	4.17	11.55	-0.16	0.043	-1.3641
13	51	40	4.50	11.52	-0.13	0.035	-1.4543
13	52	0	4.83	11.48	-0.09	0.024	-1.6140

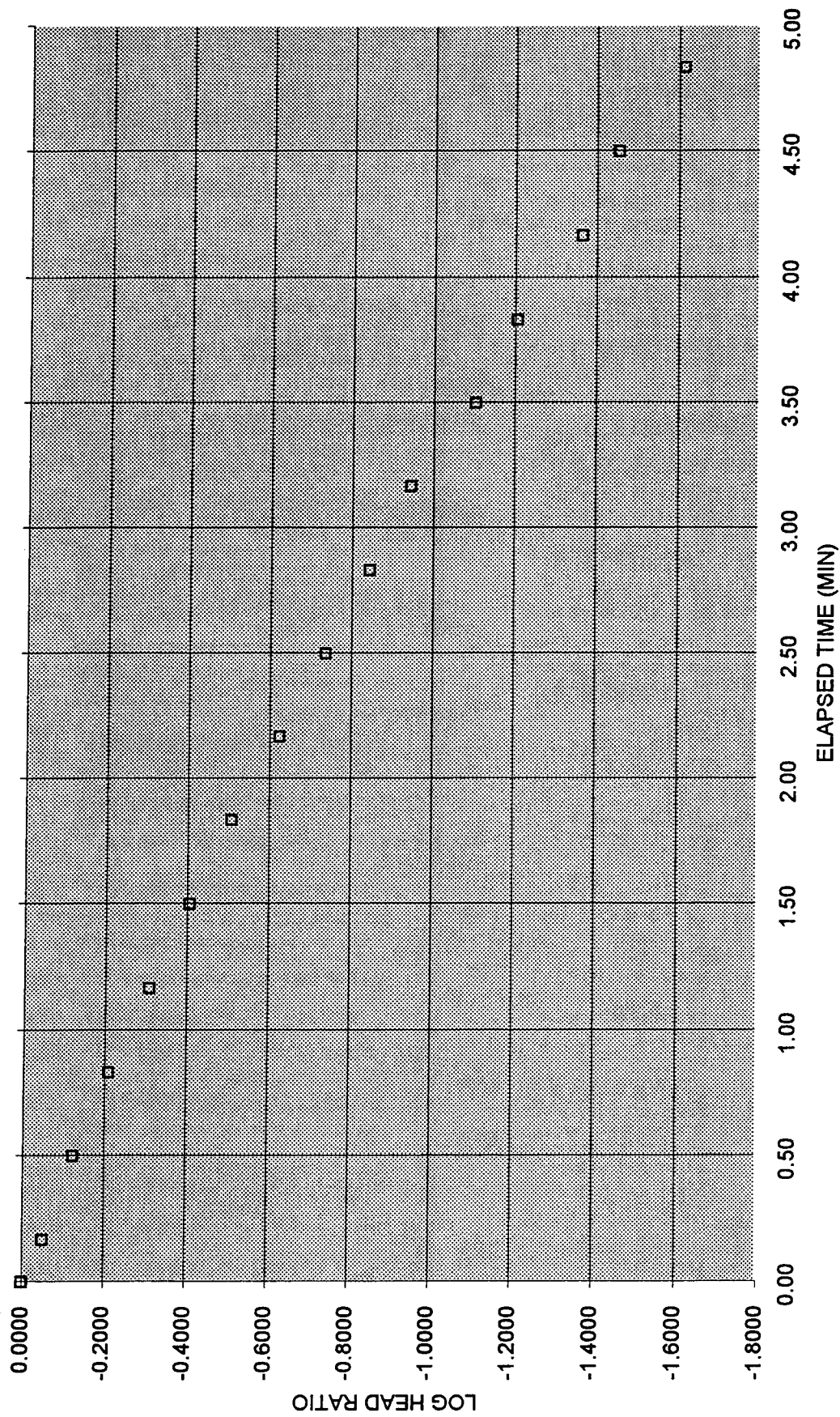
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 3.01E-04 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.830	0.616
POINT 2	3.170	0.114

RIISING HEAD TEST
WELL RFI-40



RISING HEAD TEST

WELL RFI-41
DATE OF TEST: 6/19/97

STATIC WATER DEPTH = 11.42 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 17.00 FEET BELOW TOC
BOTTOM OF SANDPACK = 28.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/H ₀)	LOG HEAD RATIO
15	5	9	0.00	14.90	-3.48	1.000 *	0.0000
15	5	13	0.07	14.70	-3.28	0.943	-0.0257
15	5	16	0.12	14.50	-3.08	0.885	-0.0530
15	5	20	0.18	14.30	-2.88	0.828	-0.0822
15	5	25	0.27	14.10	-2.68	0.770	-0.1134
15	5	31	0.37	13.90	-2.48	0.713	-0.1471
15	5	35	0.43	13.70	-2.28	0.655	-0.1836
15	5	42	0.55	13.50	-2.08	0.598	-0.2235
15	5	48	0.65	13.30	-1.88	0.540	-0.2674
15	5	55	0.77	13.10	-1.68	0.483	-0.3163
15	6	0	0.85	13.00	-1.58	0.454	-0.3429
15	6	3	0.90	12.90	-1.48	0.425	-0.3713
15	6	9	1.00	12.80	-1.38	0.397	-0.4017
15	6	12	1.05	12.70	-1.28	0.368	-0.4344
15	6	18	1.15	12.60	-1.18	0.339	-0.4697
15	6	22	1.22	12.50	-1.08	0.310	-0.5082
15	6	28	1.32	12.40	-0.98	0.282	-0.5504
15	6	35	1.43	12.30	-0.88	0.253	-0.5971
15	6	42	1.55	12.20	-0.78	0.224	-0.6495
15	6	51	1.70	12.10	-0.68	0.195	-0.7091
15	6	58	1.82	12.00	-0.58	0.167 *	-0.7782
15	7	10	2.02	11.90	-0.48	0.138	-0.8603
15	7	23	2.23	11.80	-0.38	0.109	-0.9618
15	7	40	2.52	11.70	-0.28	0.080	-1.0944
15	8	5	2.93	11.60	-0.18	0.052	-1.2863
15	8	52	3.72	11.50	-0.08	0.023	-1.6385

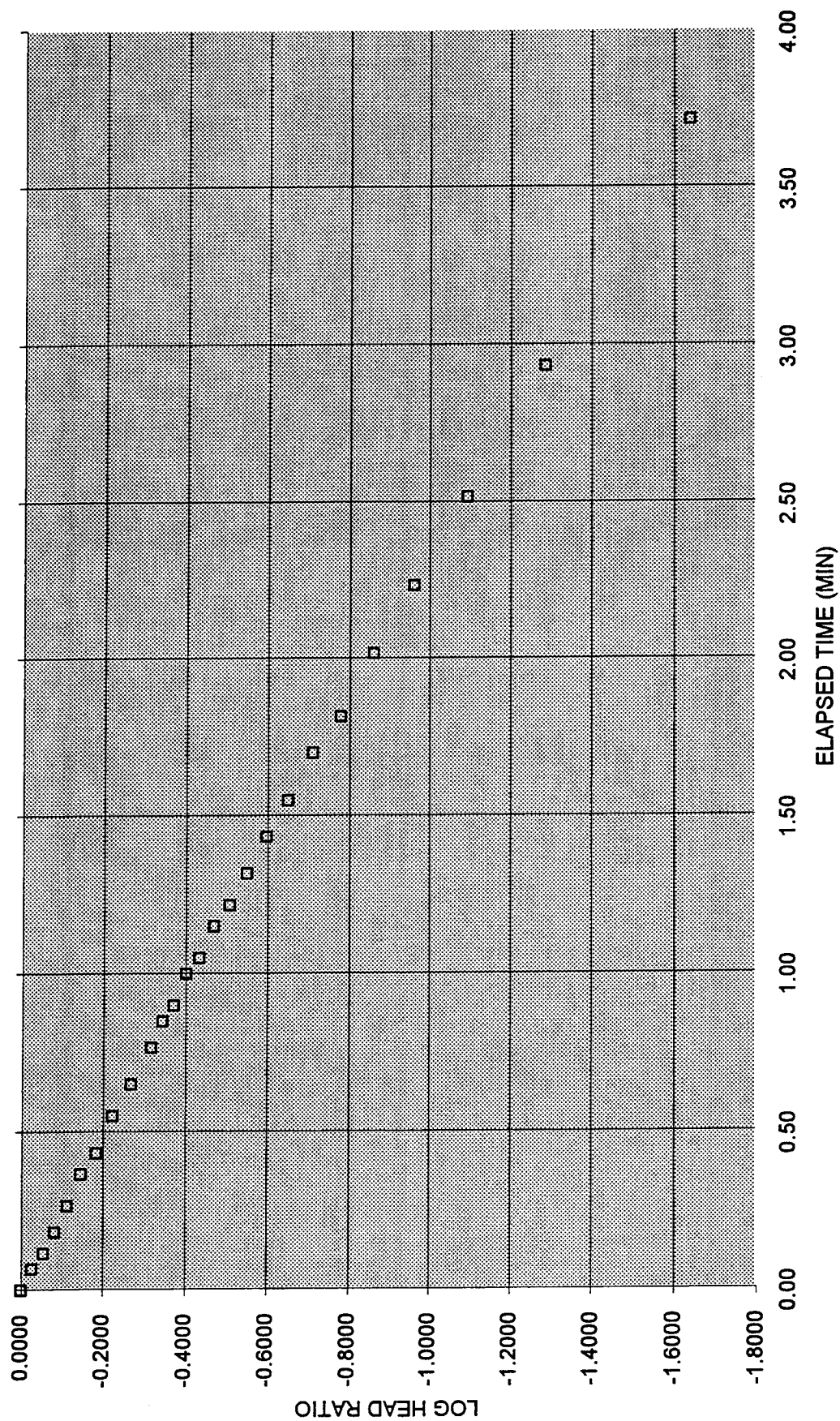
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 5.34E-04 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	1.820	0.167

RIISING HEAD TEST
WELL RFI-41



RISING HEAD TEST

WELL RFI-42
DATE OF TEST: 6/9/97

STATIC WATER DEPTH = 4.44 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 4.44 FEET BELOW TOC
BOTTOM OF SANDPACK = 11.17 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/H ₀)	LOG HEAD RATIO
8	15	0	0.00	10.42	-5.98	1.000	0.0000
8	15	10	0.17	10.40	-5.96	0.997	-0.0015
8	15	20	0.33	10.38	-5.94	0.993	-0.0029
8	15	30	0.50	10.34	-5.90	0.987	-0.0058
8	15	45	0.75	10.32	-5.88	0.983	-0.0073
8	15	55	0.92	10.29	-5.85	0.978	-0.0095
8	16	10	1.17	10.25	-5.81	0.972	-0.0125
8	16	25	1.42	10.21	-5.77	0.965	-0.0155
8	16	40	1.67	10.19	-5.75	0.962	-0.0170
8	16	55	1.92	10.17	-5.73	0.958	-0.0185
8	17	15	2.25	10.13	-5.69	0.952	-0.0216
8	17	30	2.50	10.10	-5.66	0.946	-0.0239
8	18	0	3.00	10.04	-5.60	0.936	-0.0285
8	18	30	3.50	10.00	-5.56	0.930	-0.0316
8	19	0	4.00	9.93	-5.49	0.918	-0.0371
8	20	0	5.00	9.89	-5.45	0.911	-0.0403
8	22	0	7.00	9.80	-5.36	0.896	-0.0475
8	25	0	10.00	9.71	-5.27	0.881	-0.0549
8	30	0	15.00	9.58	-5.14	0.860 *	-0.0657
8	35	0	20.00	9.45	-5.01	0.838	-0.0769
8	55	0	40.00	9.02	-4.58	0.766	-0.1158
9	36	15	81.25	8.30	-3.86	0.645	-0.1901
10	10	0	115.00	7.87	-3.43	0.574	-0.2414
11	0	0	165.00	7.30	-2.86	0.478 *	-0.3203
12	43	0	268.00	6.66	-2.22	0.371	-0.4303
14	23	40	368.67	6.22	-1.78	0.298	-0.5263
16	20	45	485.75	5.46	-1.02	0.171	-0.7681

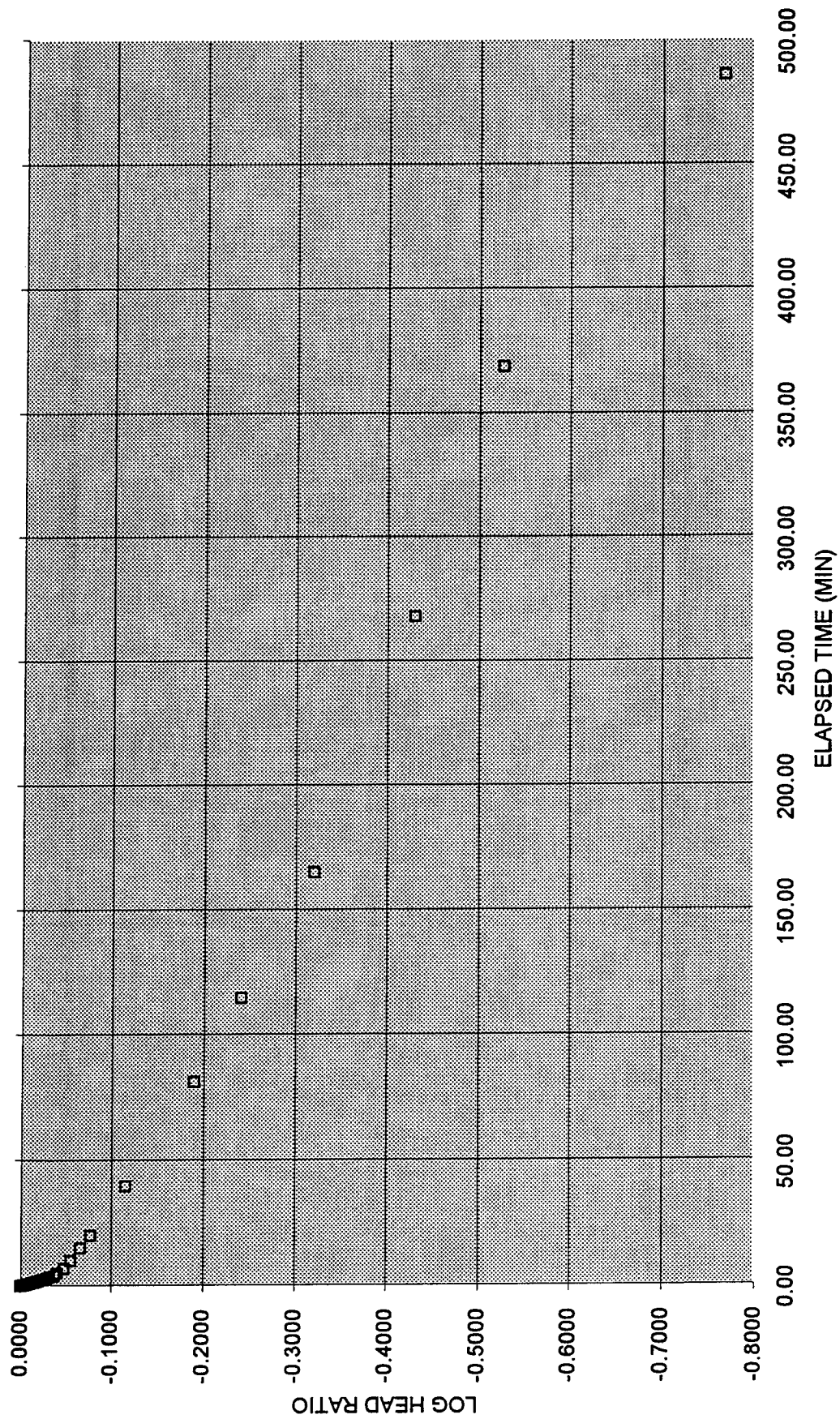
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 3.08E-06 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	15.000	0.860
POINT 2	165.000	0.478

RIISING HEAD TEST
WELL RFI-42



October 1997

963-9117

RISING HEAD TEST

WELL RFI-43
DATE OF TEST: 6/11/97

STATIC WATER DEPTH = 5.27 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 9.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 16.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
8	25	0	0.00	15.29	-10.02	1.000	0.0000
8	25	10	0.17	15.26	-9.99	0.997	-0.0013
8	25	30	0.50	15.20	-9.93	0.991	-0.0039
8	25	50	0.83	15.13	-9.86	0.984	-0.0070
8	26	0	1.00	15.10	-9.83	0.981	-0.0083
8	26	30	1.50	15.02	-9.75	0.973	-0.0119
8	27	0	2.00	14.92	-9.65	0.963	-0.0163
8	27	30	2.50	14.87	-9.60	0.958	-0.0186
8	28	0	3.00	14.83	-9.56	0.954	-0.0204
8	28	30	3.50	14.80	-9.53	0.951	-0.0218
8	29	0	4.00	14.78	-9.51	0.949	-0.0227
8	29	30	4.50	14.76	-9.49	0.947	-0.0236
8	30	0	5.00	14.74	-9.47	0.945	-0.0245
8	31	0	6.00	14.72	-9.45	0.943	-0.0254
8	32	0	7.00	14.69	-9.42	0.940	-0.0268
8	34	0	9.00	14.64	-9.37	0.935	-0.0291
8	40	0	15.00	14.51	-9.24	0.922 *	-0.0352
8	55	0	30.00	14.25	-8.98	0.896	-0.0476
9	35	0	70.00	13.64	-8.37	0.835	-0.0781
10	35	0	130.00	13.12	-7.85	0.783	-0.1060
11	45	0	200.00	12.48	-7.21	0.720	-0.1429
12	45	0	260.00	12.01	-6.74	0.673	-0.1722
14	2	40	337.67	11.48	-6.21	0.620 *	-0.2078

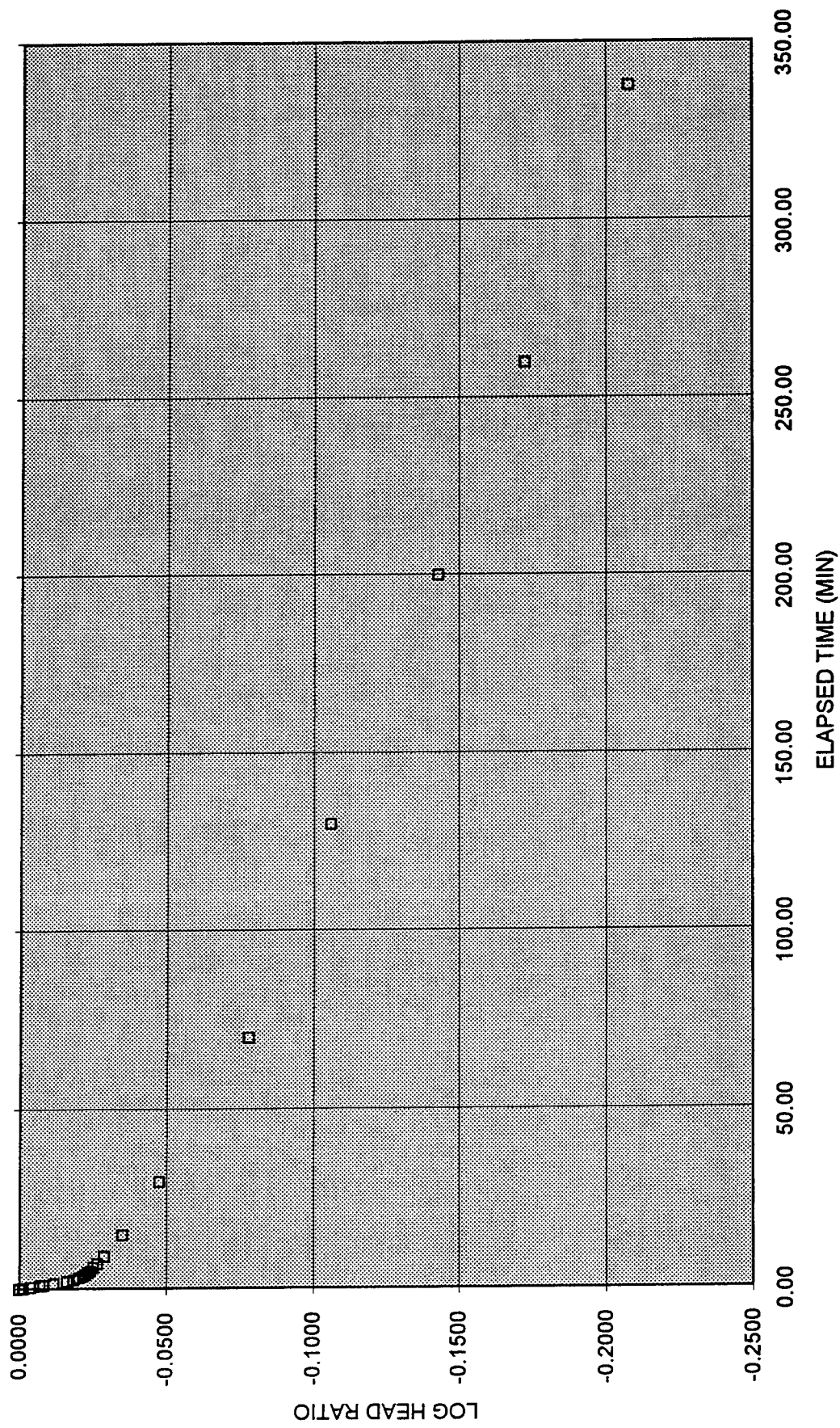
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.32E-06 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	15.000	0.922
POINT 2	420.170	0.460

RIISING HEAD TEST
WELL RFI-43



RISING HEAD TEST

PIEZOMETER RFI-PZ16
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 4.90 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 10.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 16.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
0	0	0	0.00	4.99	-0.09	1.000 *	0.0000
0	0	1	0.02	4.99	-0.09	1.000	0.0000
0	0	2	0.03	4.95	-0.05	0.556	-0.2553
0	0	4	0.07	4.94	-0.04	0.444	-0.3522
0	0	5	0.08	4.95	-0.05	0.556	-0.2553
0	0	7	0.12	4.94	-0.04	0.444	-0.3522
0	0	8	0.13	4.94	-0.04	0.444	-0.3522
0	0	9	0.15	4.92	-0.02	0.222	-0.6532
0	0	10	0.17	4.93	-0.03	0.333	-0.4771
0	0	11	0.18	4.93	-0.03	0.333	-0.4771
0	0	12	0.20	4.92	-0.02	0.222	-0.6532
0	0	13	0.22	4.92	-0.02	0.222	-0.6532
0	0	14	0.23	4.93	-0.03	0.333	-0.4771
0	0	15	0.25	4.92	-0.02	0.222	-0.6532
0	0	16	0.27	4.92	-0.02	0.222 *	-0.6532
0	0	17	0.28	4.93	-0.03	0.333	-0.4771
0	0	18	0.30	4.92	-0.02	0.222	-0.6532
0	0	19	0.32	4.93	-0.03	0.333	-0.4771

NOTES:

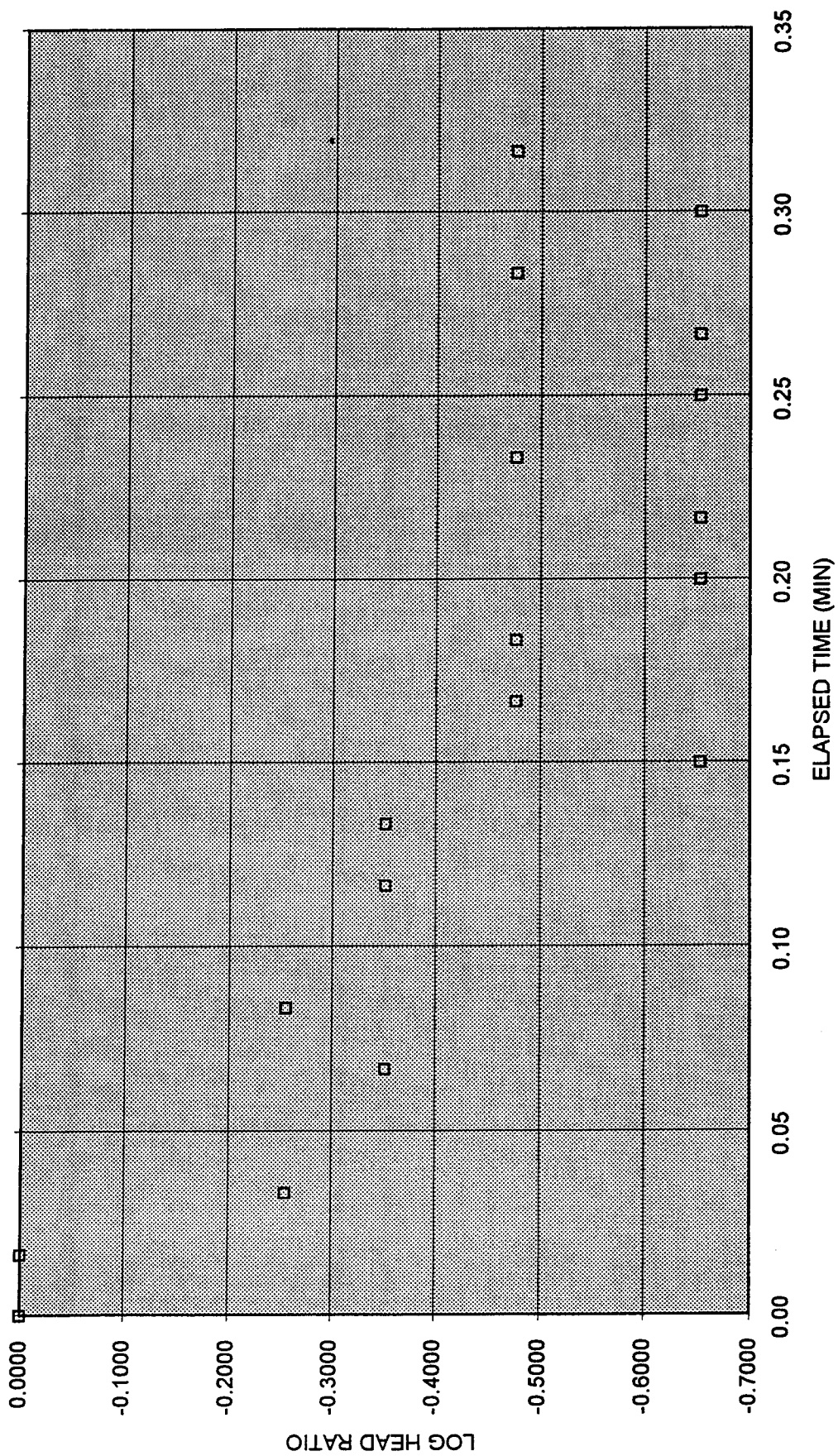
- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K> 4.74E-03 CM/SEC (See Note)

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	0.270	0.222

Note: Test results approximate. High hydraulic conductivity at this location produced little drawdown and very quick recovery.

RIISING HEAD TEST
PIEZOMETER RFI-PZ16



FALLING HEAD TEST

PIEZOMETER RFI-PZ17
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 11.36 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 11.36 FEET BELOW TOC
BOTTOM OF SANDPACK = 16.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
0	0	32	0.00	9.70	1.66	1.000 *	0.0000
0	0	132	1.67	9.84	1.52	0.916	-0.0383
0	0	232	3.33	9.93	1.43	0.861	-0.0648
0	0	332	5.00	10.02	1.34	0.807	-0.0930
0	0	432	6.67	10.10	1.26	0.759	-0.1197
0	0	532	8.33	10.18	1.18	0.711	-0.1482
0	0	632	10.00	10.25	1.11	0.669	-0.1748
0	0	732	11.67	10.30	1.06	0.639	-0.1948
0	0	832	13.33	10.36	1.00	0.602	-0.2201
0	0	932	15.00	10.41	0.95	0.572 *	-0.2424
0	0	1032	16.67	10.45	0.91	0.548	-0.2611
0	0	1132	18.33	10.49	0.87	0.524	-0.2806
0	0	1232	20.00	10.54	0.82	0.494	-0.3063

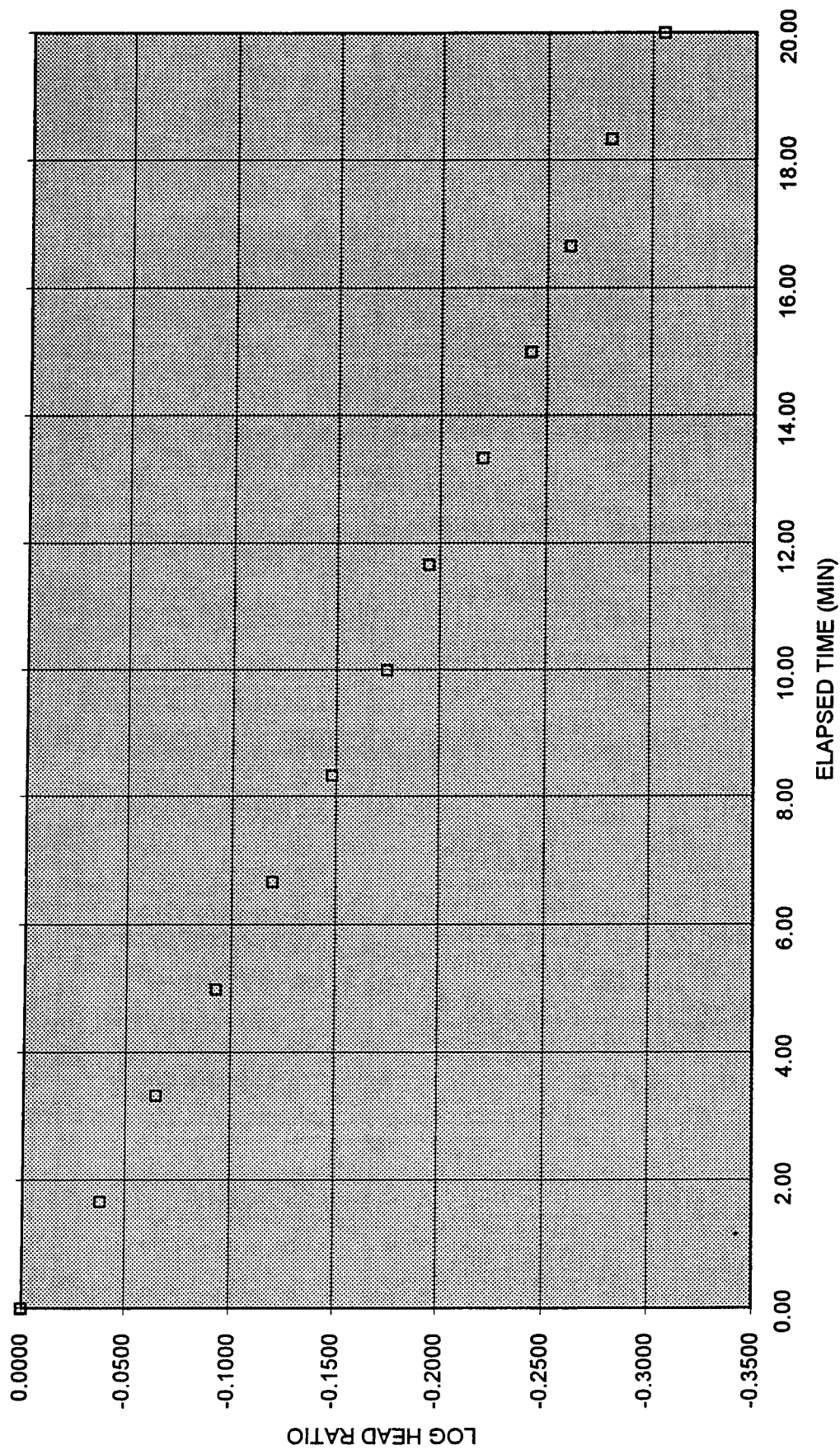
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 3.50E-05 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	15.000	0.572

FALLING HEAD TEST
PIEZOMETER RFI-PZ17



RISING HEAD TEST

PIEZOMETER RFI-PZ18
DATE OF TEST: 8/9/96

STATIC WATER DEPTH = 8.04 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 11.00 FEET BELOW TOC
BOTTOM OF SANDPACK = 14.90 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
11	31	20	0.00	13.50	-5.46	1.000 *	0.0000
11	31	55	0.58	13.20	-5.16	0.945	-0.0245
11	32	39	1.32	13.10	-5.06	0.927	-0.0330
11	34	24	3.07	13.00	-4.96	0.908	-0.0417
11	36	22	5.03	12.90	-4.86	0.890	-0.0506
11	39	4	7.73	12.80	-4.76	0.872	-0.0596
11	40	48	9.47	12.70	-4.66	0.853 *	-0.0688
11	42	32	11.20	12.60	-4.56	0.835	-0.0782
11	44	0	12.67	12.50	-4.46	0.817	-0.0879
11	45	25	14.08	12.40	-4.36	0.799	-0.0977
11	46	40	15.33	12.30	-4.26	0.780	-0.1078
11	48	20	17.00	12.20	-4.16	0.762	-0.1181

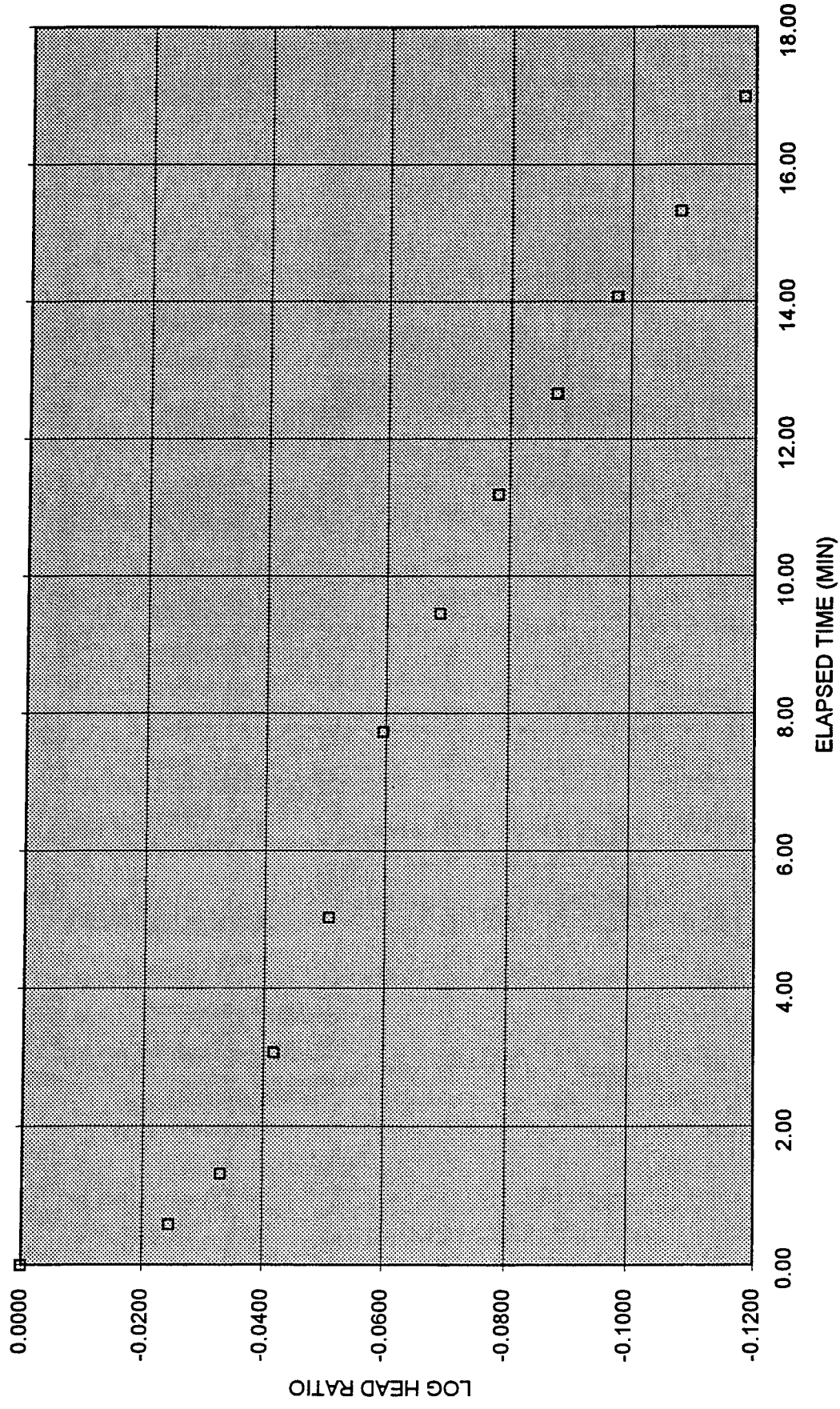
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.78E-05 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	17.000	0.762

RIISING HEAD TEST
PIEZOMETER RFI-PZ18



RISING HEAD TEST

PIEZOMETER RFI-PZ19
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 11.42 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 16.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 30.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/H ₀)	LOG HEAD RATIO
0	0	49	0.00	12.51	-1.09	1.000	0.0000
0	0	69	0.33	12.31	-0.89	0.817 *	-0.0880
0	0	89	0.67	12.24	-0.82	0.752	-0.1236
0	0	109	1.00	12.17	-0.75	0.688	-0.1624
0	0	129	1.33	12.12	-0.70	0.642	-0.1923
0	0	149	1.67	12.07	-0.65	0.596	-0.2245
0	0	169	2.00	12.02	-0.60	0.550	-0.2593
0	0	189	2.33	11.98	-0.56	0.514	-0.2892
0	0	209	2.67	11.93	-0.51	0.468	-0.3299
0	0	229	3.00	11.90	-0.48	0.440 *	-0.3562
0	0	237	3.13	11.90	-0.48	0.440	-0.3562

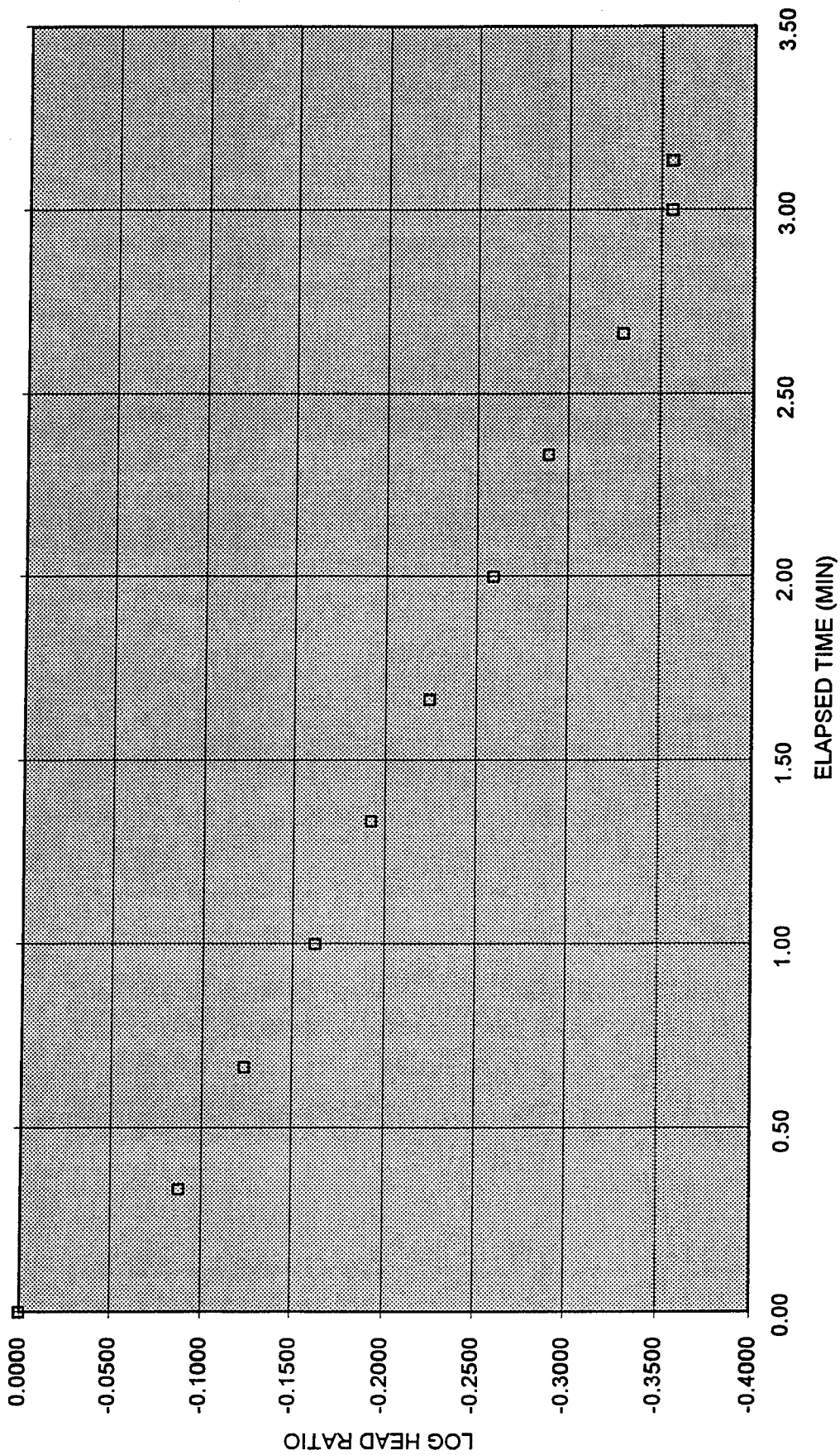
NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 1.09E-04 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.330	0.817
POINT 2	3.000	0.440

RIISING HEAD TEST
PIEZOMETER RFI-PZ19



RISING HEAD TEST

PIEZOMETER RFI-PZ20
DATE OF TEST: 8/12/96

STATIC WATER DEPTH = 11.16 FEET BELOW TOC
STANDPIPE DIAMETER = 2.00 INCHES
SANDPACK DIAMETER = 8.00 INCHES
TOP OF SATURATED SAND = 18.50 FEET BELOW TOC
BOTTOM OF SANDPACK = 30.50 FEET BELOW TOC

24 HOUR CLOCK HR	MIN	SEC	ELAPSED TIME (MIN)	DEPTH TO WATER (FT TOC)	HEAD (FEET)	HEAD RATIO (H/Ho)	LOG HEAD RATIO
0	0	71	0.00	12.66	-1.50	1.000 *	0.0000
0	0	81	0.17	12.40	-1.24	0.827	-0.0827
0	0	91	0.33	12.22	-1.06	0.707	-0.1508
0	0	101	0.50	12.07	-0.91	0.607	-0.2170
0	0	111	0.67	11.94	-0.78	0.520	-0.2840
0	0	121	0.83	11.81	-0.65	0.433	-0.3632
0	0	131	1.00	11.73	-0.57	0.380	-0.4202
0	0	141	1.17	11.63	-0.47	0.313	-0.5040
0	0	151	1.33	11.56	-0.40	0.267	-0.5740
0	0	161	1.50	11.49	-0.33	0.220	-0.6576
0	0	171	1.67	11.43	-0.27	0.180	-0.7447
0	0	181	1.83	11.40	-0.24	0.160 *	-0.7959
0	0	191	2.00	11.32	-0.16	0.107	-0.9720

NOTES:

- 1) * INDICATES THE BEST FIT LINE PASSES THROUGH THESE POINTS
WHICH ARE USED TO CALCULATE HYDRAULIC CONDUCTIVITY

K= 6.43E-04 CM/SEC

	ELAPSED TIME	HEAD RATIO
POINT 1	0.000	1.000
POINT 2	1.830	0.107

RIISING HEAD TEST
PIEZOMETER RFI-PZ20

