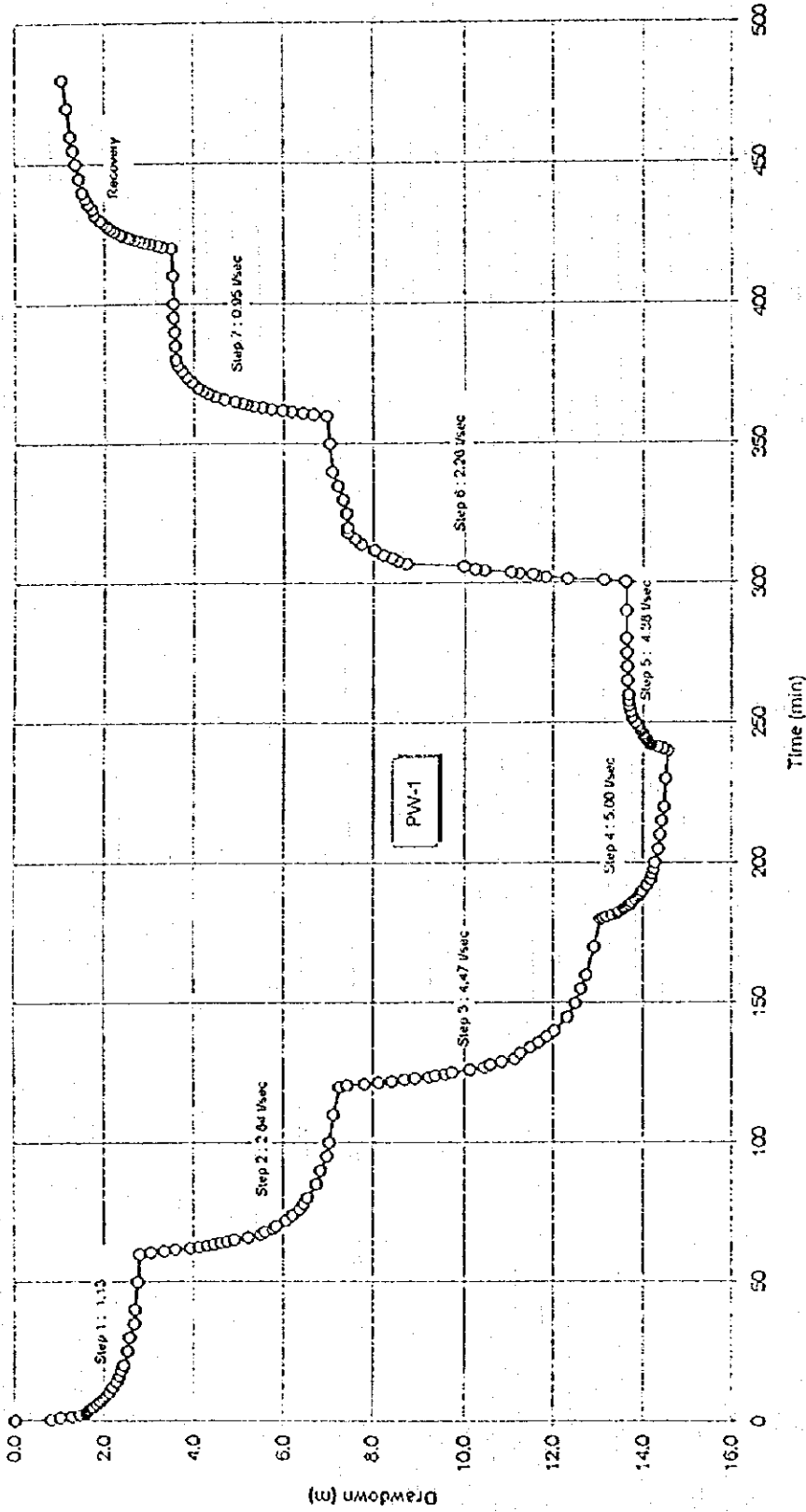


3.3.3. Result of Pumping Test
 (PW1, PW2/OW2, PW3/OW3, Municipal Well, PW4b, OW5)

Site 1 : Step Pumping Test (18/02/96)

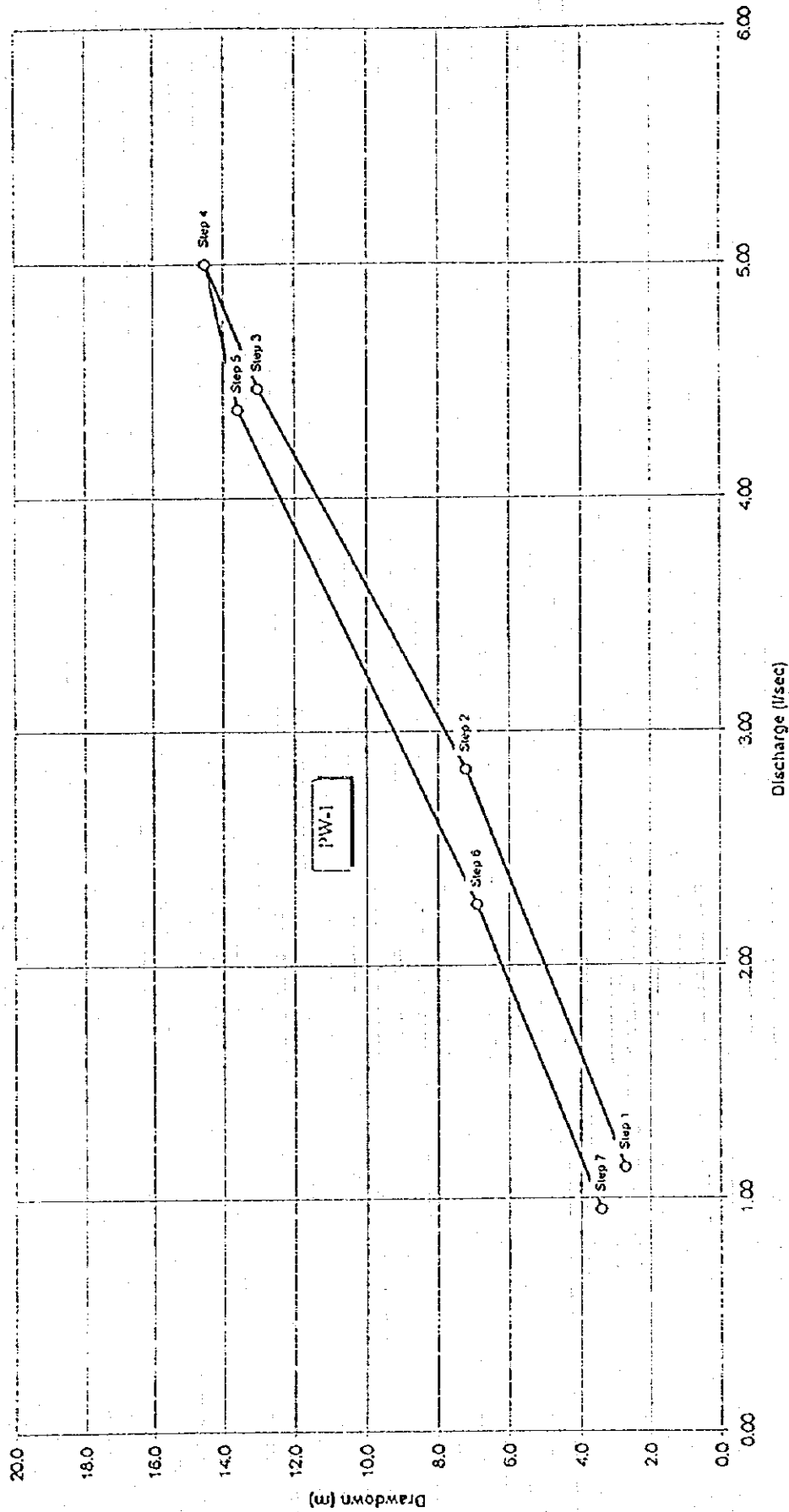


PW1ST.XLS
 20/02/96
 12:17 PM

SWISSBORING

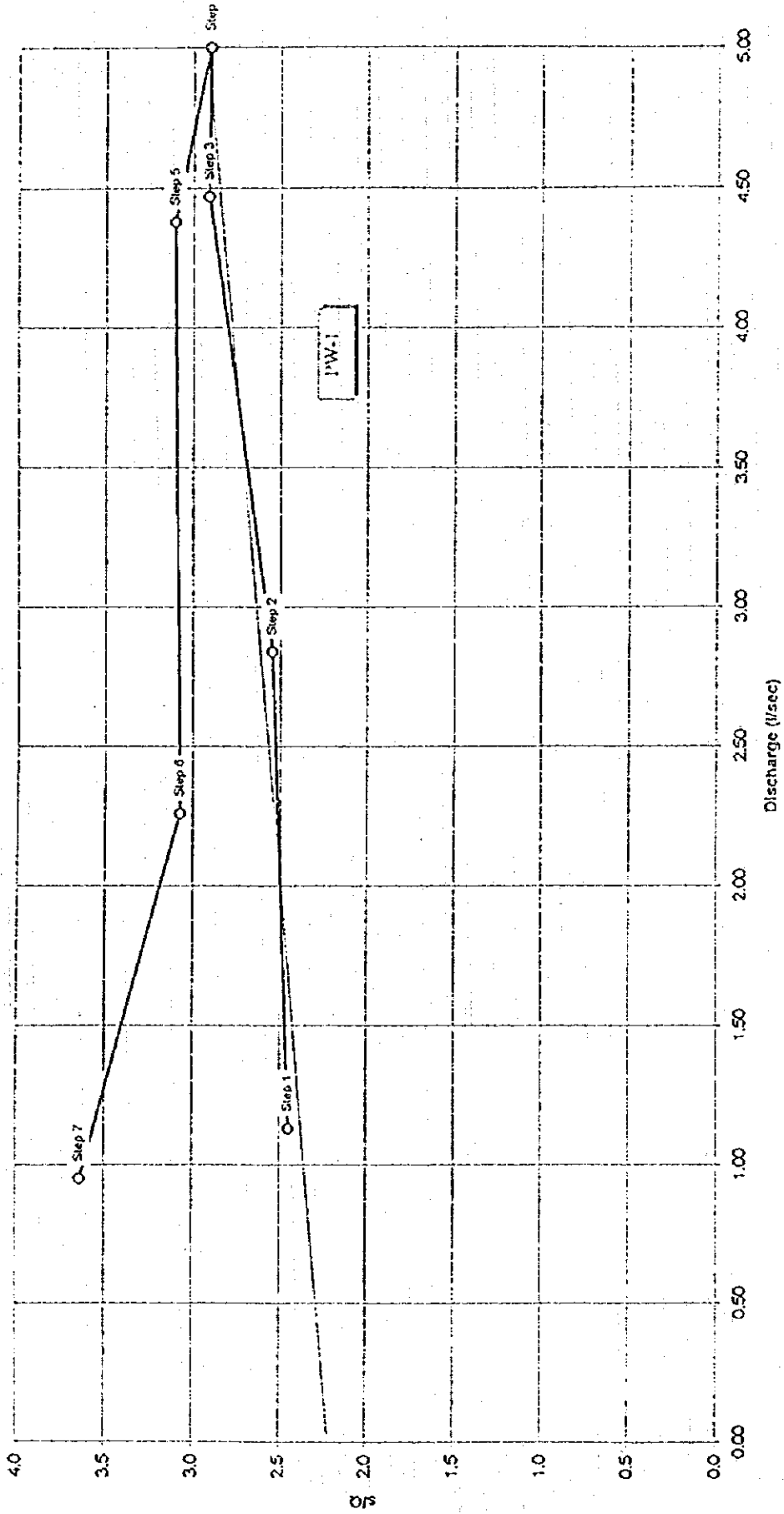
A de Jury

Site 1 : Step Pumping Test (18/02/96)
 Drawdown v. Discharge



PW-1

Site 1 : Step Pumping Test (18/02/96)
 PW-1 Well Performance

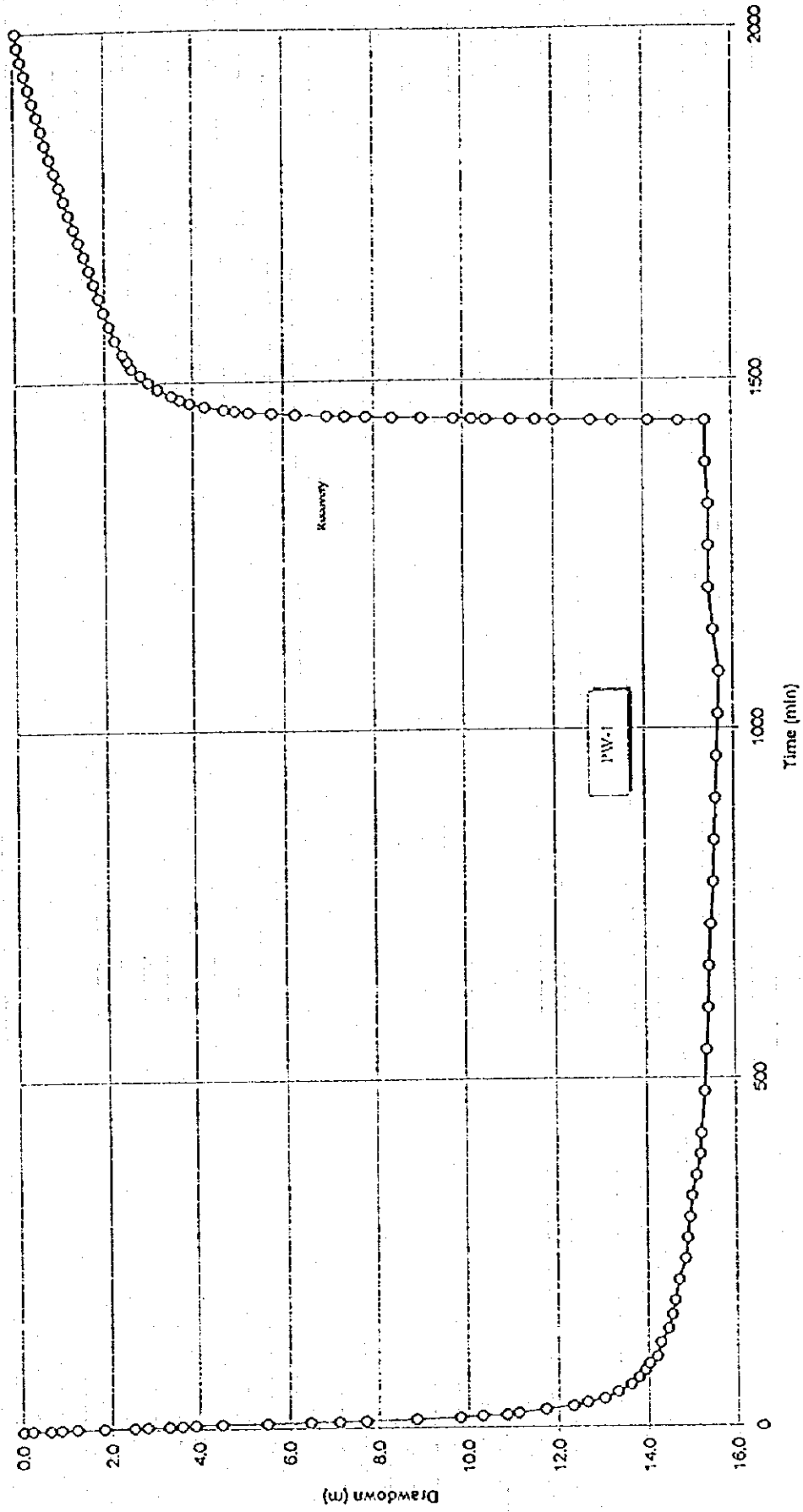


PWSTXLS

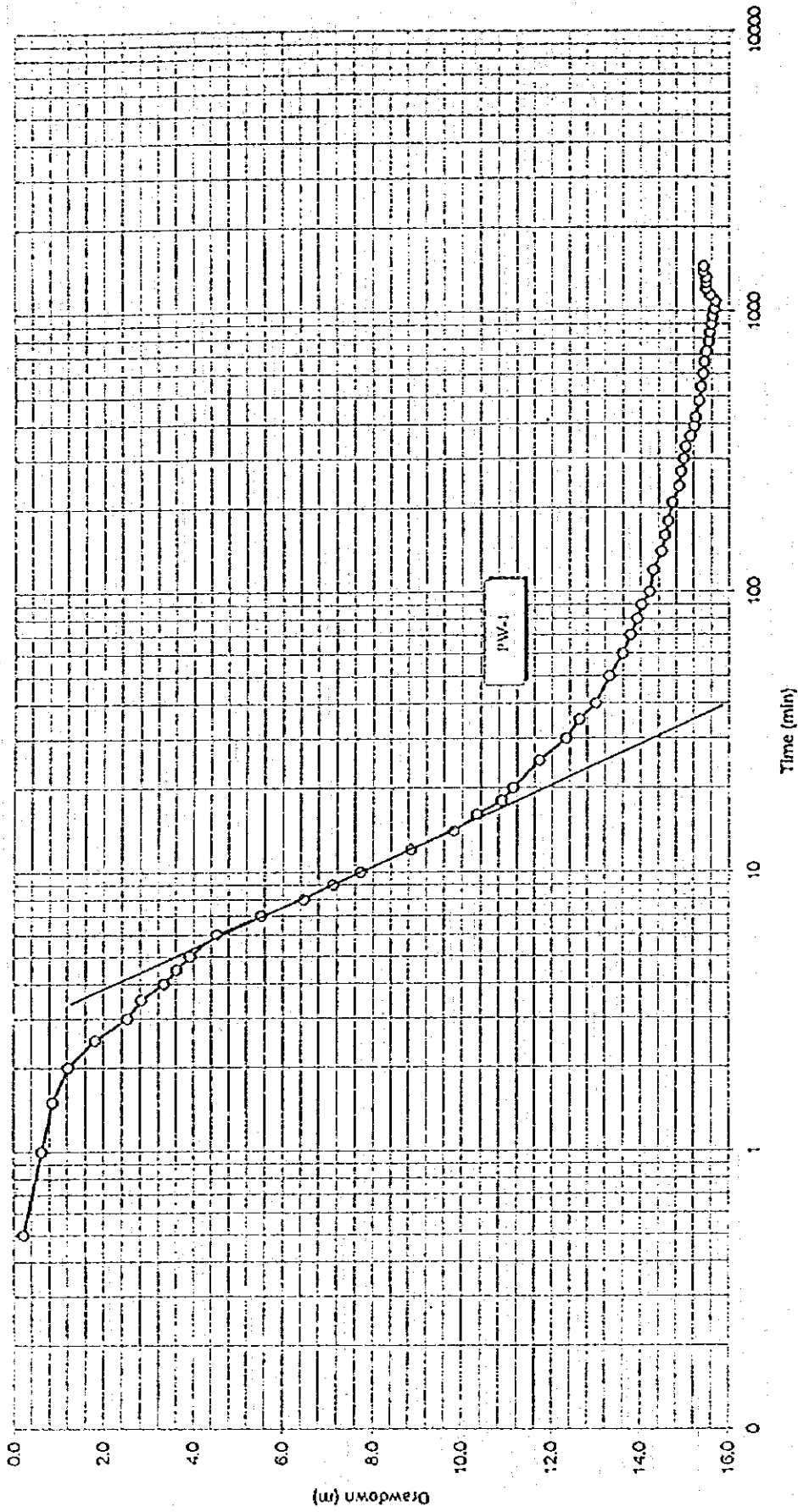
SWISSBORING

A. de Jong

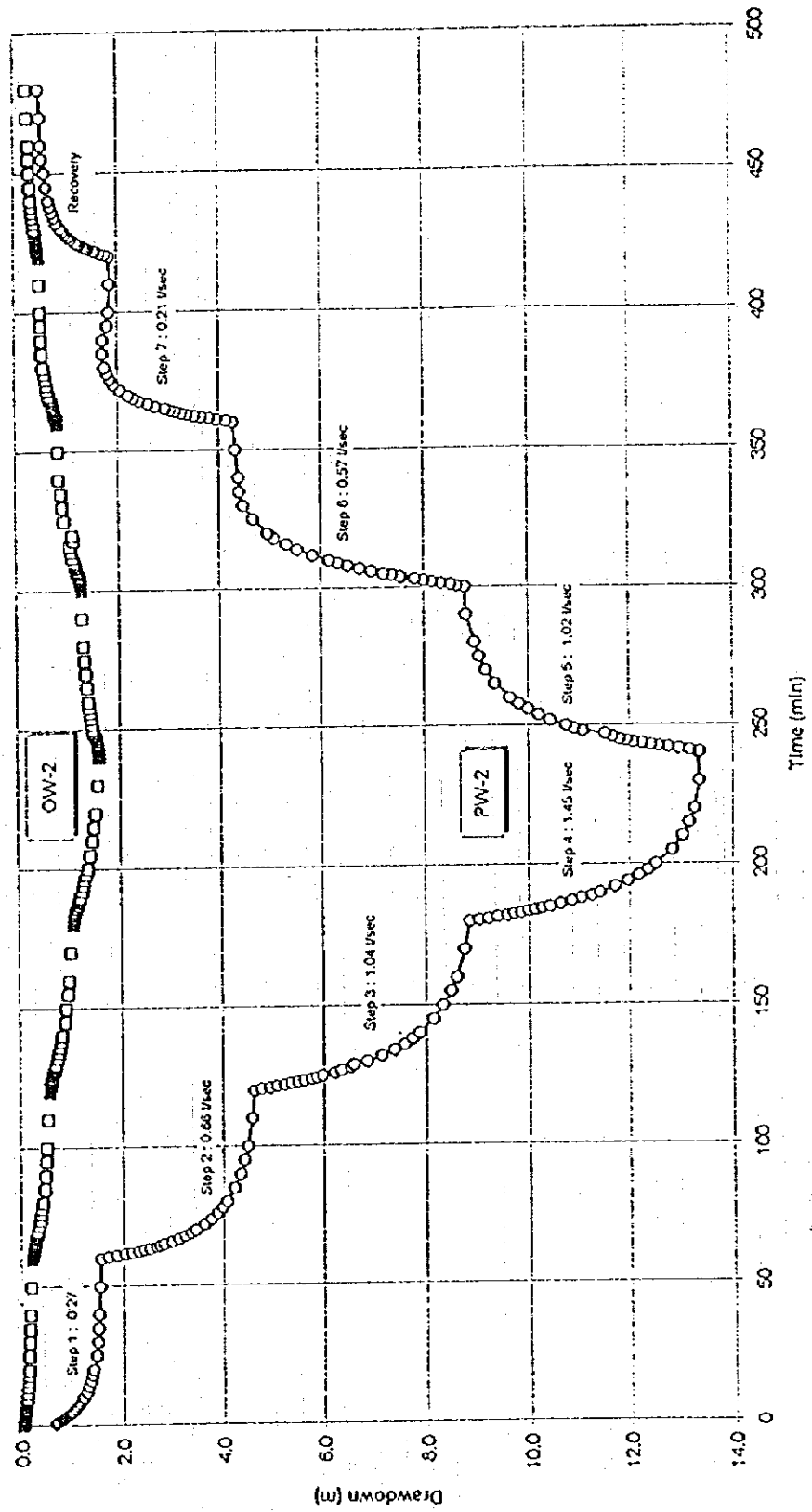
CONSTANT RATE PUMPING TEST (SITE 1) : 21-22/01/96
Q = 4.95 L/SEC



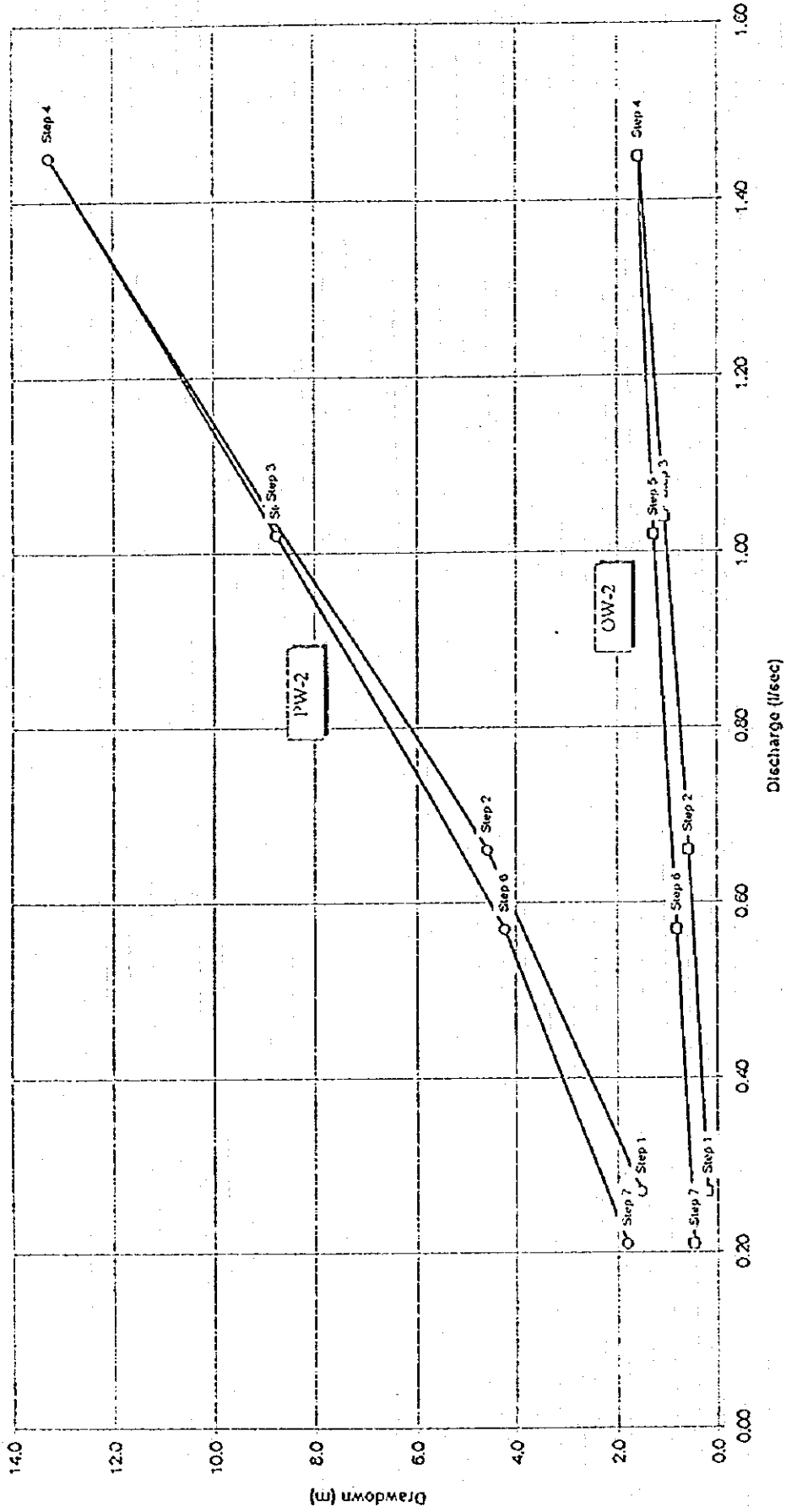
CONSTANT RATE PUMPING TEST (SITE 1) : 21-22/01/96
Q = 4.95 L/SEC



Site 2 : Step Pumping Test (07/01/96)



Site 2 : Step Pumping Test (07/01/96)
 Drawdown v. Discharge

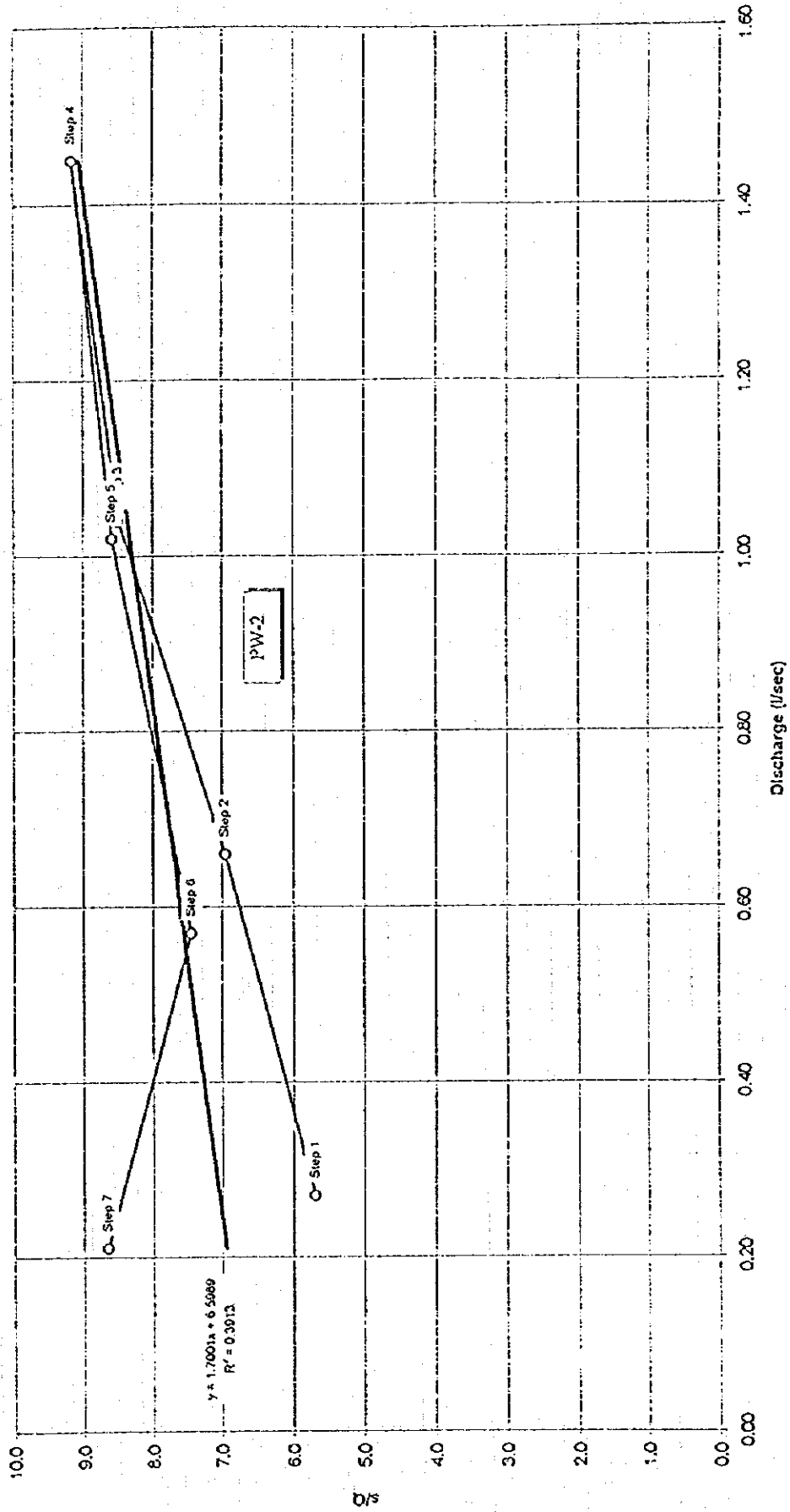


APW2ST.XLS
 20/08
 12:37 PM

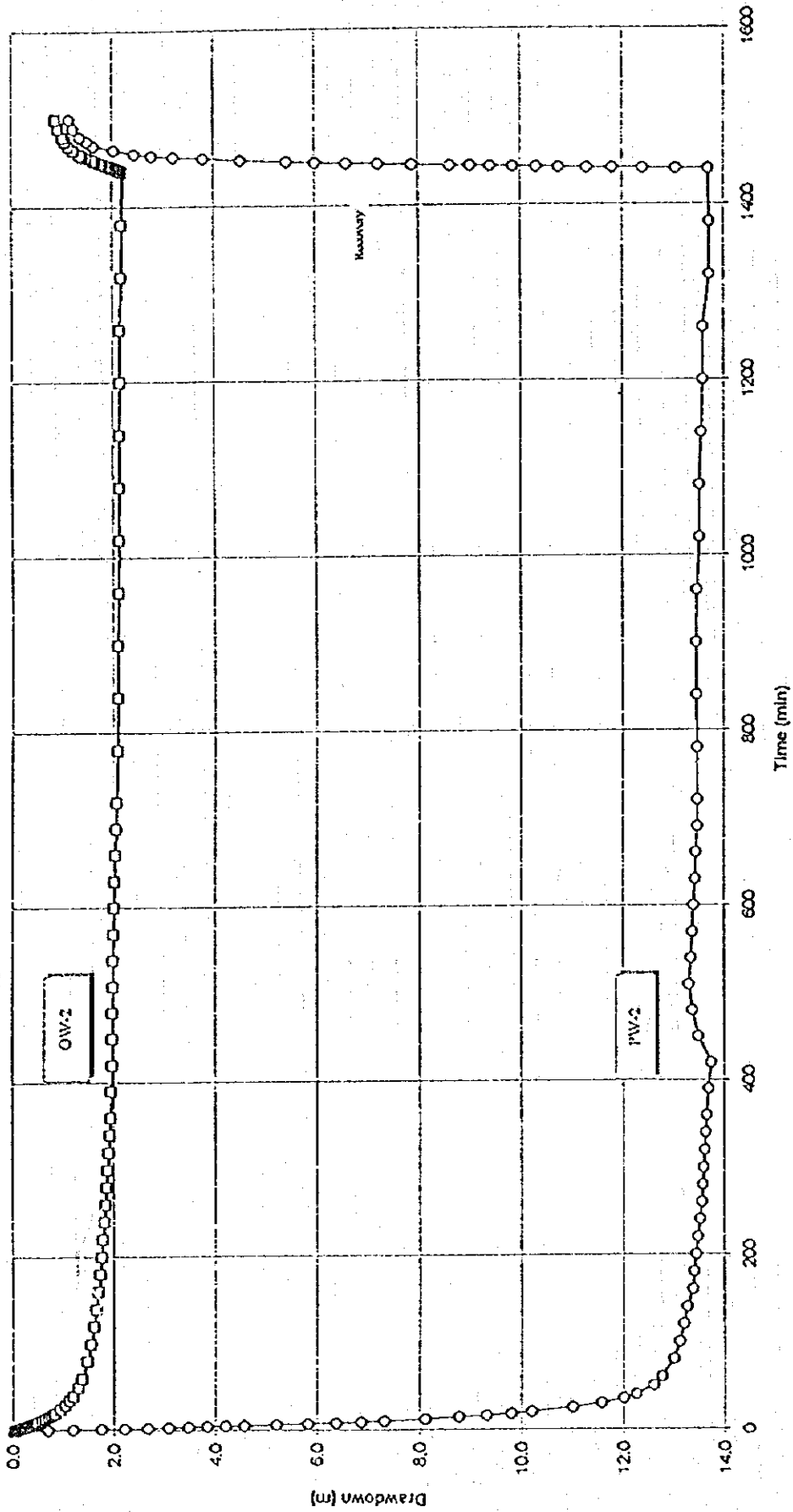
SWISSBORING

A. de Jong

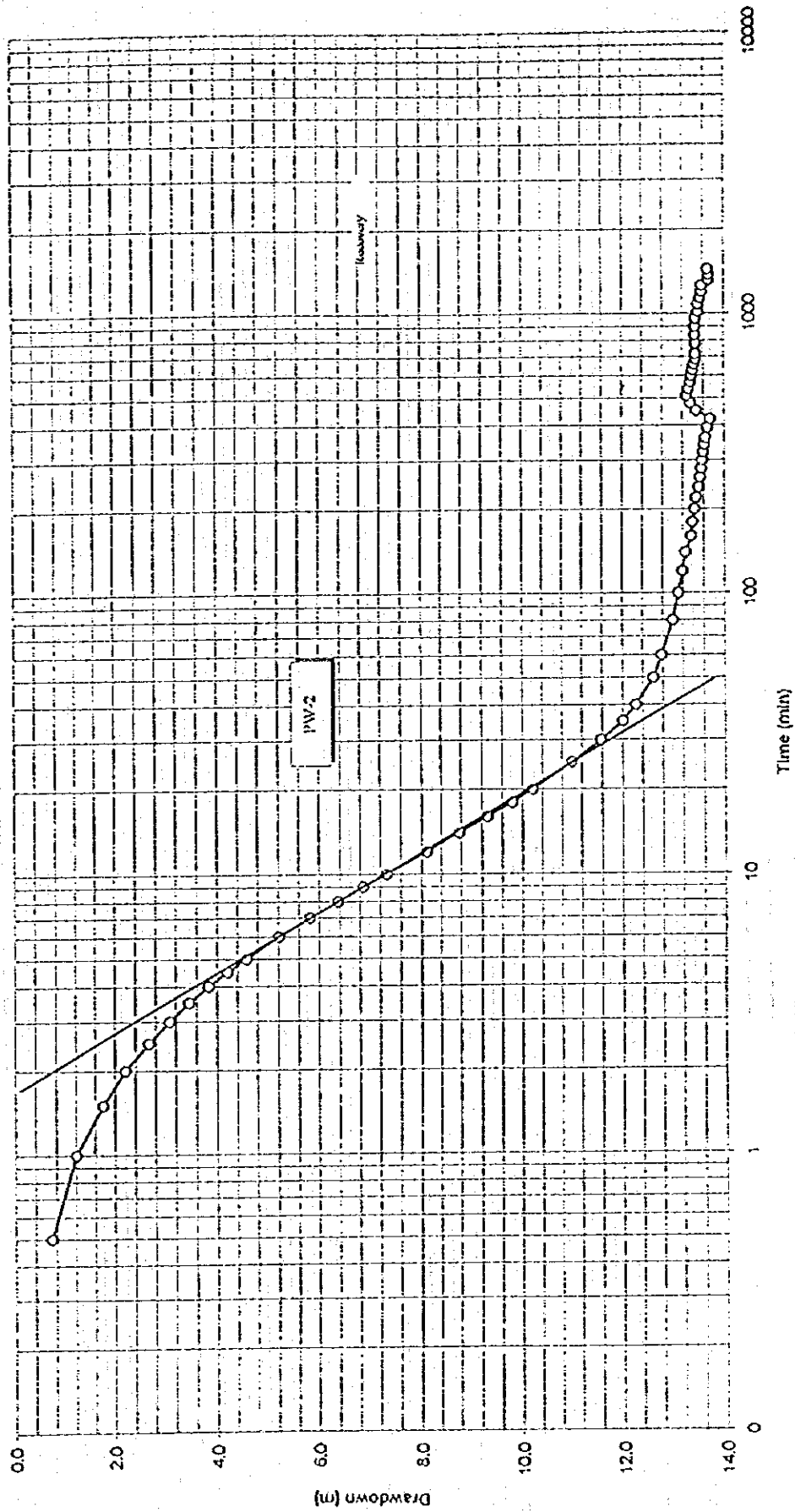
Site 2 : Step Pumping Test (07/01/96)
 PW-2 Well Performance



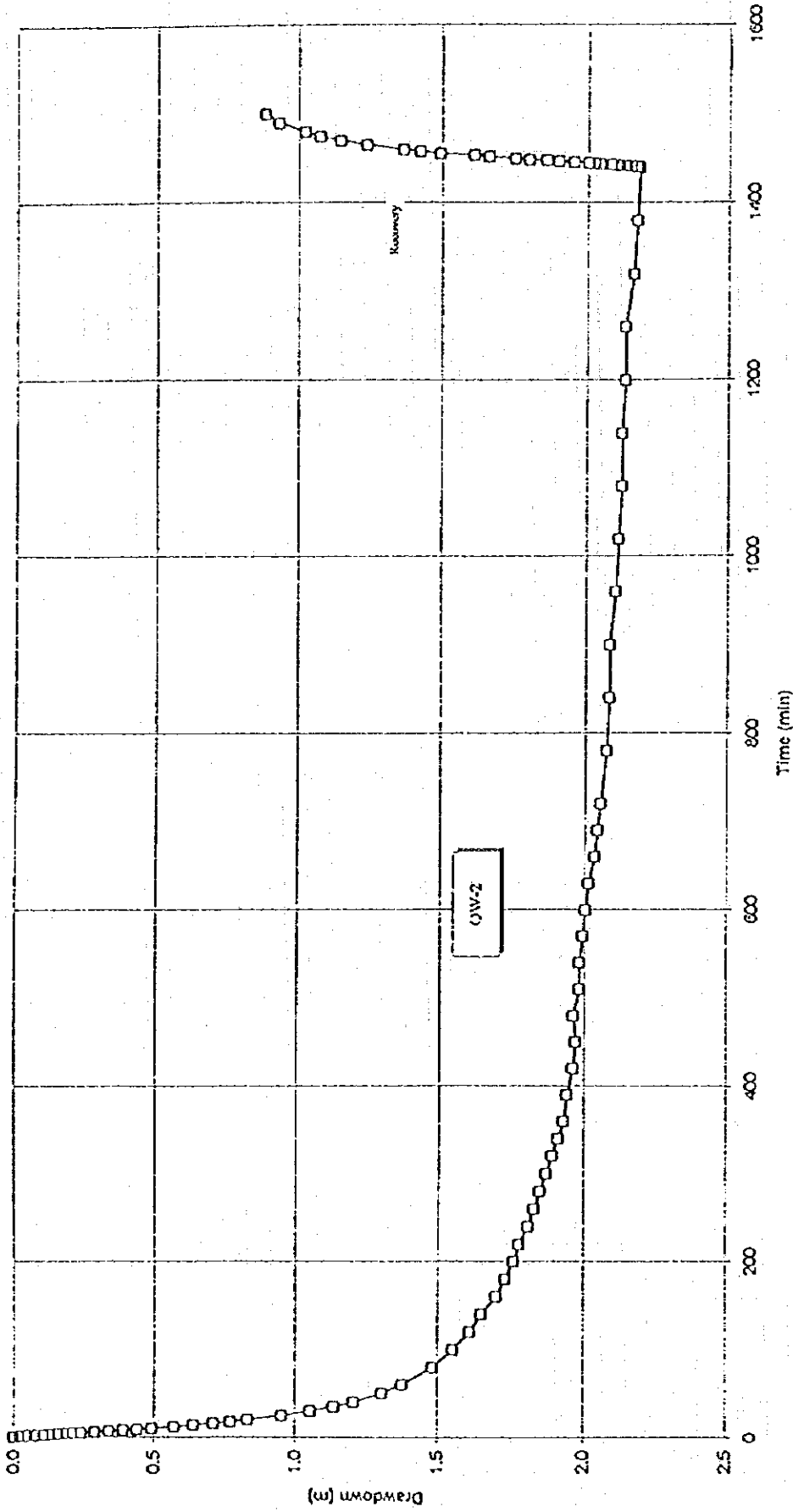
CONSTANT RATE PUMPING TEST (SITE 2) : 08/01/96
Q = 1.42 L/SEC



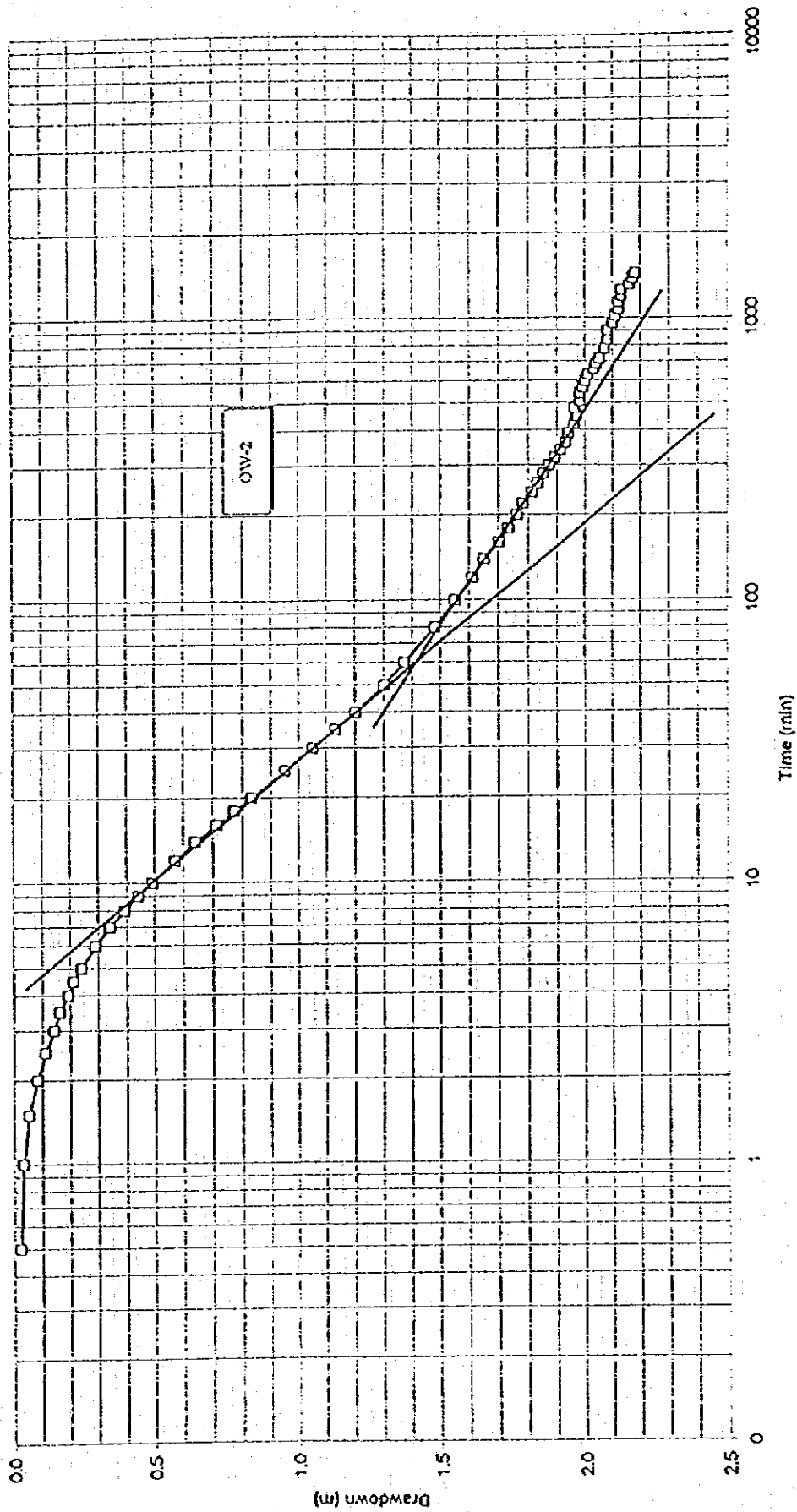
CONSTANT RATE PUMPING TEST (SITE 2) : 08/01/96
 Q = 1.42 L/SEC



CONSTANT RATE PUMPING TEST (SITE 2) : 08/01/96
 Q = 1.42 L/SEC



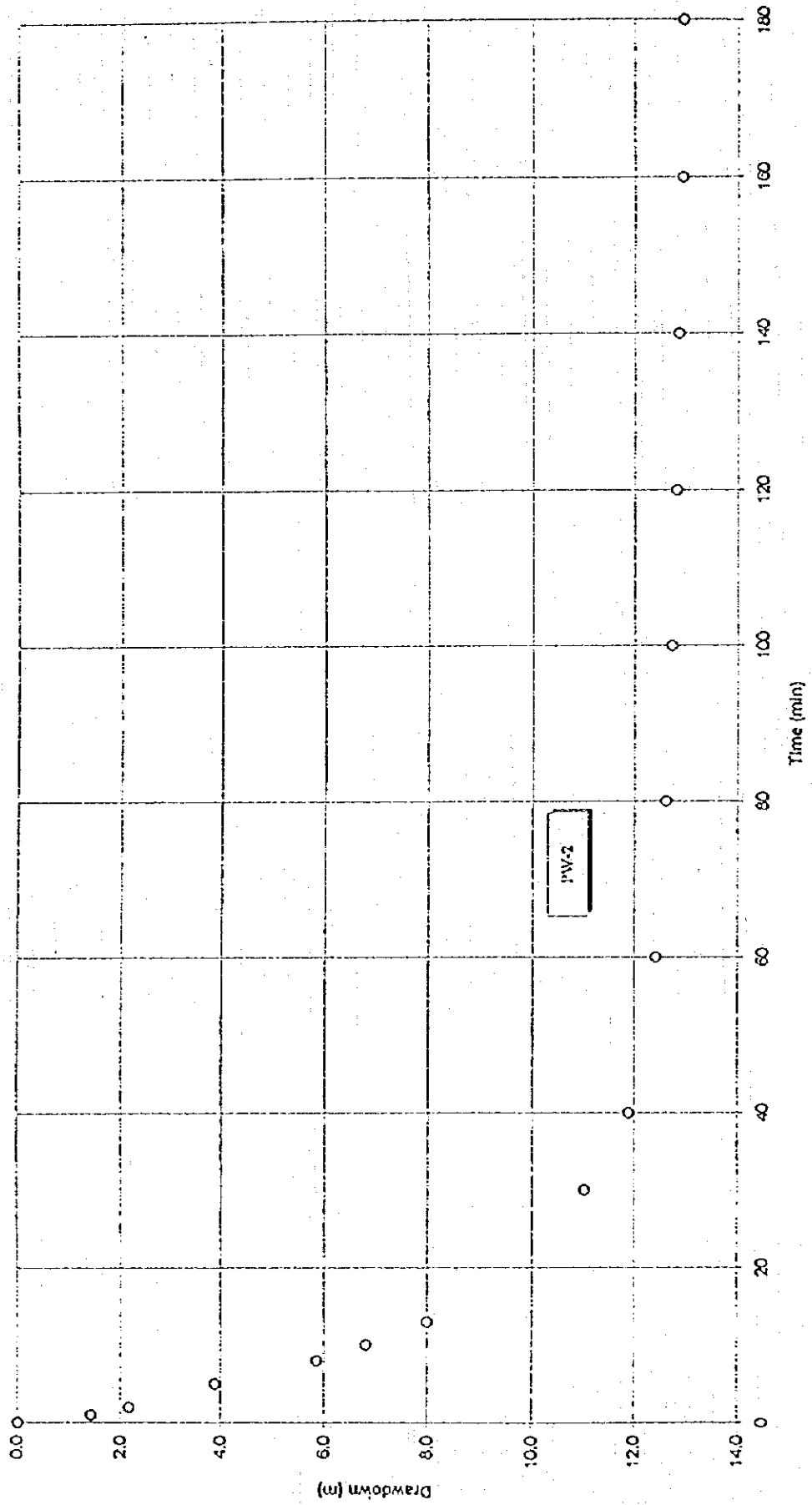
CONSTANT RATE PUMPING TEST (SITE 2) : 08/01/96
Q = 1.42 L/SEC



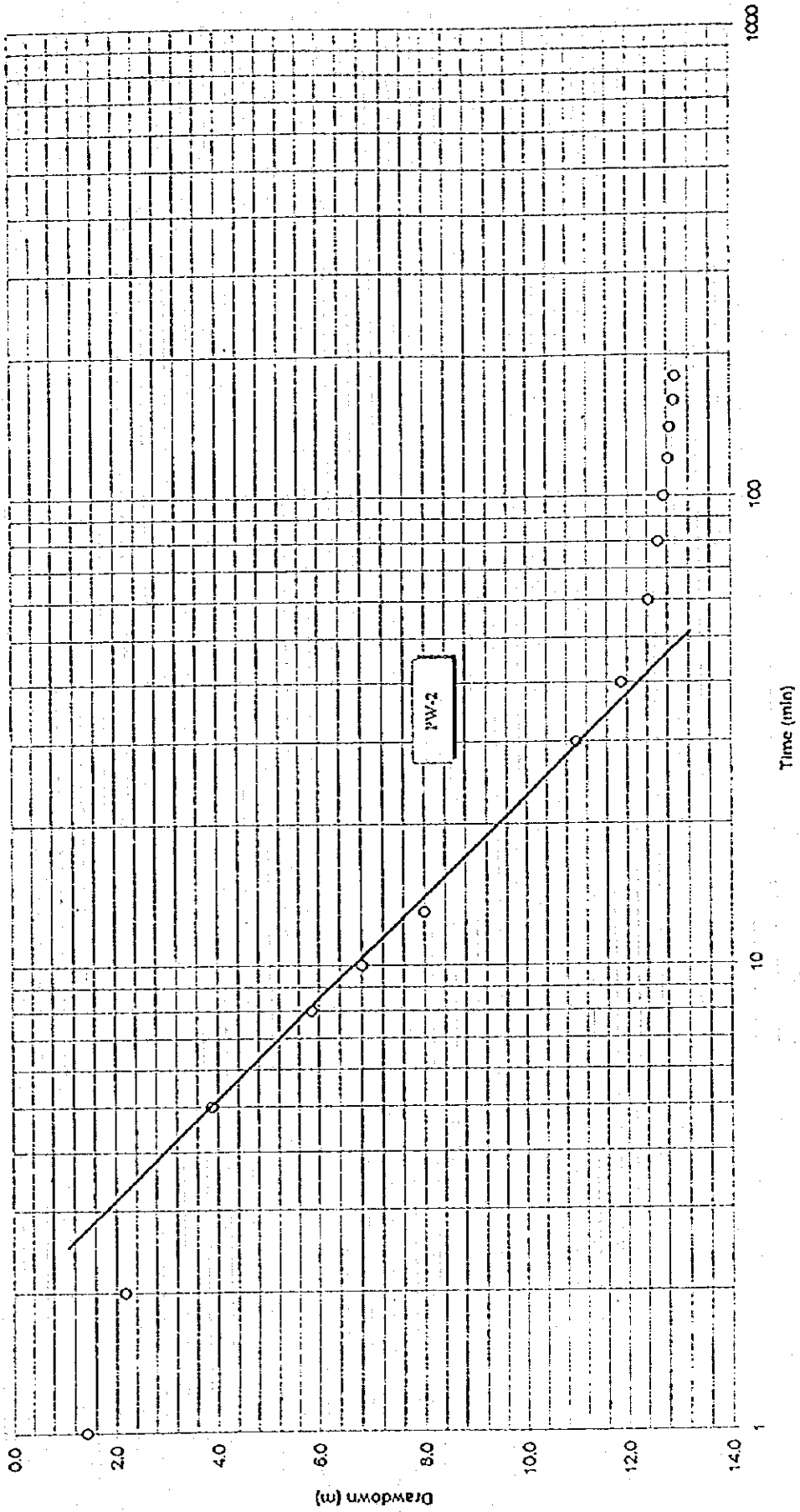
SWISSBORING

A de July

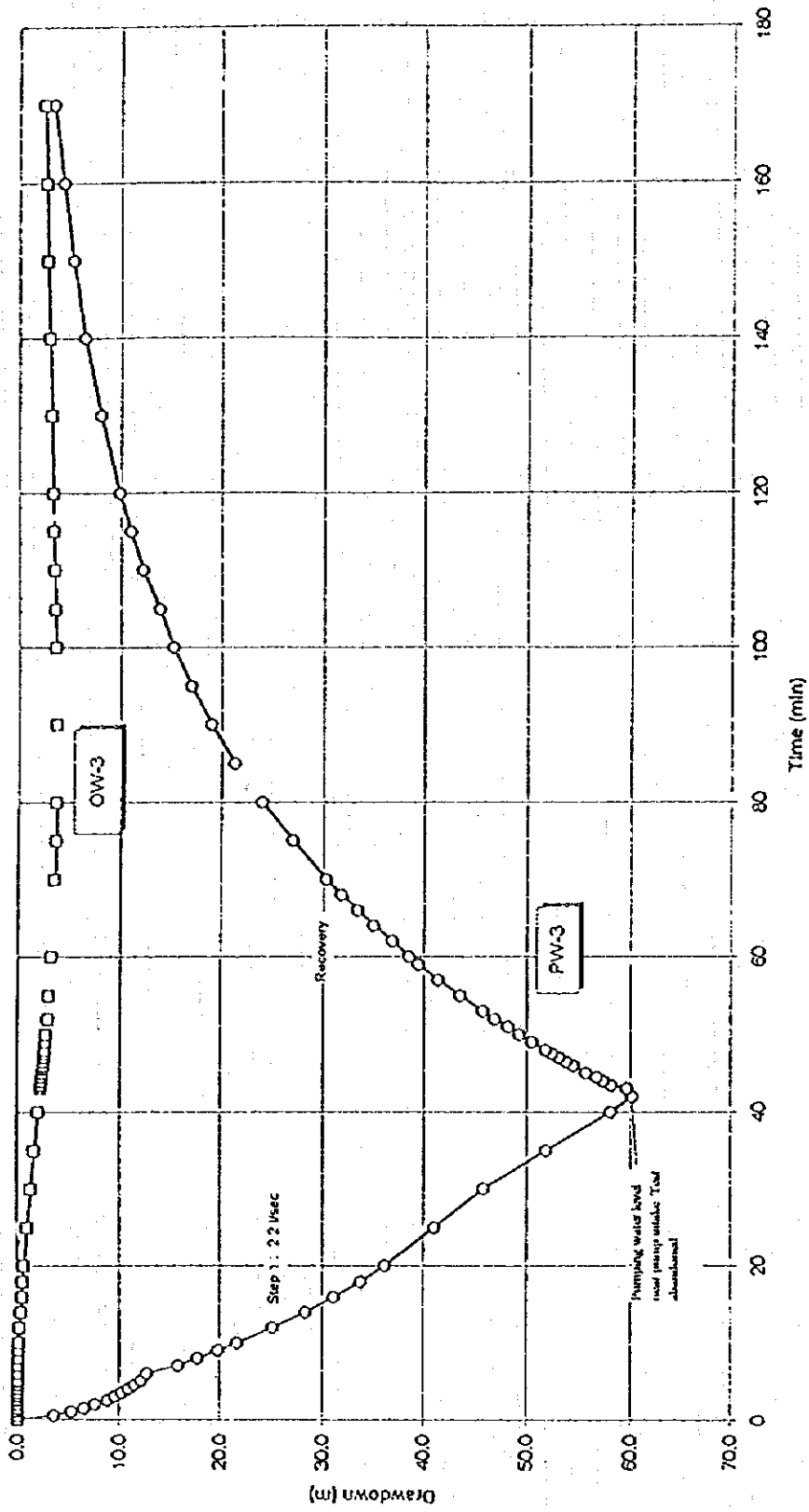
CONSTANT RATE PUMPING TEST (SITE 2) DECHLORINATION: 10/01/96
 Q = 1.2 L/SEC



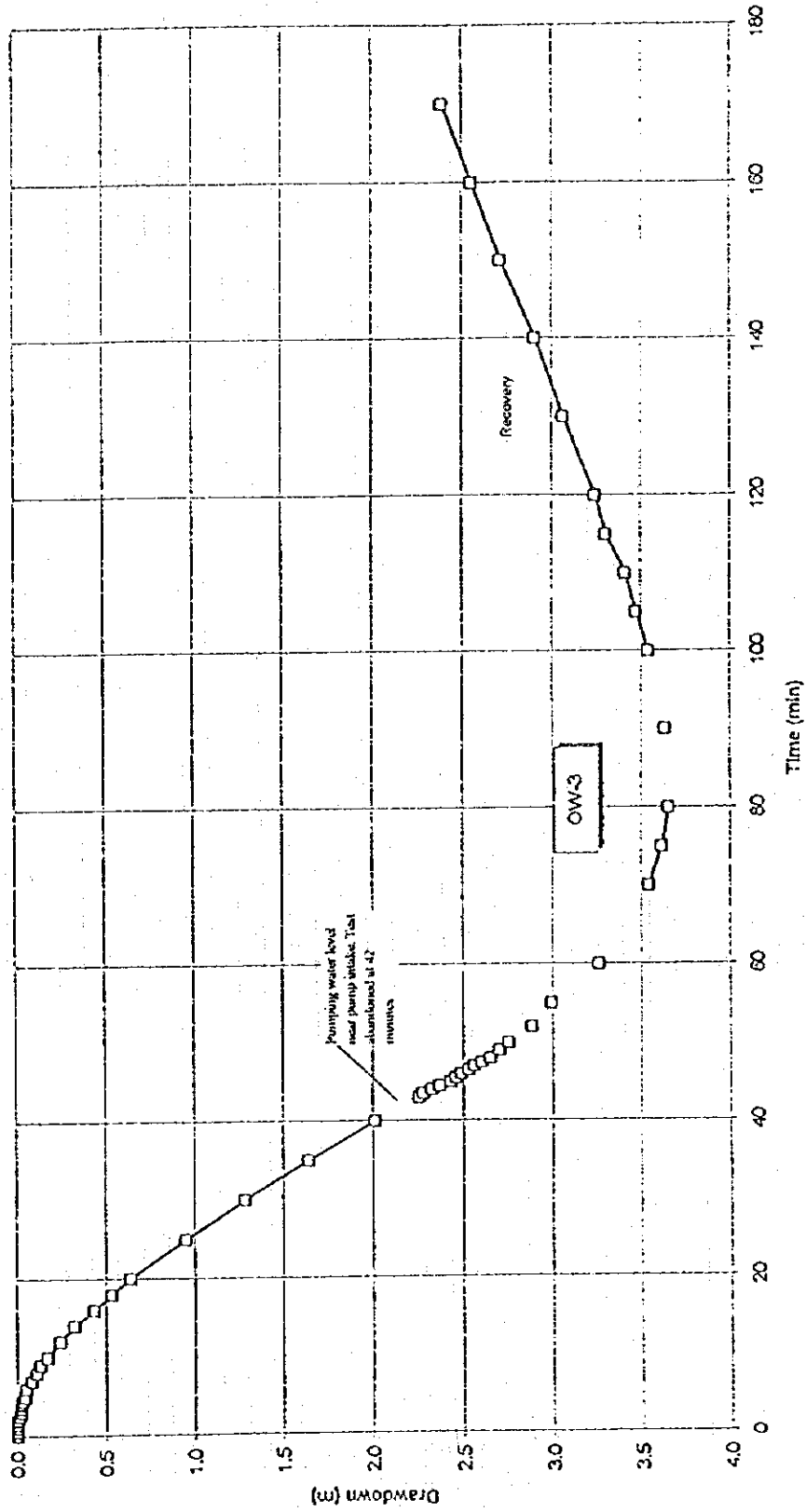
CONSTANT RATE PUMPING TEST (SITE 2) DECHLORINATION: 10/01/96
Q = 1.2 L/SEC



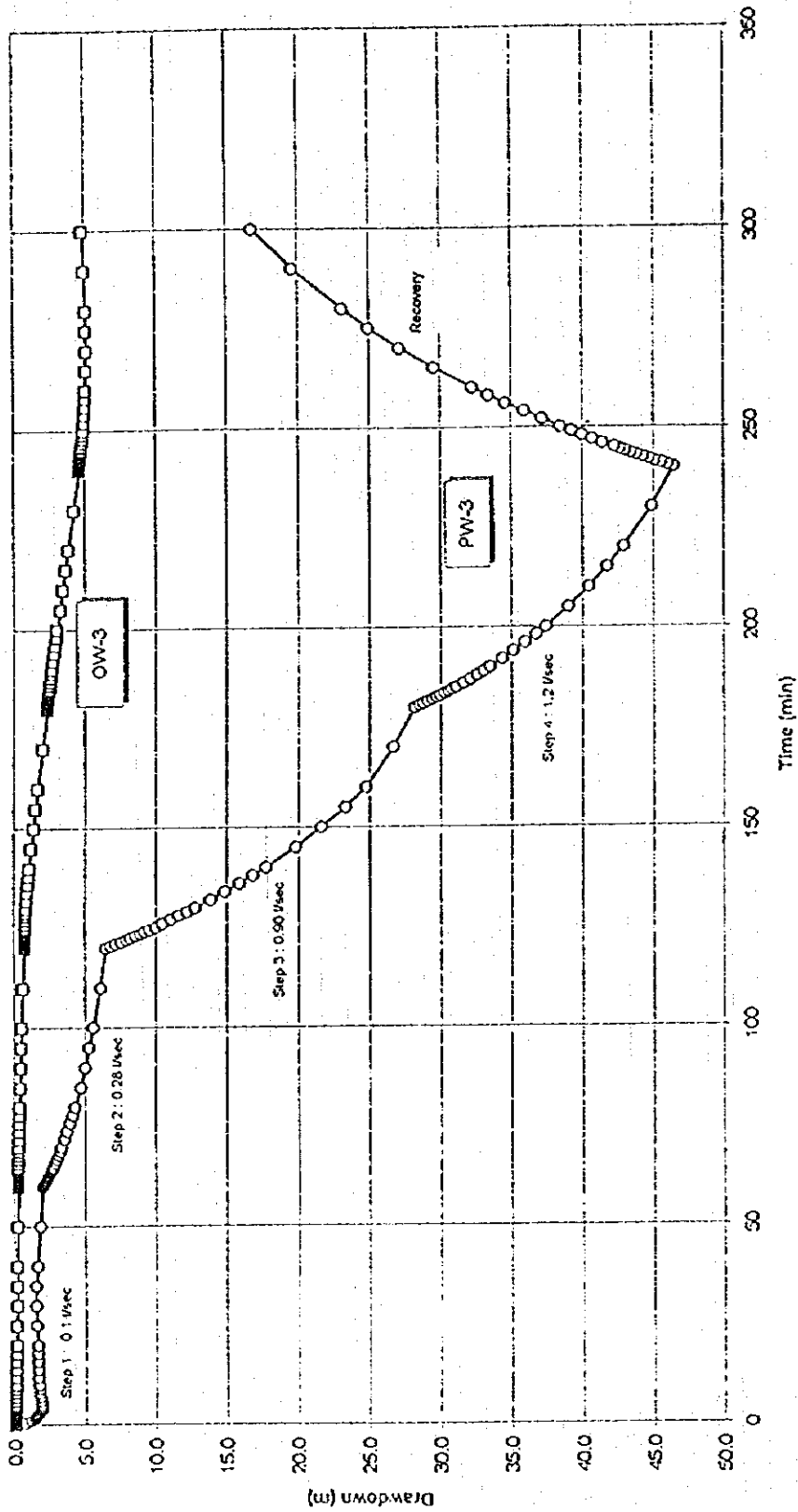
Site 3 : Step Pumping Test 1 (28/12/96)



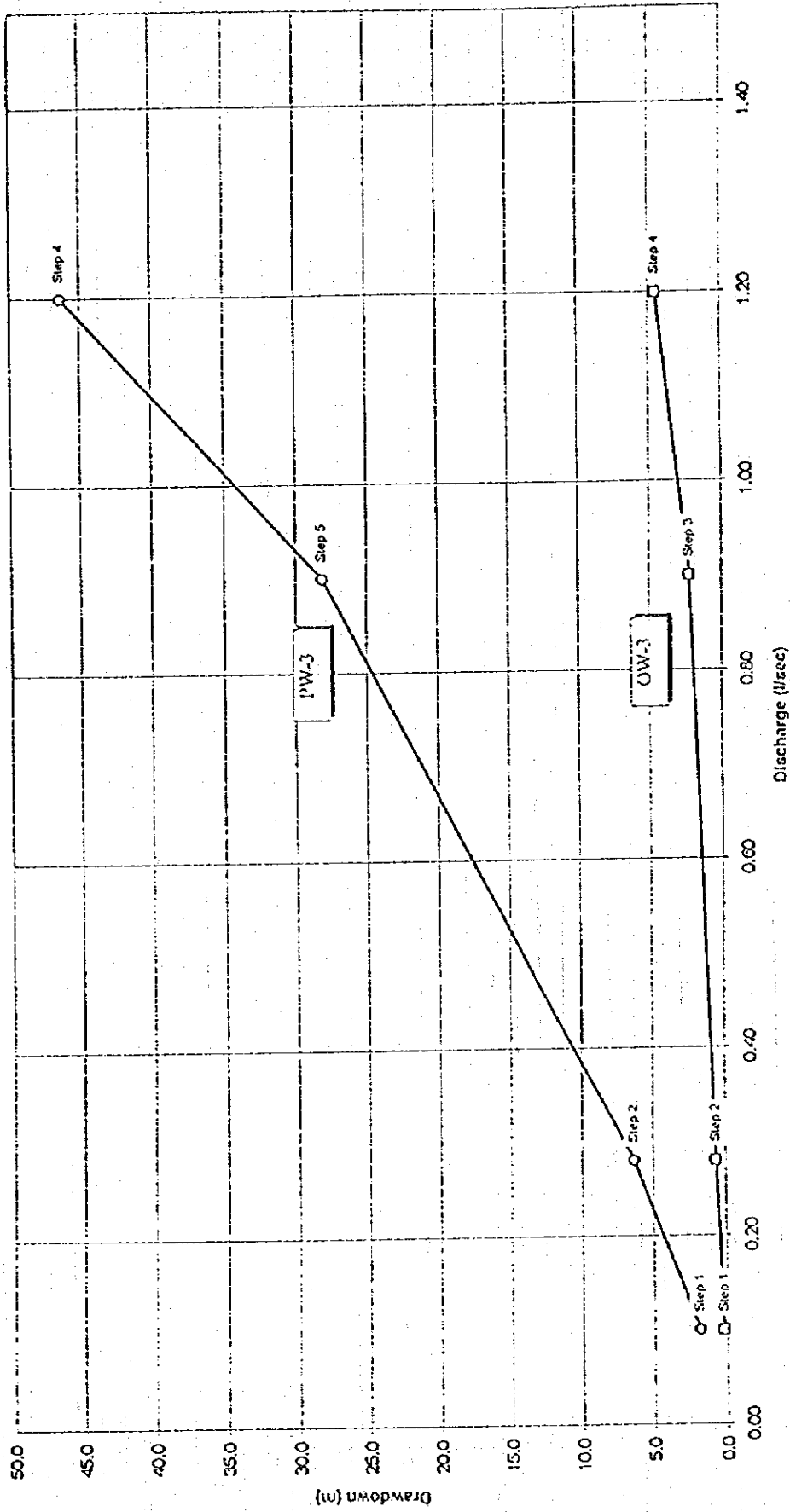
Site 3 : Step Pumping Test 1 (28/12/96) Q = 2.2 l/sec
 Water levels in OW3



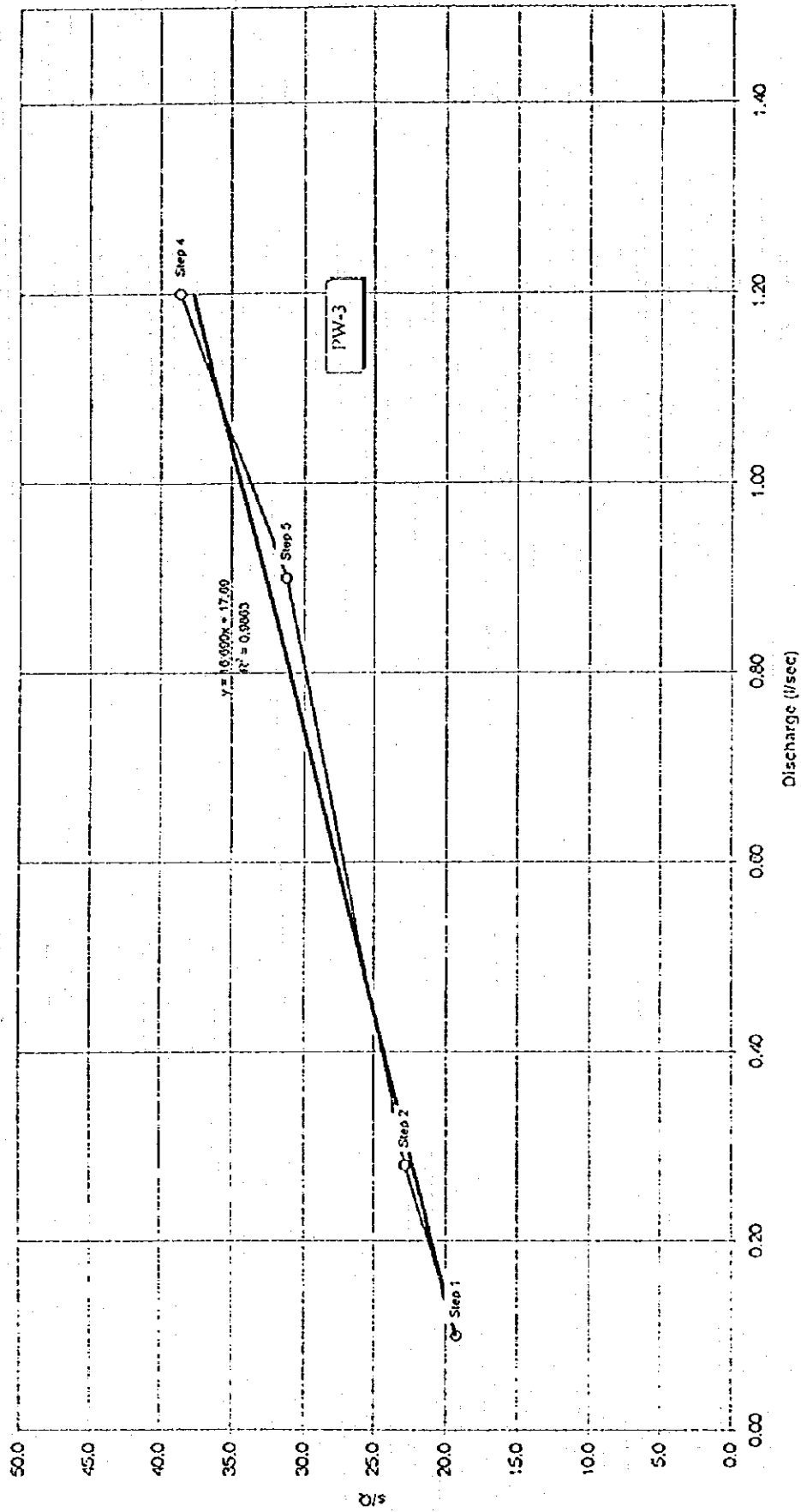
Site 3 : Step Pumping Test 2 (04/01/96)



Site 3 : Step Pumping Test 2 (04/01/96)
 Drawdown v. Discharge



Site 3 : Step Pumping Test 2 (04/01/96)
 PW-3 Well Performance

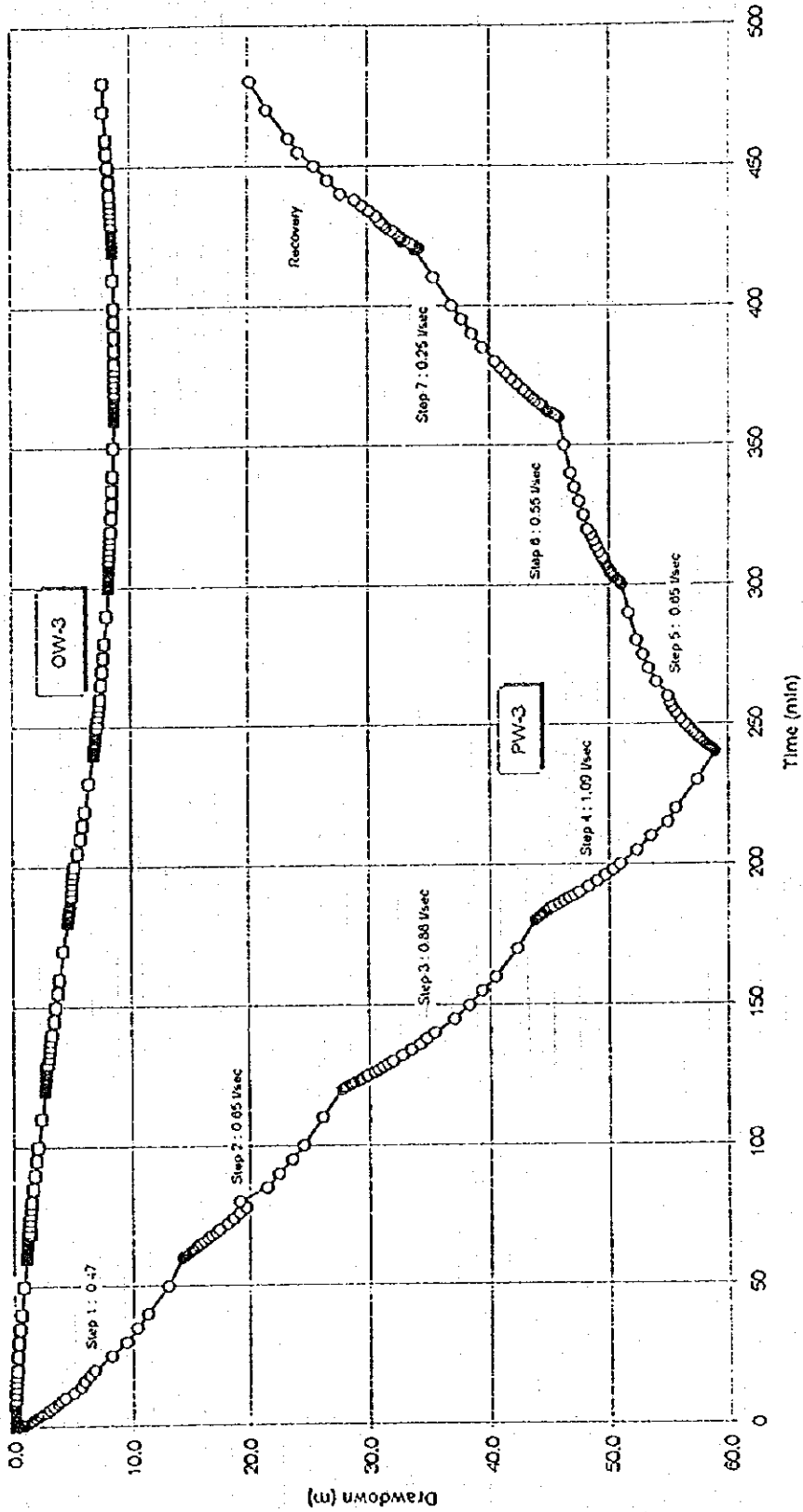


SWISSBORING

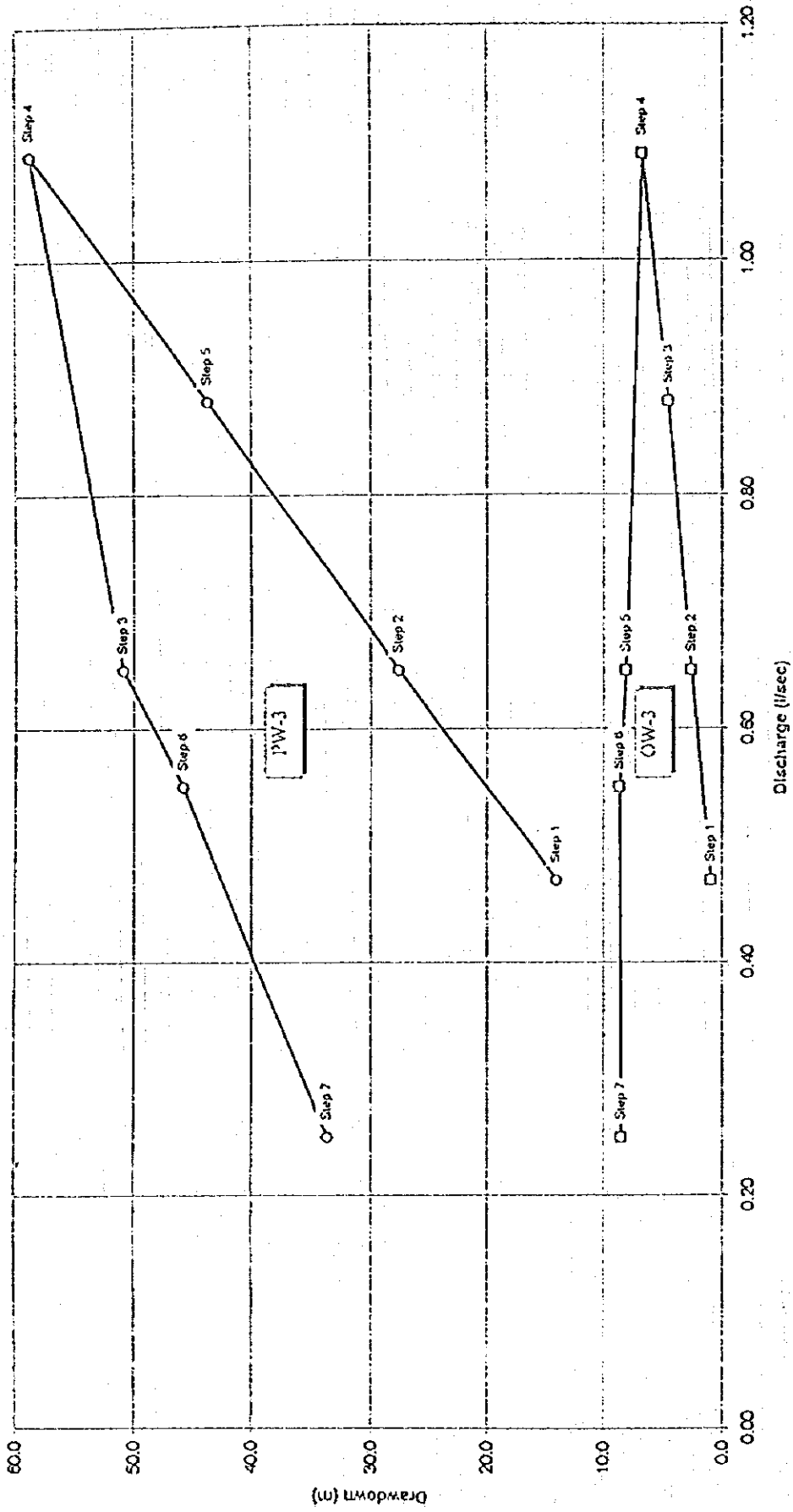
A. de Jong

APW3172.XLS
 20/07/96
 12:54 PM

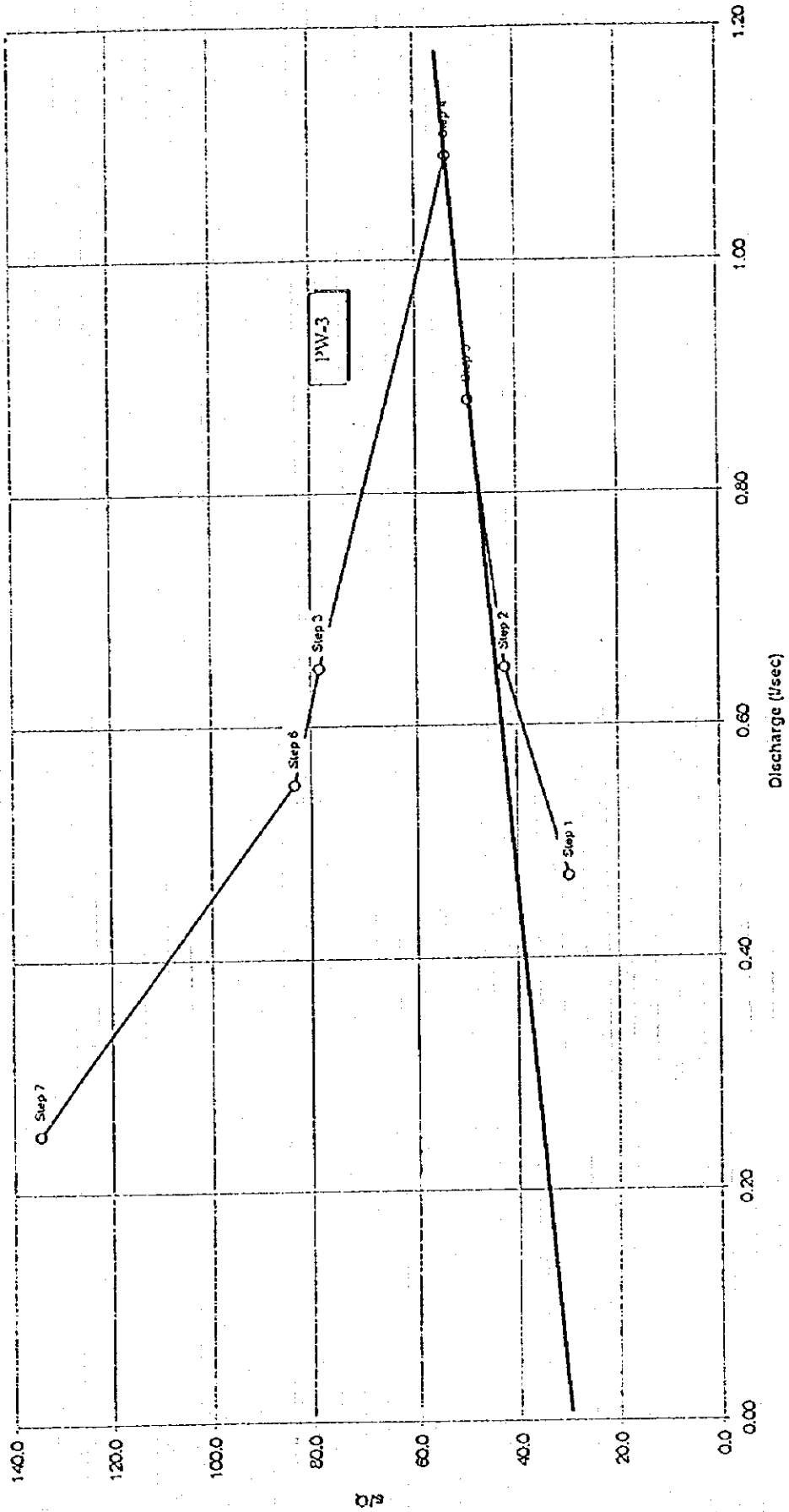
Site 3 : Step Pumping Test 3 (18/01/96)



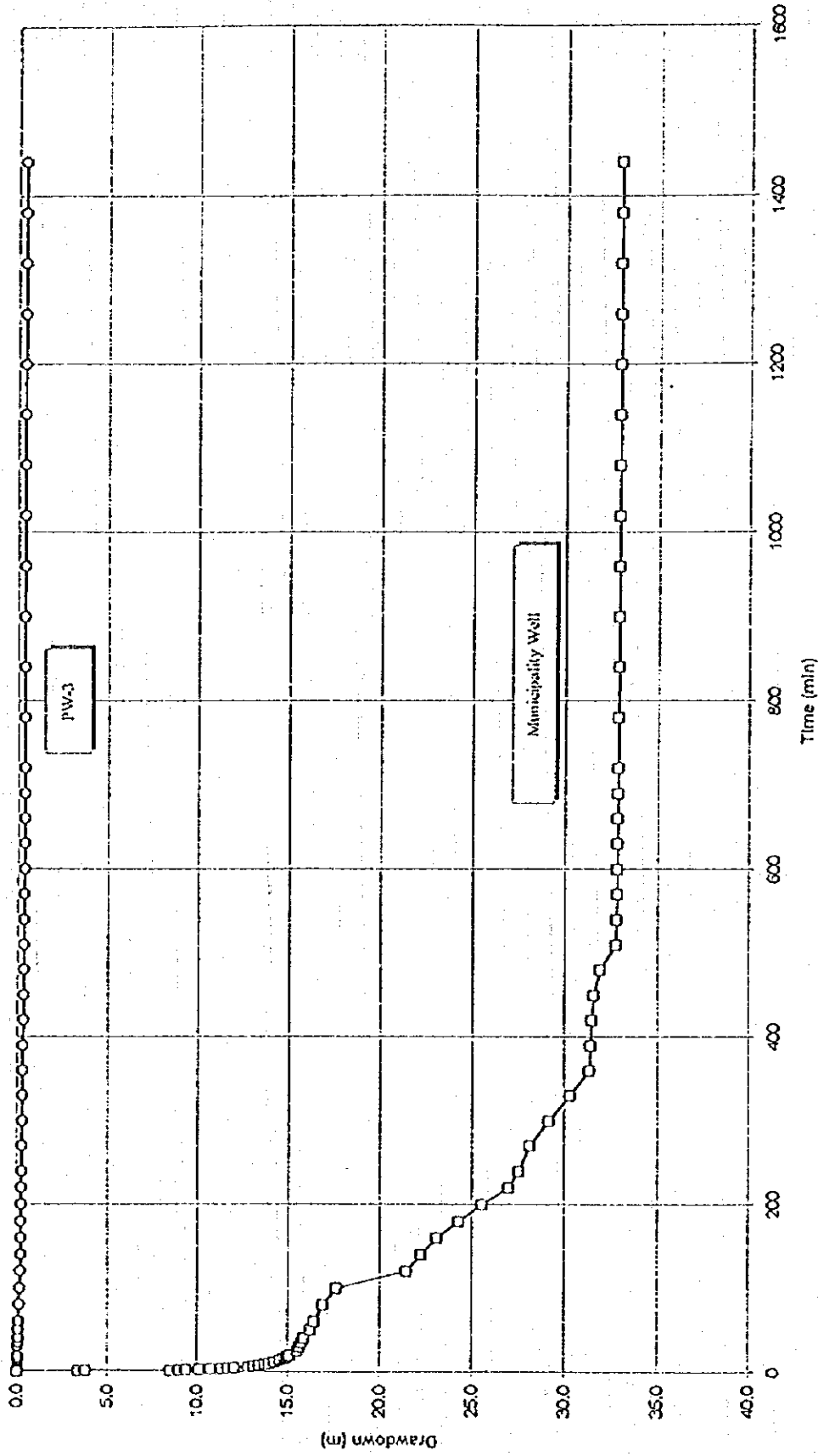
Site 3 : Step Pumping Test 3 (18/01/96)
 Drawdown v. Discharge



Site 3 : Step Pumping Test (18/01/96)
 PW-3 Well Performance



CONSTANT RATE PUMPING TEST (SITE 3, MUNICIPALITY WELL) : 24/01/96
Q = 7 L/SEC



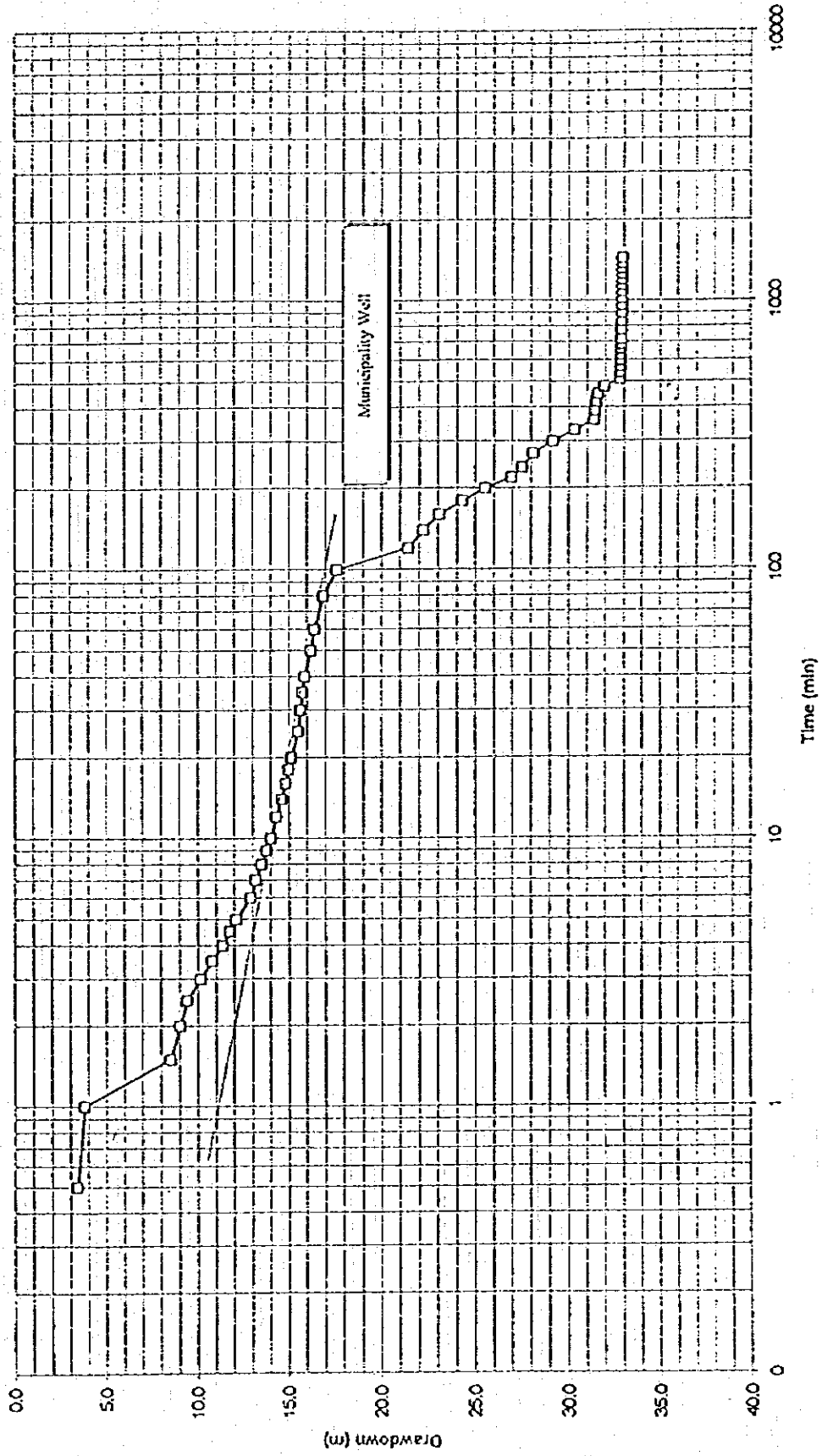
Ap3-276

AMUNPTXLS
20/2/96
2:30 PM

SWISSBORING

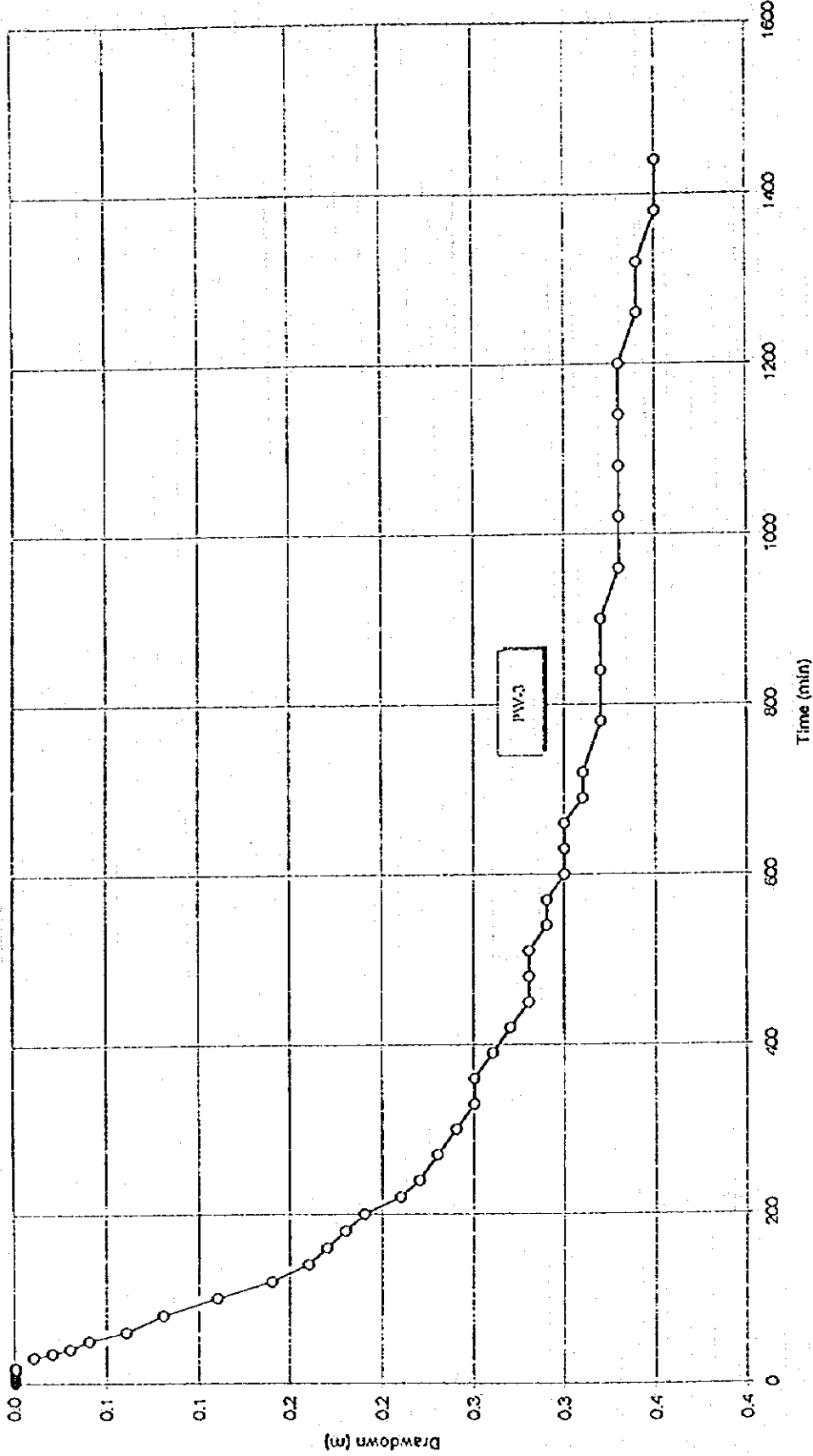
A de Jary

CONSTANT RATE PUMPING TEST (SITE 3, MUNICIPALITY WELL) : 24/01/96
Q = 7 L/SEC



Ap3-277

CONSTANT RATE PUMPING TEST (SITE 3, MUNICIPALITY WELL) : 24/01/96
 Drawdown in Observation well PW-3 Q = 7 L/SEC

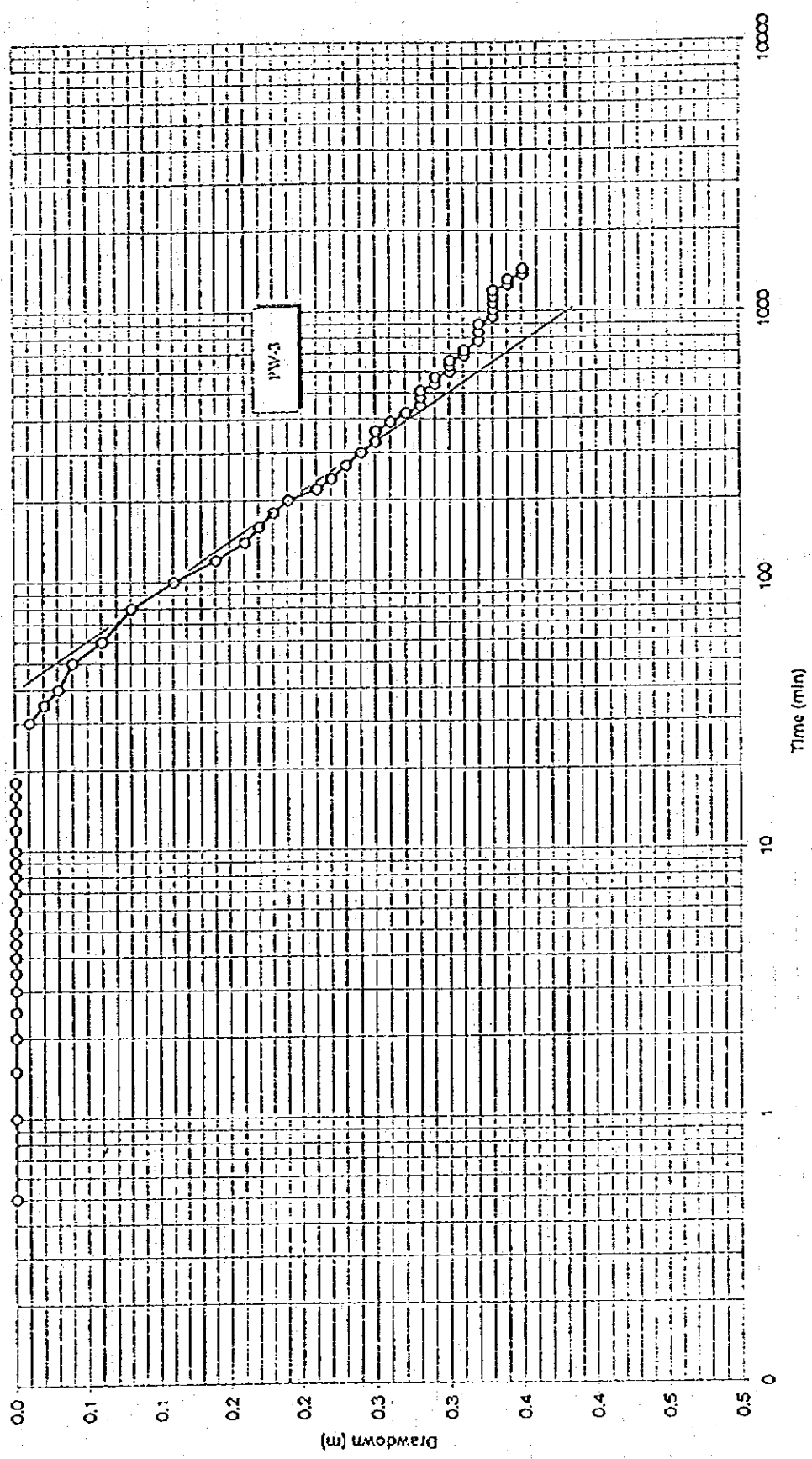


AMMUNT.XLS
 20/2/96
 2:50 PM

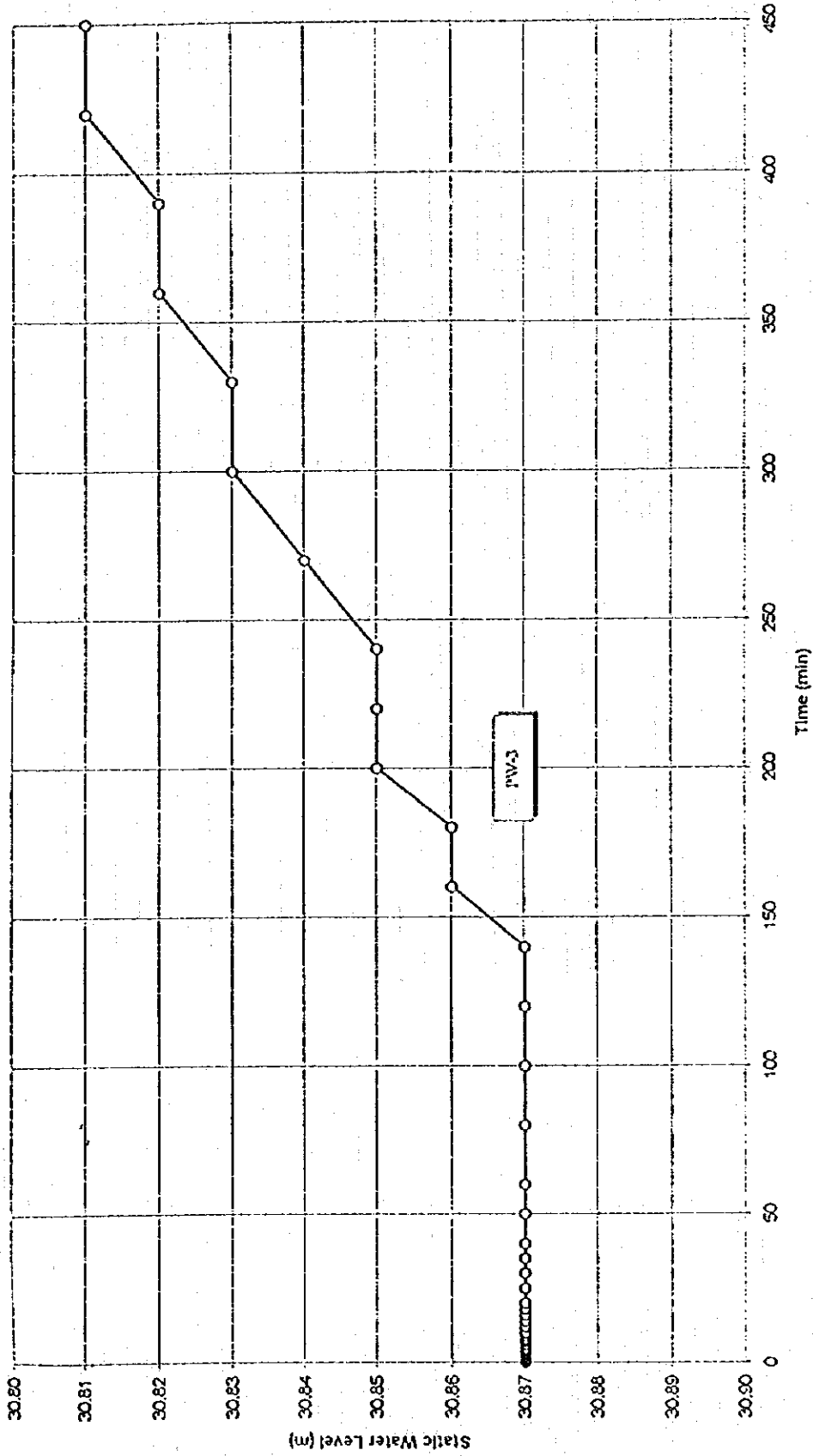
SWISSBORING

A. de Jong

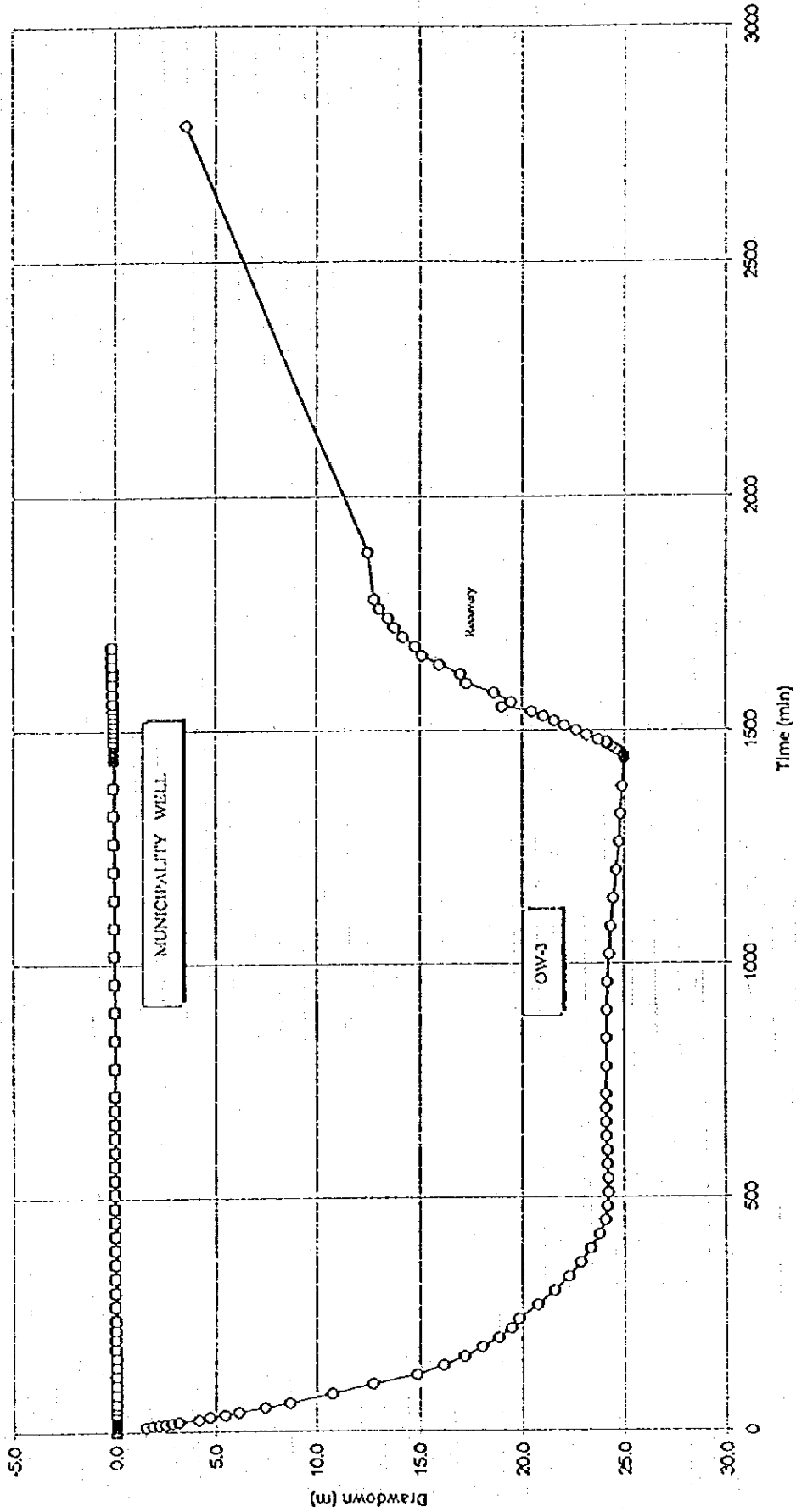
CONSTANT RATE PUMPDOWN TEST (SITE 3, MUNICIPALITY WELL) : 24/01/96
 Drawdown in Observation well PW-3 Q = 7 L/SEC



RECOVERY TEST (SITE 3, MUNICIPALITY WELL) : 16/01/96
 Recovering Water Levels in PW-3



AIRLIFT PUMPING TEST IN OW3 (SITE 3) : 20/01/96
 Q = 0.56 L/SEC

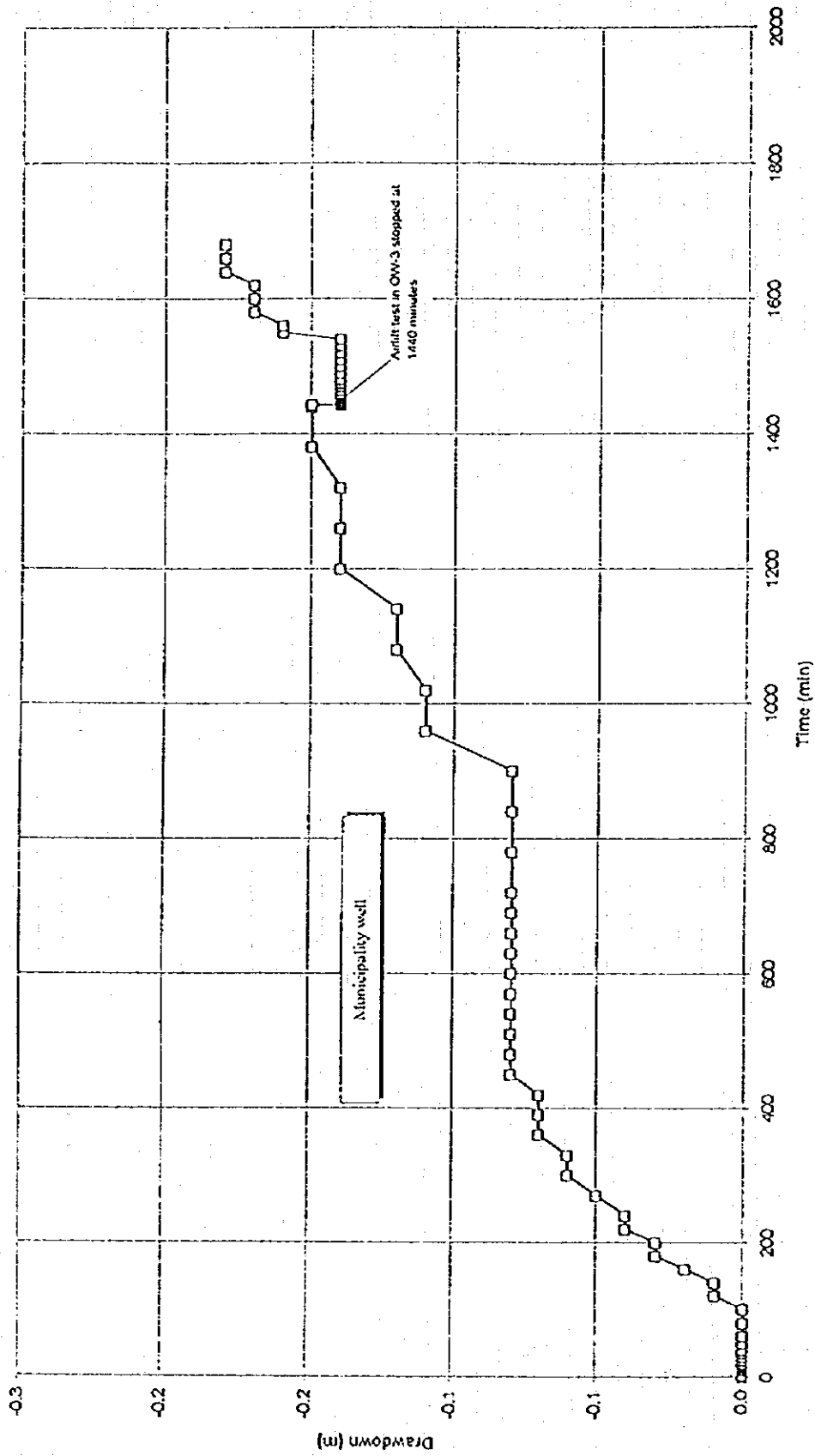


AWQA01.XLS
 24/2/00
 1:05 PM

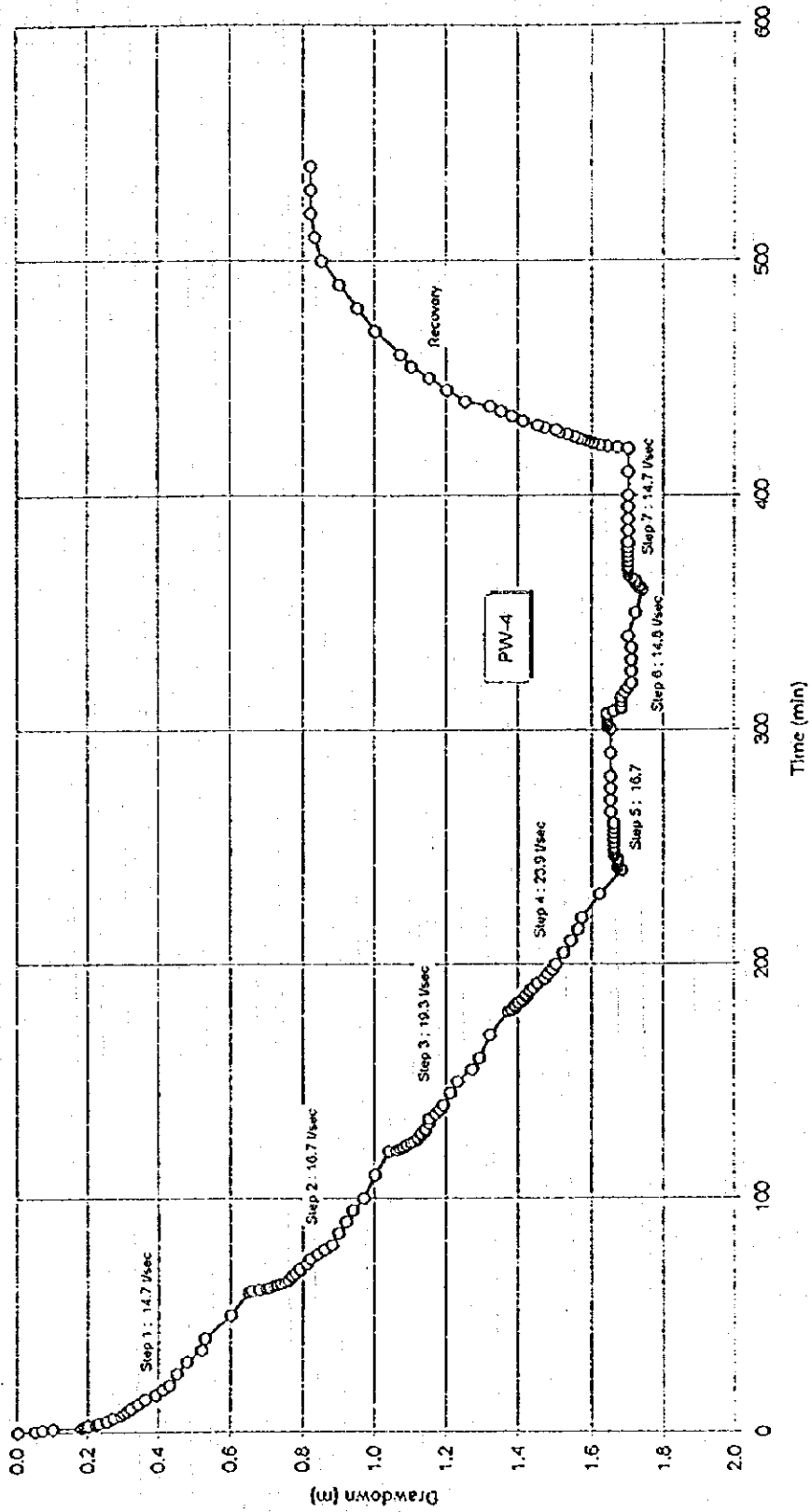
SWISSBORING

A. de Joray

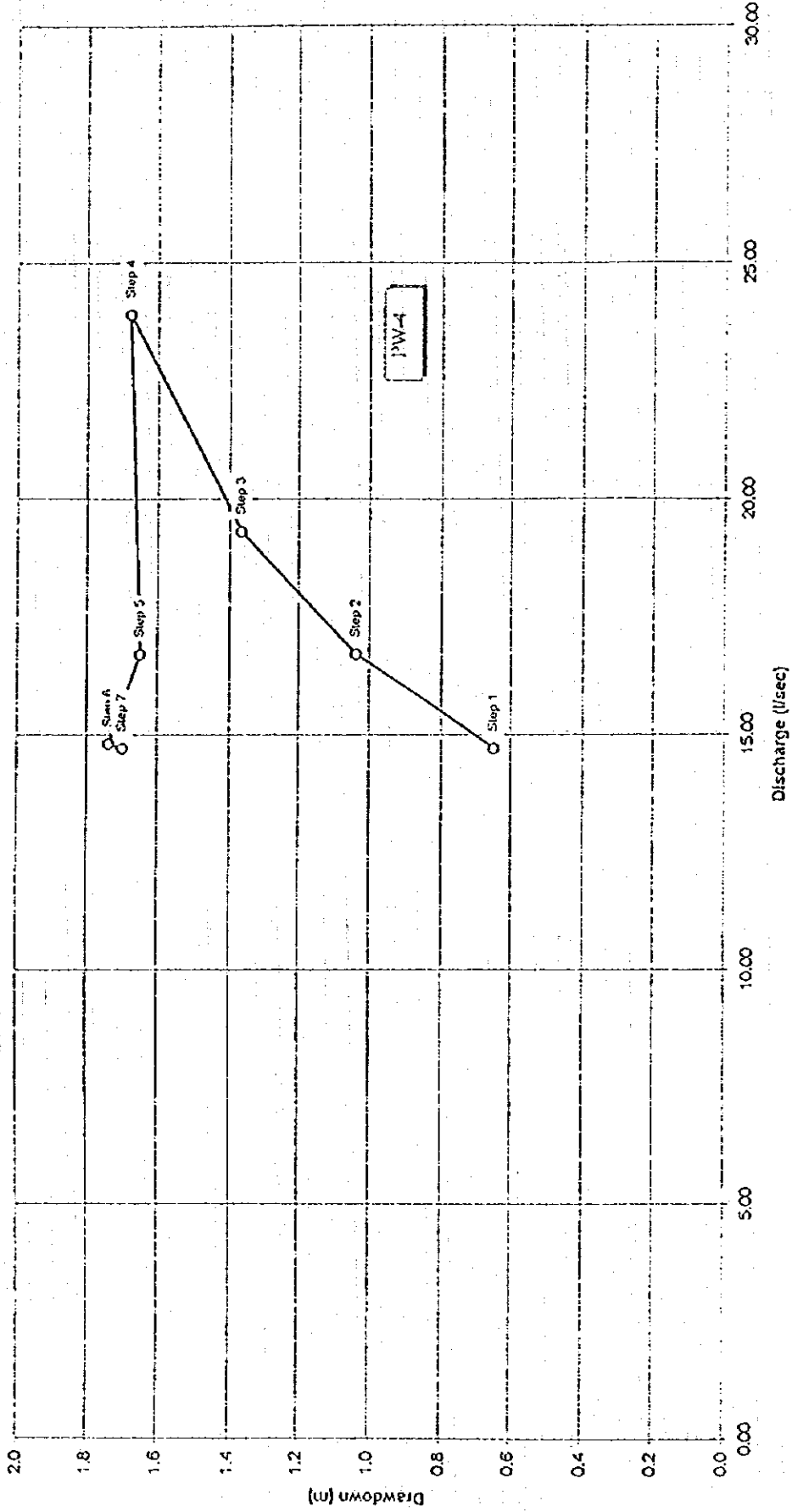
AIRLIFT PUMPING TEST IN OW3 (SITE 3) : 20/01/96 Q = 0.56 L/SEC
MUNICIPALITY WELL



Site 4 : Step Pumping Test (22/03/96)



Site 4 : Step Pumping Test (22/03/96)
 Drawdown v. Discharge



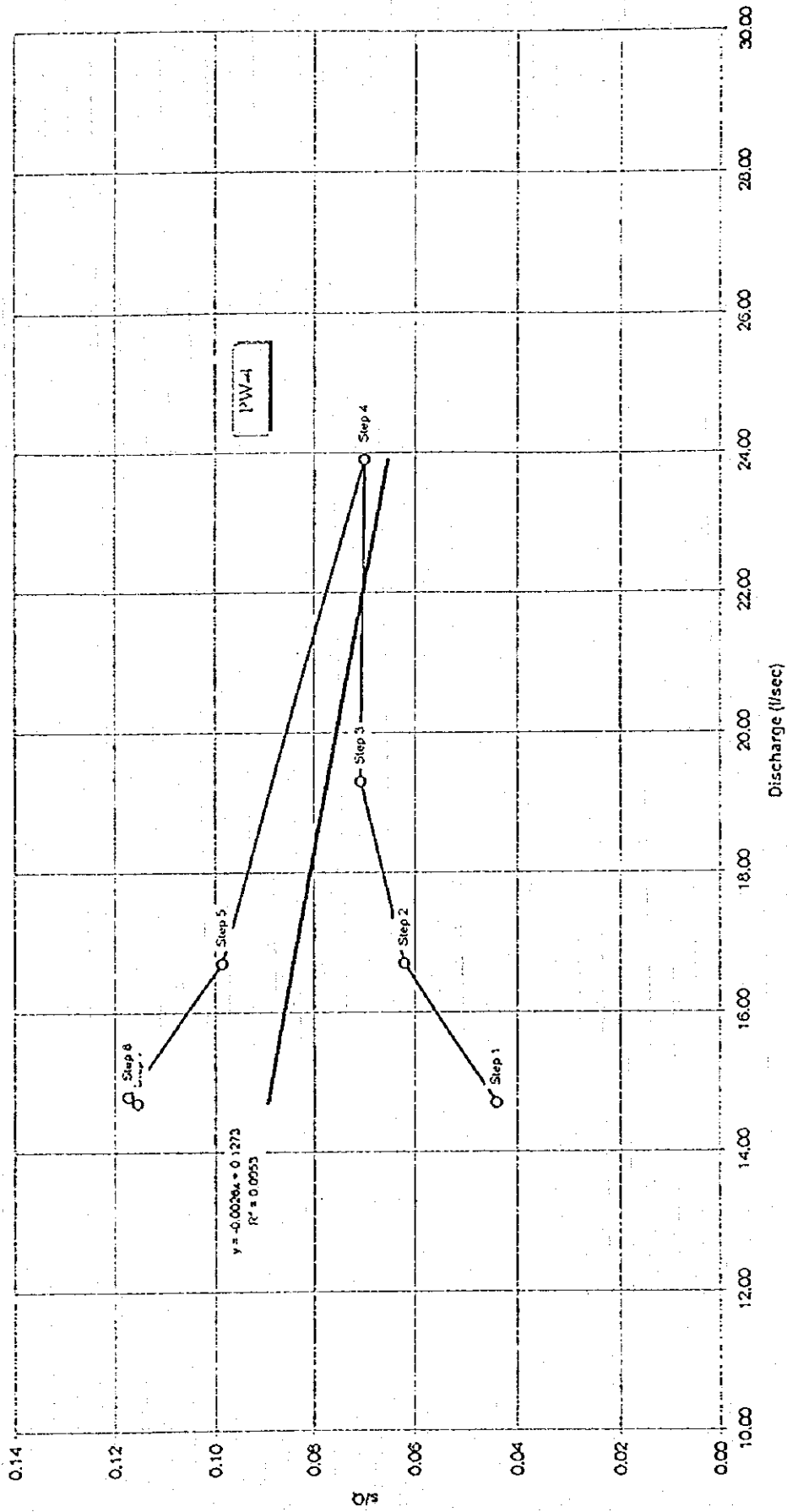
Ap3-284

APW4ST2.XLS
 20/03/96
 11:51 AM

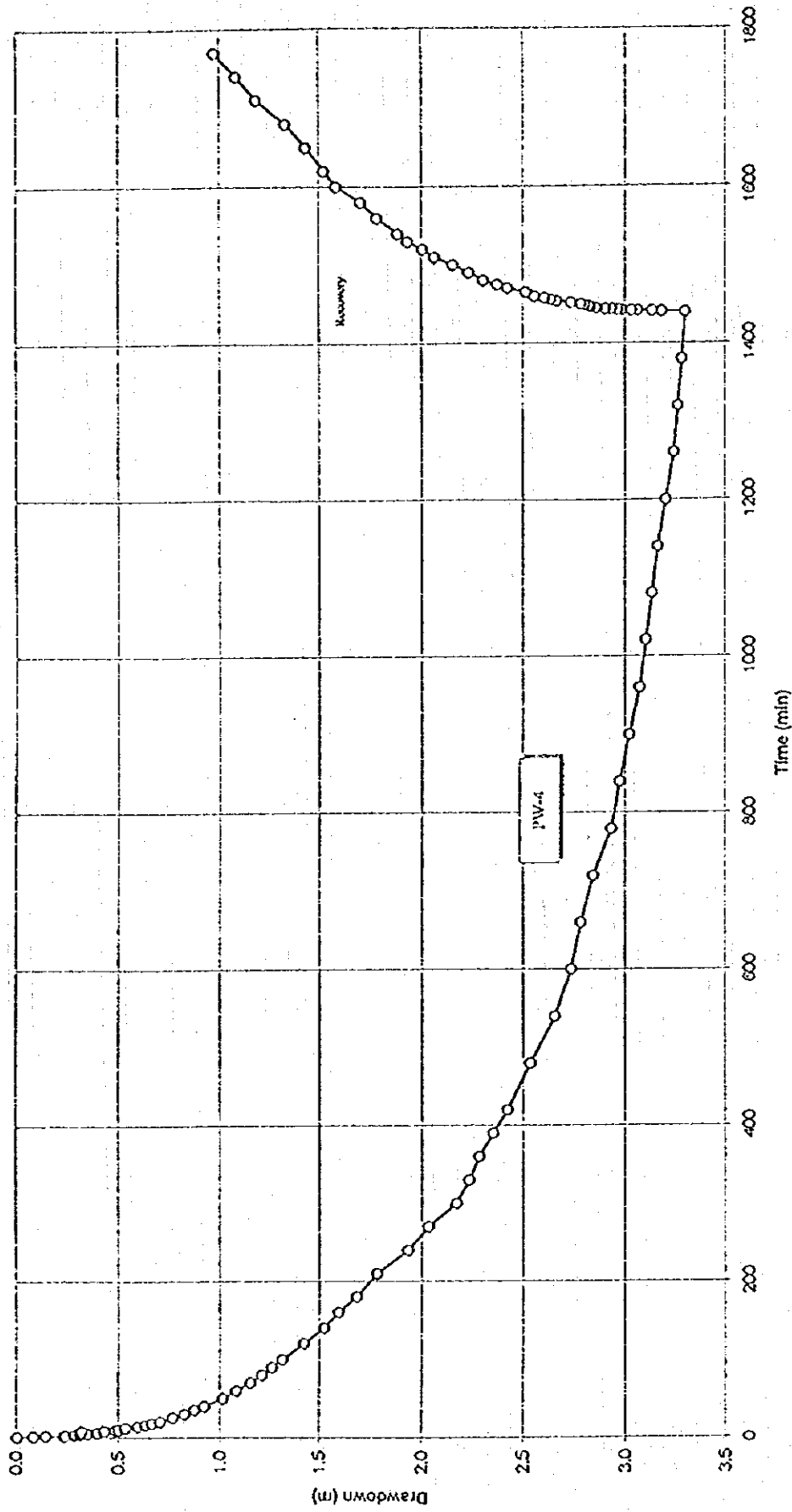
SWISSBORING

A. JO-JUNG

Site 4 : Step Pumping Test (22/03/96)
 PW-4 Well Performance



CONSTANT RATE PUMPING TEST (SITE 4) : 23/03/96
Q = 22 L/SEC

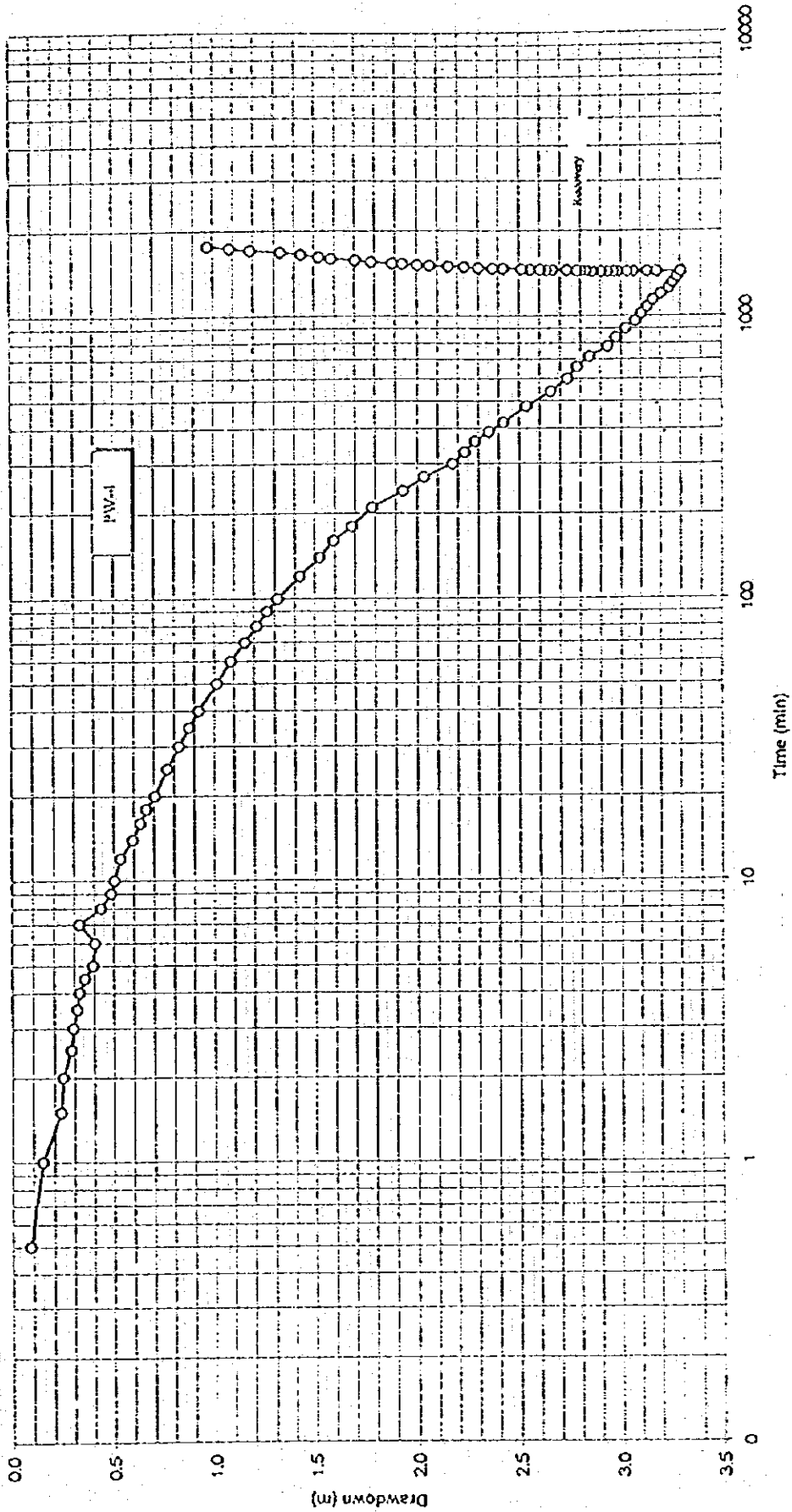


APWERTXLS
23/03/96
11:03 AM

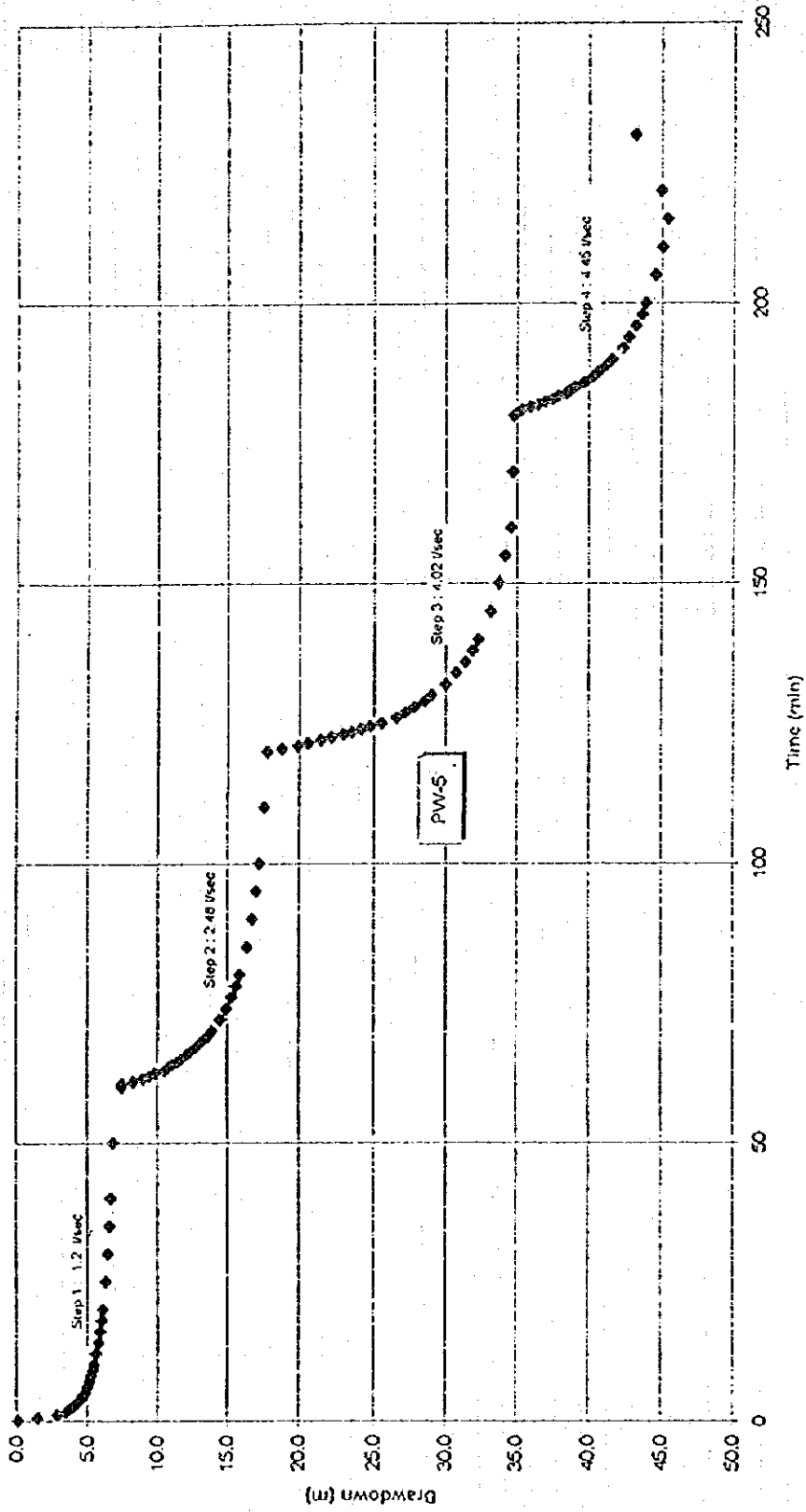
SWISSBORING

A. de Jony

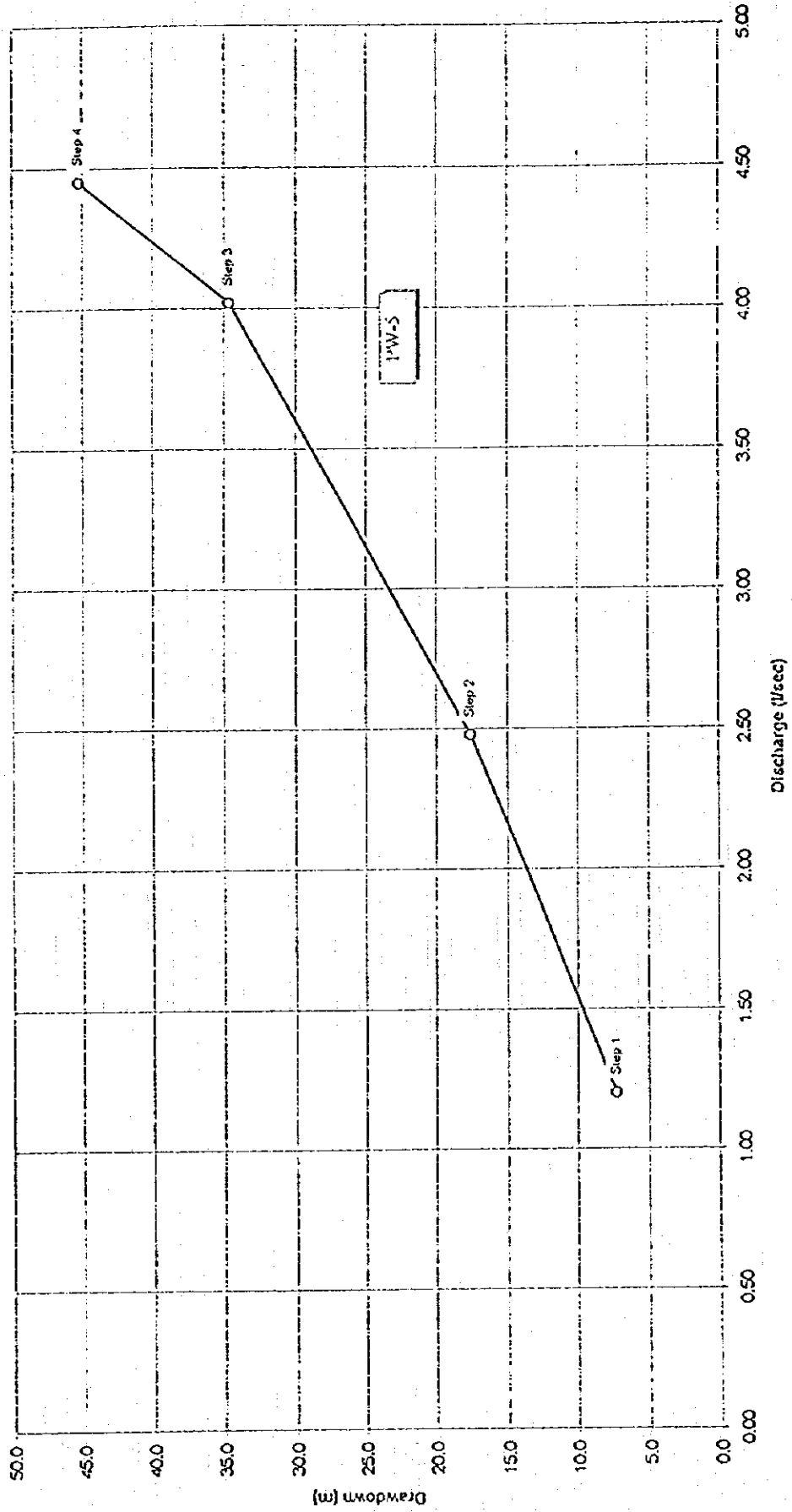
CONSTANT RATE PUMPING TEST (SITE 4) : 23/03/96
 Q = 22 L/SEC



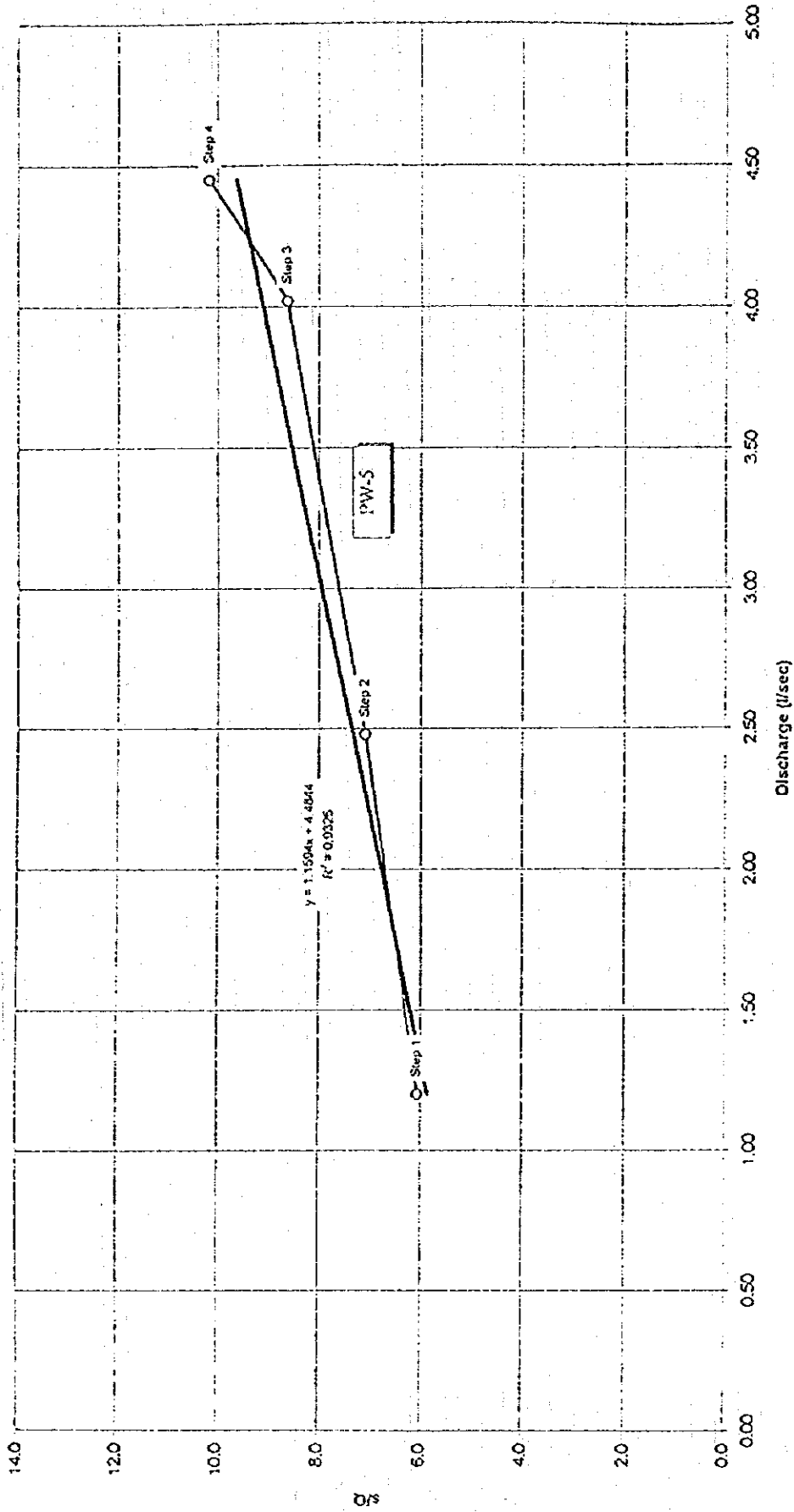
Site 5 : Step Pumping Test 1 (12/01/96)



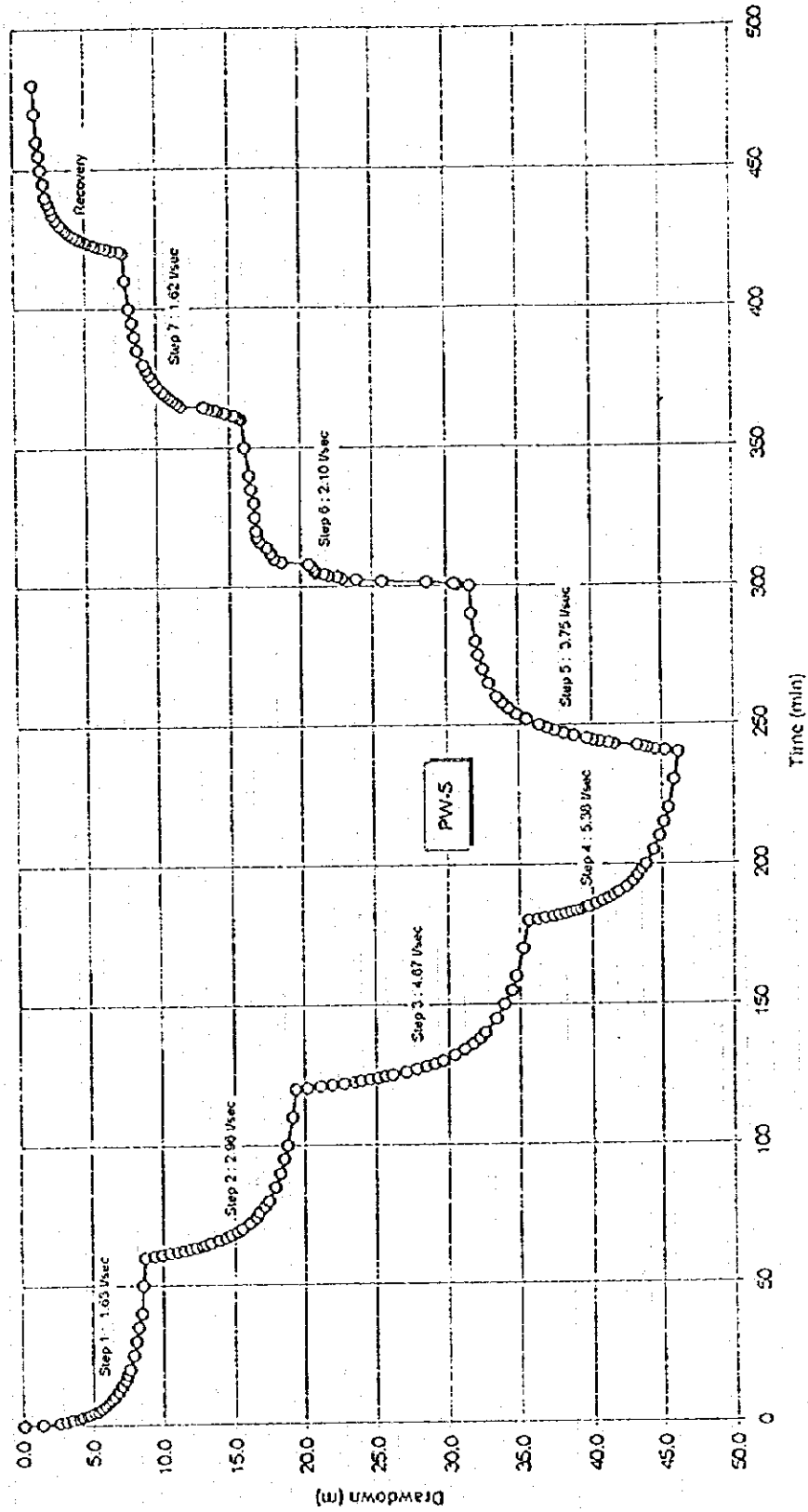
Site 5 : Step Pumping Test 1 (12/01/96)
Drawdown v. Discharge



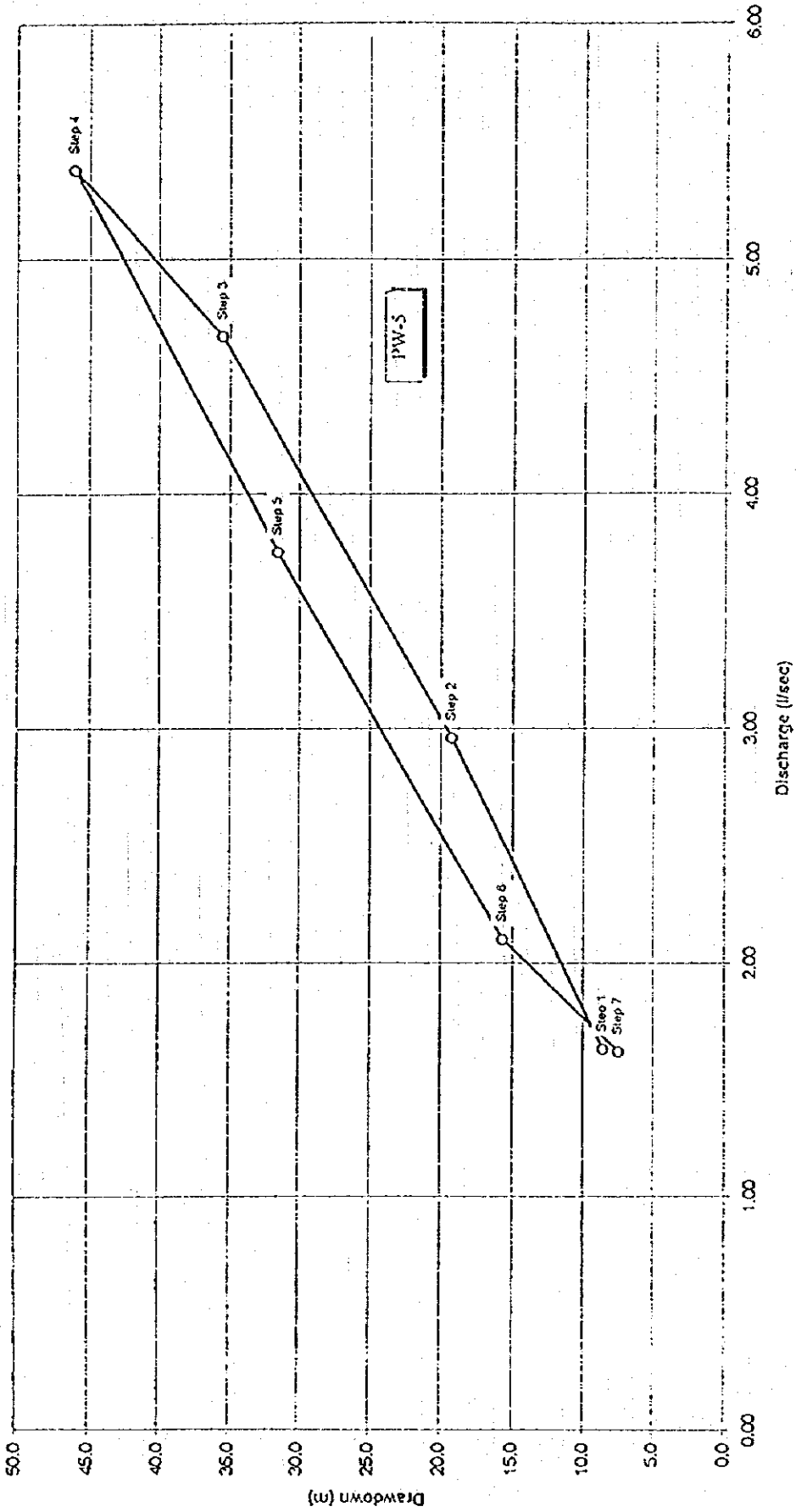
Site 5 : Step Pumping Test (12/01/96)
PW-5 Well Performance



Site 5 : Step Pumping Test 2 (13/01/96)



Site 5 : Step Pumping Test 2 (13/01/96)
 Drawdown v. Discharge

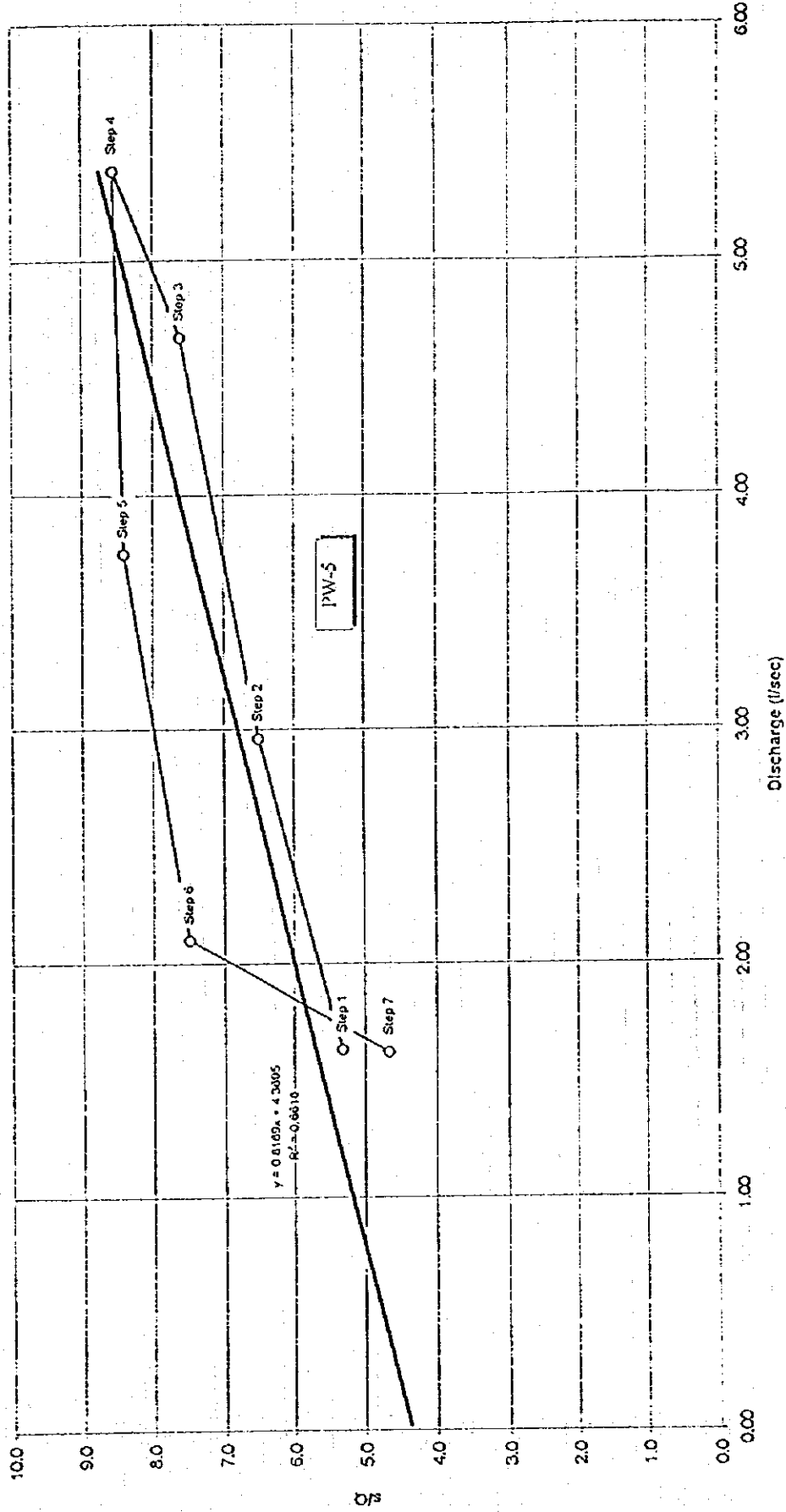


APWS5T2.XLS
 20/2/96
 1:26 PM

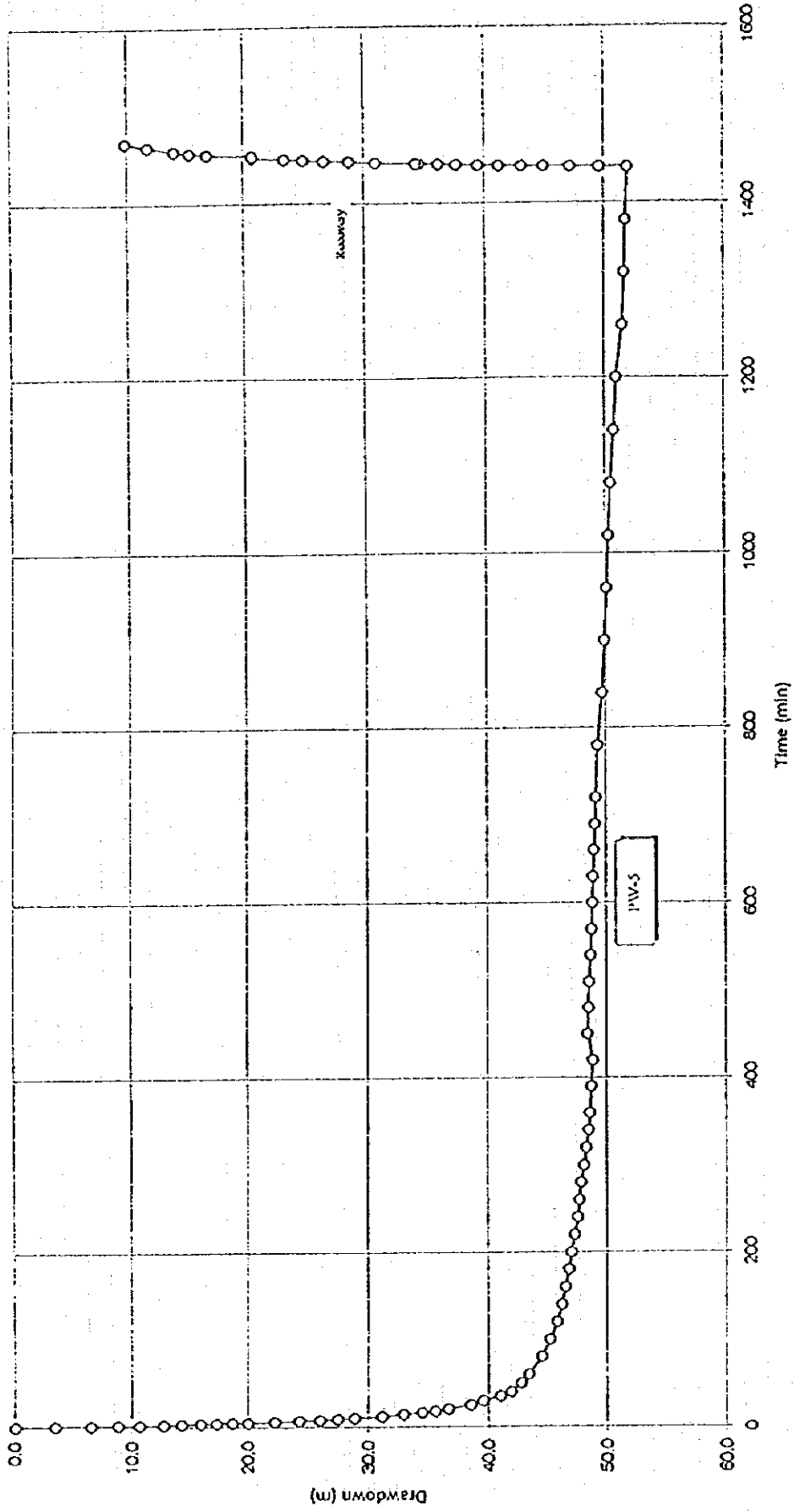
SWISSBORING

A. de Jolly

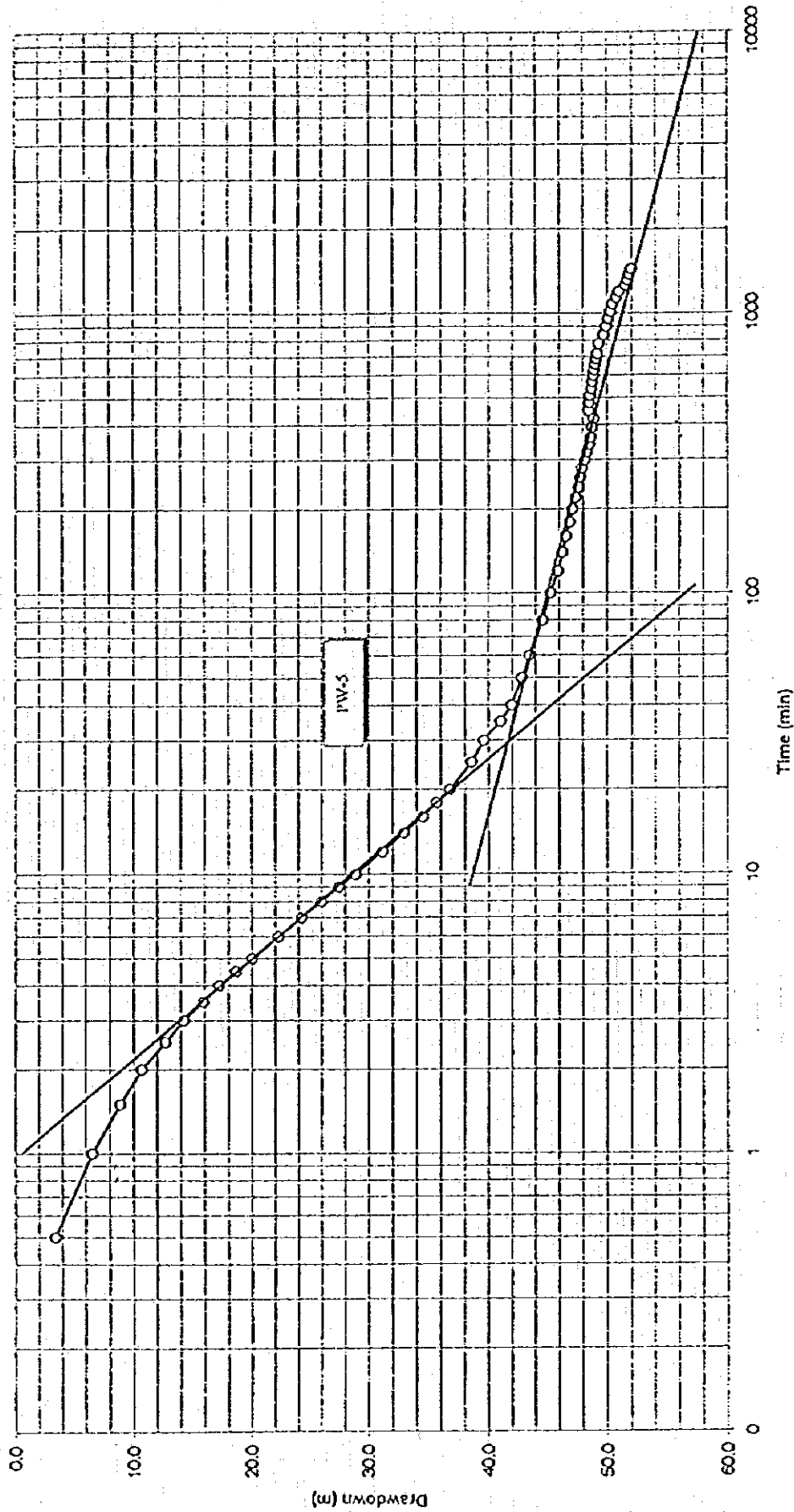
Site 5 : Step Pumping Test 2 (13/01/96)
PW-5 Well Performance



CONSTANT RATE PUMPING TEST (SITE 5) : 14/01/96
 Q = 5.25 L/SEC



CONSTANT RATE PUMPING TEST (SITE 5) : 14/01/96
 Q = 5.25 L/SEC



Ap3-295

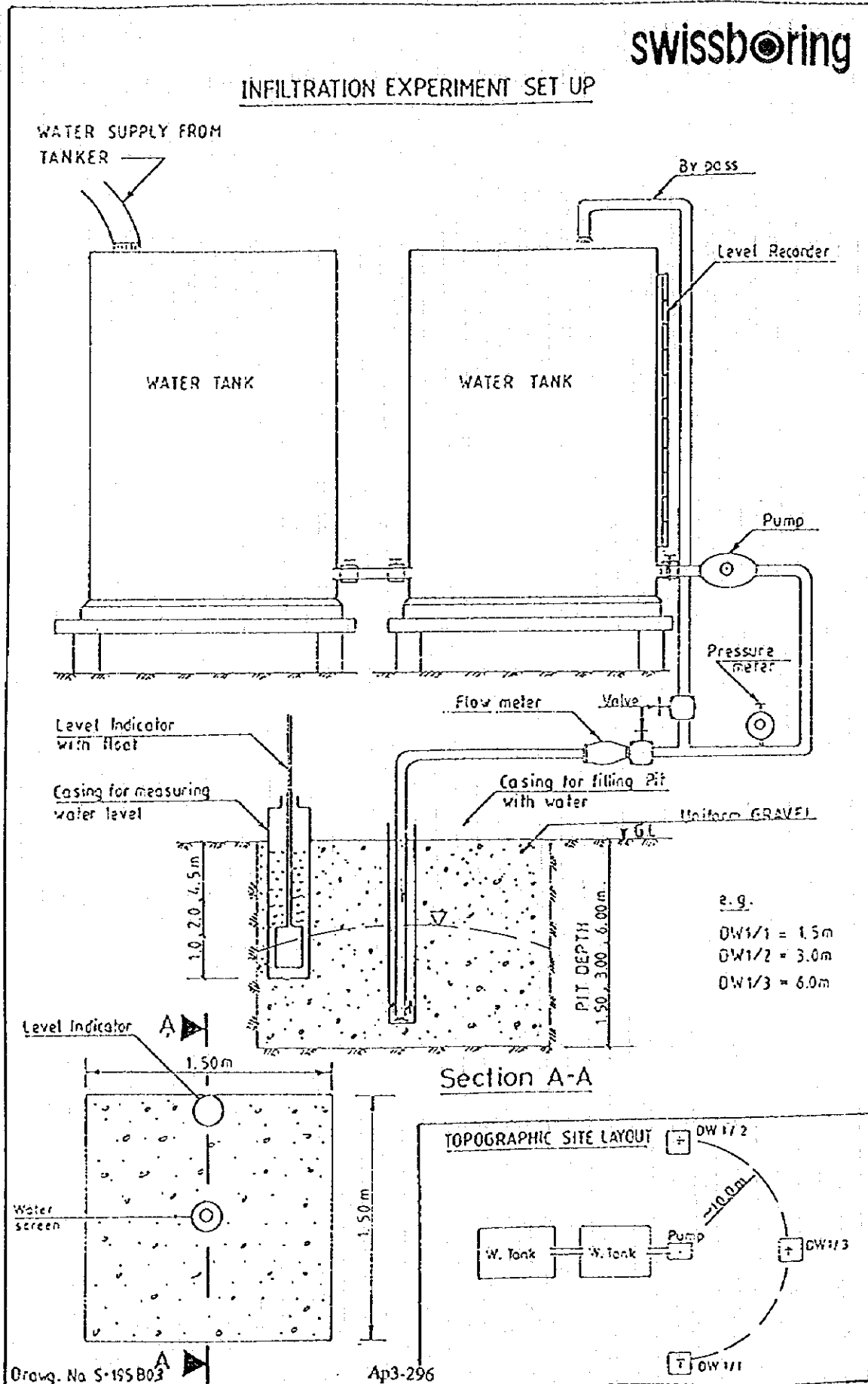
APWSPT.XLS
 20/09/96
 4:00 PM

SWISSBORING

A de Jongh

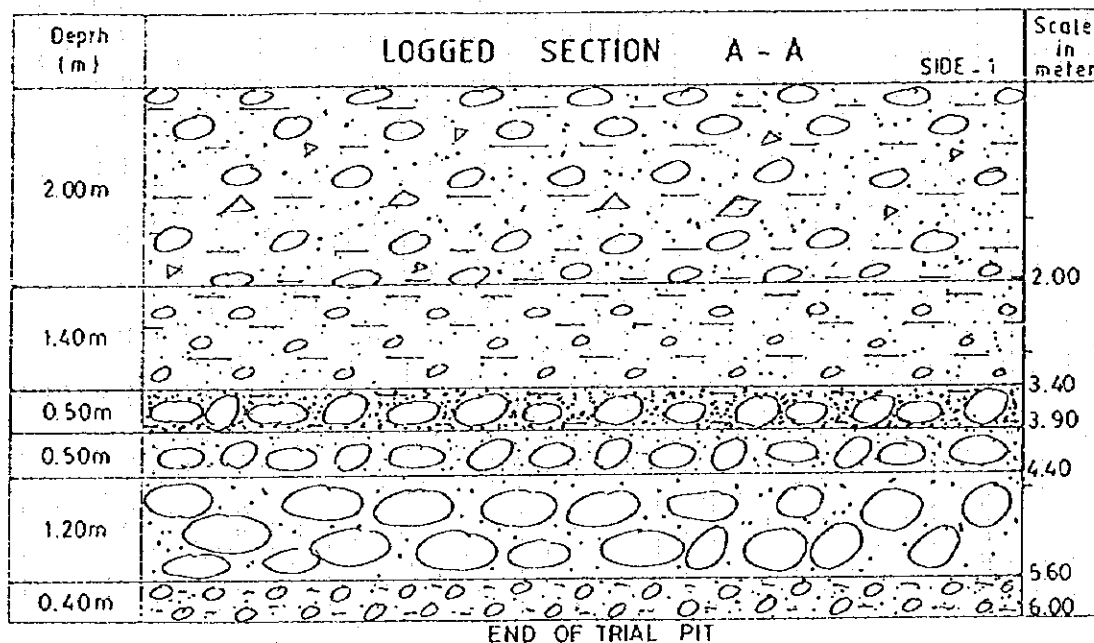
3.4. Infiltration Experiment

3.4. 1. Infiltration Experiment Set Up



3.4.2. Soil Logs (DW1, DW2-2, DW3-3)

Client:	JICA STUDY TEAM, DUBAI.	swissboring
Consultant:		
Site:	AL DHAID.	Job N° S-195
INFILTRATION PIT NO. DW1-3		
UTM Co-ords:		
Ref. level	Scale: 1:75 in depth.	Logged on date: GWT



VISUAL SOIL DESCRIPTION:

- 0.0 m to 2.0 m : GRAVEL upto 6 cm in size with thin lamination of fine sand, angular to rounded and consist of highly weathered ophiolite
- 2.00 m to 3.40 m : Silty SAND with weakly cemented gravels
- 3.40 m to 3.90 m : GRAVELS, Pale brown to white carbonate cement matrix with slightly silty sand.
- 3.90 m to 4.40 m : Same as above with better cementation.
- 4.40 m to 5.60 m : GRAVELS in brown, slightly silty sandy matrix. Gravels are generally moderately rounded, poorly sorted.
- 5.60 m to 6.00 m : Dense, red orange brown SAND & GRAVEL in a red silty clay matrix.

REMARKS :

Drwg. No. Date :
 Drawn by: Checked by:

Client: JICA STUDY TEAM, DUBAI.

swissboring

Consultant:

Site: AL DHAID.

Job Nr S-195

INFILTRATION PIT NO. DW2-3

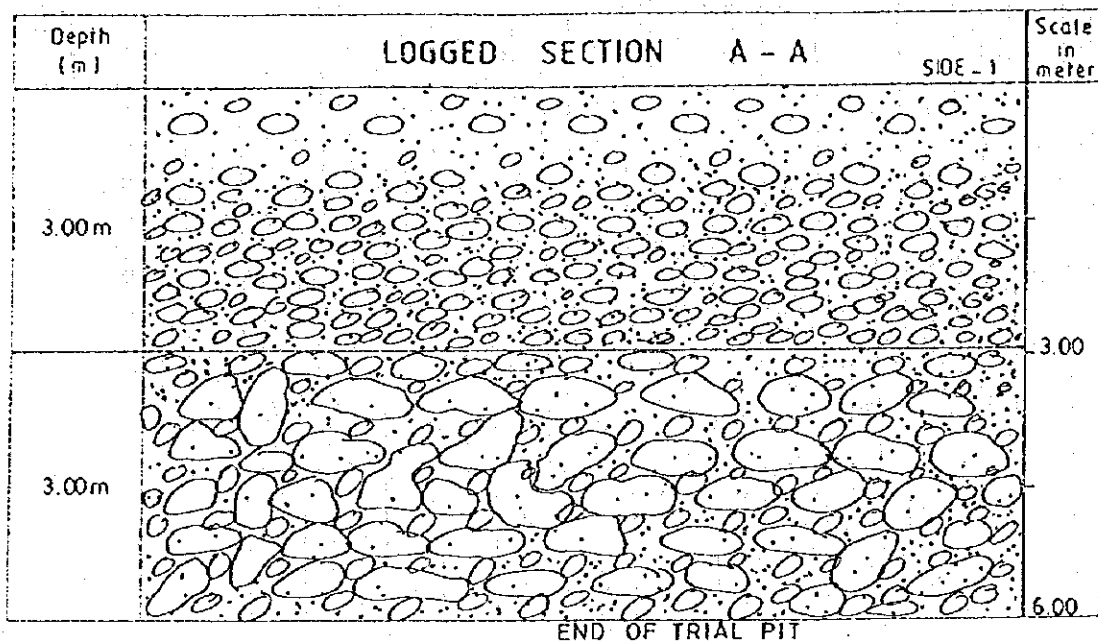
UTM Co-ords:

Ref. level

Scale: 1:75 in depth.

Logged on date:

GWT



VISUAL SOIL DESCRIPTION:

- 0.00 m to 3.00 m : Fine GRAVEL and sandy GRAVEL becoming well cemented below 1.00 m. pebbles of maximum 5 cm in size. Also mafic and ultra mafic rocks are present.
- 3.00 m to 6.00 m : Same as above with boulders upto 0.5 m in size.

REMARKS:

Ap3-298

Drwg. No.

Date:

Drawn by:

Checked by:

Ap3-298

Client: JICA STUDY TEAM, DUBAI.

swissboring

Consultant:

Site: AL DHAID.

Job N° S-195

INFILTRATION PIT NO. DW3-3

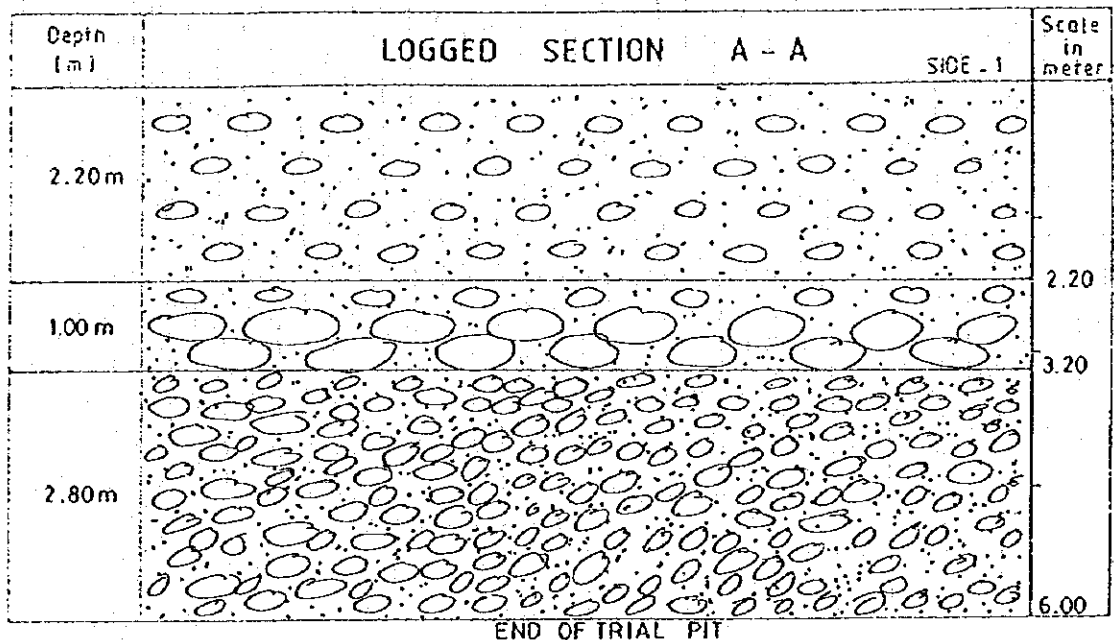
UTM Co-ords:

Ref. level

Scale: 1:75 in depth.

Logged on date:

GWT



VISUAL SOIL DESCRIPTION:

- 0.00 m to 2.20 m : Fine to medium grained moderately sorted GRAVEL in a sandy weakly cemented matrix.
- 2.20 m to 3.20 m : Same as above with bigger gravels.
2.7 - 3.20 - Boulders upto 10 to 15 cm are found.
- 3.20 to 6.00 m : Well cemented GRAVELS.

REMARKS :

Ap3-299

Drawg. No.

Date :

Drawn by:

Checked by:

Ap3-299

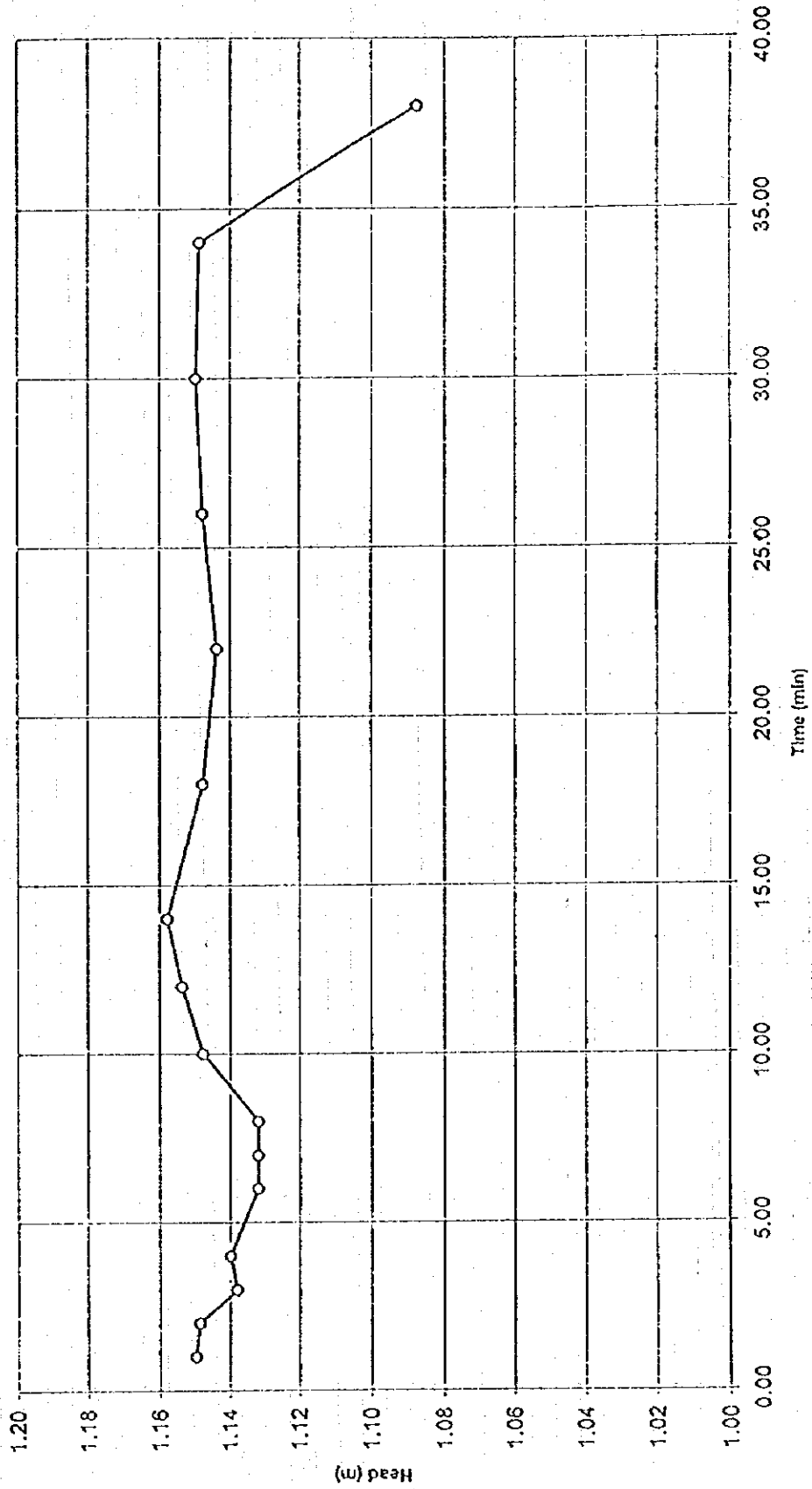
3.4.3. Permeability Coefficients Estimated from Grain-size Analysis

PIT NO. (Total Depth)	Sampling Section (m)	Hazen #3	Creager, Justin, Hinds	Slichter			Zamarin			Kazeni			Terzaghi					
				n=2	n=0.4	n=0.5	n=0.6	n=0.4	n=0.5	n=0.6	n=0.4	n=0.5	n=0.6	n=0.4	n=0.5	n=0.6		
DW-1/1 (1.50m) DW-1/2 (3m) DW-1/3 (6m)	0.00 - 1.50 0.00 - 1.50 1.50 - 2.30 2.30 - 3.00 0.00 - 1.50 1.50 - 3.00 3.00 - 4.00 4.00 - 5.00 5.00 - 6.00	1.2E+00 4.9E-01 1.1E+00 3.4E-01 2.8E-01 3.4E-01 5.4E-01 7.7E-01 6.7E-01	1.8E+00 5.3E-01 1.4E+00 3.2E-01 3.6E-01 4.0E-01 6.6E-01 1.2E+00 7.8E-01	5.7E-01	1.2E+00	2.2E+00	5.8E-01	8.2E-01	9.0E-01	7.6E-01	1.7E+00	3.4E+00	4.4E-01	1.1E+00	2.3E+00			
				2.3E-01	4.8E-01	8.7E-01	3.9E-01	5.6E-01	6.1E-01	3.0E-01	6.6E-01	1.3E+00	1.8E-01	4.2E-01	1.8E-01	4.2E-01	9.1E-01	
				5.1E-01	1.1E+00	2.0E+00	4.1E-01	5.8E-01	6.3E-01	6.8E-01	1.5E+00	3.0E+00	3.9E-01	9.4E-01	2.1E+00	3.9E-01	9.4E-01	2.1E+00
				1.8E-01	3.3E-01	6.1E-01	2.9E-01	4.1E-01	4.5E-01	2.1E-01	4.6E-01	9.3E-01	1.2E-01	2.9E-01	7.5E-01	9.9E-02	2.4E-01	6.3E-01
				1.6E-01	3.7E-01	4.9E-01	2.7E-01	3.8E-01	3.6E-01	2.1E-01	3.7E-01	7.5E-01	1.2E-01	2.9E-01	7.5E-01	9.9E-02	2.4E-01	6.3E-01
				1.6E-01	3.7E-01	4.9E-01	2.7E-01	3.8E-01	3.6E-01	2.1E-01	3.7E-01	7.5E-01	1.2E-01	2.9E-01	7.5E-01	9.9E-02	2.4E-01	6.3E-01
				2.5E-01	5.2E-01	9.6E-01	4.4E-01	6.2E-01	6.8E-01	4.4E-01	6.2E-01	6.8E-01	4.7E-01	1.0E+00	2.1E+00	1.9E-01	6.6E-01	1.0E+00
				3.5E-01	7.4E-01	1.4E+00	5.3E-01	7.6E-01	8.4E-01	5.3E-01	7.6E-01	8.4E-01	4.7E-01	1.0E+00	2.1E+00	1.9E-01	6.6E-01	1.0E+00
				3.1E-01	6.5E-01	1.2E+00	3.1E-01	4.3E-01	4.8E-01	3.1E-01	4.3E-01	4.8E-01	4.1E-01	9.0E-01	1.8E+00	2.4E-01	5.7E-01	1.2E+00
				2.3E-01	4.8E-01	8.7E-01	2.6E-01	3.6E-01	4.0E-01	2.6E-01	3.6E-01	4.0E-01	3.0E-01	6.6E-01	1.3E+00	1.8E-01	4.2E-01	9.1E-01
DW-2/1 (1.5m) DW-2/2 (3m) DW-2/3 (6m) DE-2/3 (6m) DW-3/1 (1.5m) DW-3/2 (3m) DW-3/3 (6m)	0.75 - 1.50 0.00 - 0.80 0.80 - 2.00 2.00 - 3.00 0.00 - 0.75 0.75 - 1.40 1.40 - 2.50 2.50 - 4.50 4.50 - 6.00 0.50 - 0.75 0.75 - 1.50 0.75 - 1.50 1.50 - 2.50 0.00 - 0.75 0.75 - 2.00 2.00 - 2.50 2.50 - 3.00 3.00 - 4.50 4.50 - 6.00	2.2E+00 4.5E-01 9.1E-01 1.1E+00 1.2E+00 9.1E-01 4.5E-01 4.5E-01 2.2E+00 2.1E-01 5.5E-02 NA*4 1.4E+00 2.8E-01 4.2E-01 1.2E+00 2.8E-01 1.7E+00 4.9E-01	1.0E-01 9.1E-01 9.1E-01 1.1E+00 1.2E+00 9.1E-01 4.5E-01 4.5E-01 2.2E+00 2.1E-01 5.5E-02 NA*4 1.4E+00 2.8E-01 4.2E-01 1.2E+00 2.8E-01 1.7E+00 4.9E-01	2.1E-01 5.5E-02 NA 4.6E-02 1.8E+00 3.6E-01 4.5E-01 3.0E+00 3.6E-01 3.8E+00 7.8E-01 2.3E-01	2.0E-01 5.3E-02 NA NA 1.3E+00 2.7E-01 4.0E-01 1.2E+00 2.7E-01 1.6E+00 7.6E-01 2.3E-01	3.7E-01 9.7E-02 NA NA 2.4E+00 4.9E-01 7.3E-01 2.2E+00 4.9E-01 2.9E+00 8.7E-01	5.7E-02 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	2.0E-01 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	2.0E-01 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	2.0E-01 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	2.0E-01 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	2.0E-01 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	2.0E-01 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	2.0E-01 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	2.0E-01 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	2.0E-01 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	2.0E-01 8.0E-02 3.4E-02 1.0E+00 7.2E-01 1.8E-01 2.4E-01 8.5E-01 2.2E-01 9.0E-01 2.9E-01 2.9E-01	

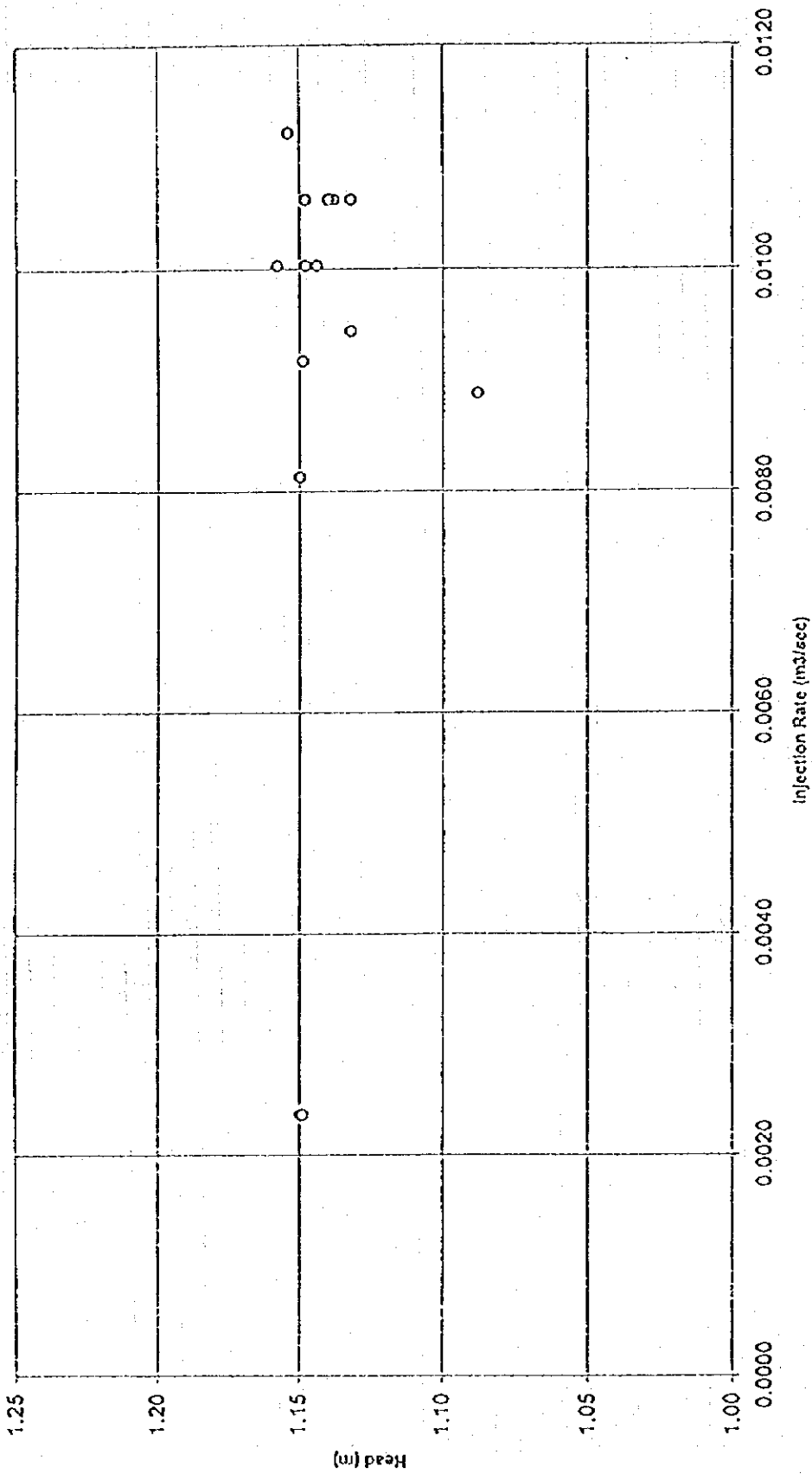
NOTE*1: Empirical Coeff. applied for Hazen's Formula is 0.6.
 *2: "n" is "Total Porosity of Layer applied for Slichter, Zamarin, Kazeni and Terzaghi Formula
 *3: Temperature given in above all formula is 30° C.
 *4: "NA" shows that "not available" results in inadequate grain size distribution for Hazen, Slichter, Zamarin, Kazeni, Terzaghi formula

3.4.4. Result of Infuration Test

Infiltration Test DW1-1 (1.5 m Pit)
Head Changes in Pit v. Time



Infiltration Test DW1-1 (1.5 m Pit)
 Head of Water in Pit v. Injection Rate

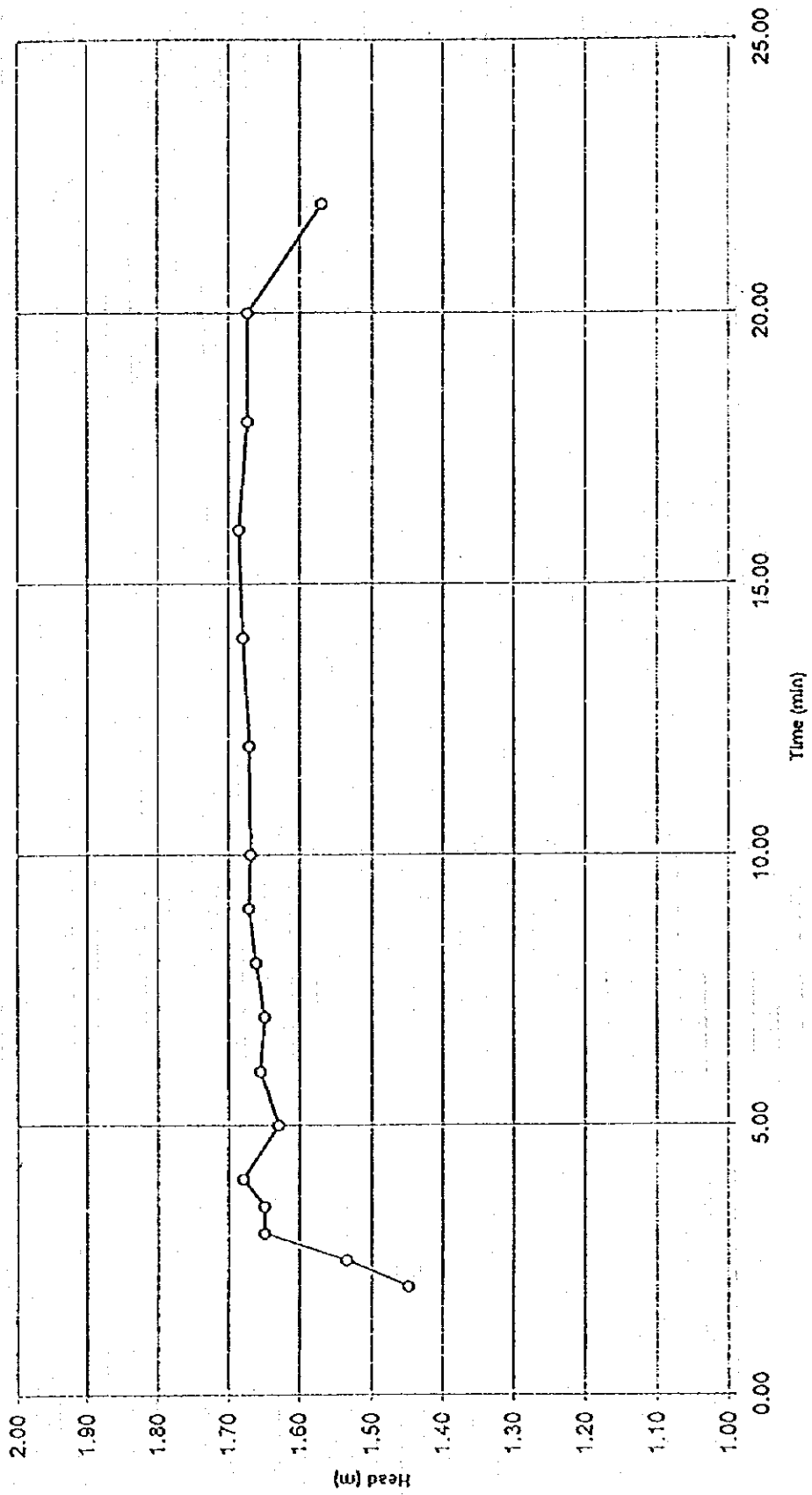


D:\DW11.XLS
 05/02/00
 13:40

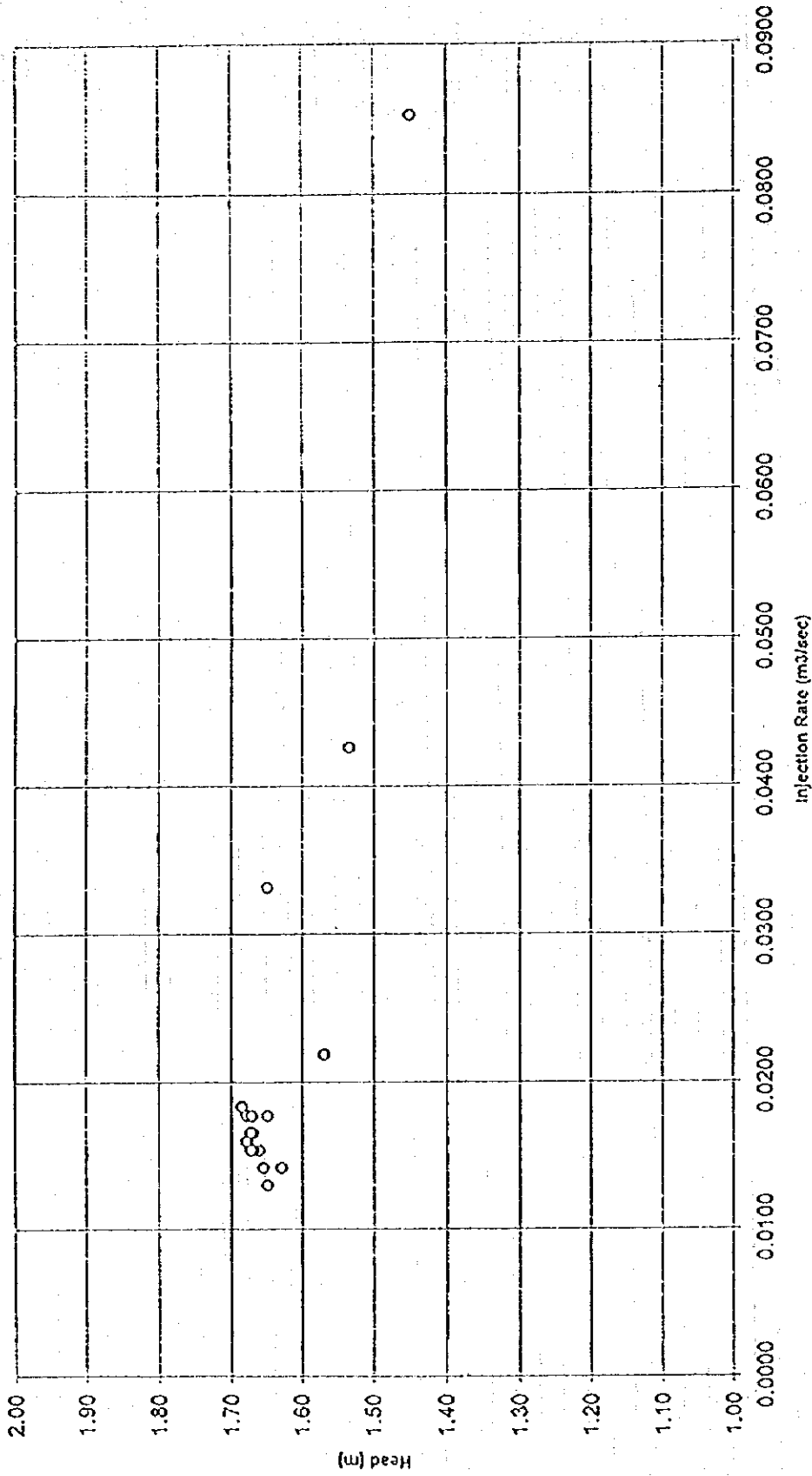
SWISSBORING

A. de Jong

Infiltration Test DW1-2 (3m Pit)
 Head Changes in Pit v. Time



Infiltration Test DW1-2 (3 m Pit)
 Head of Water in Pit v. Injection Rate

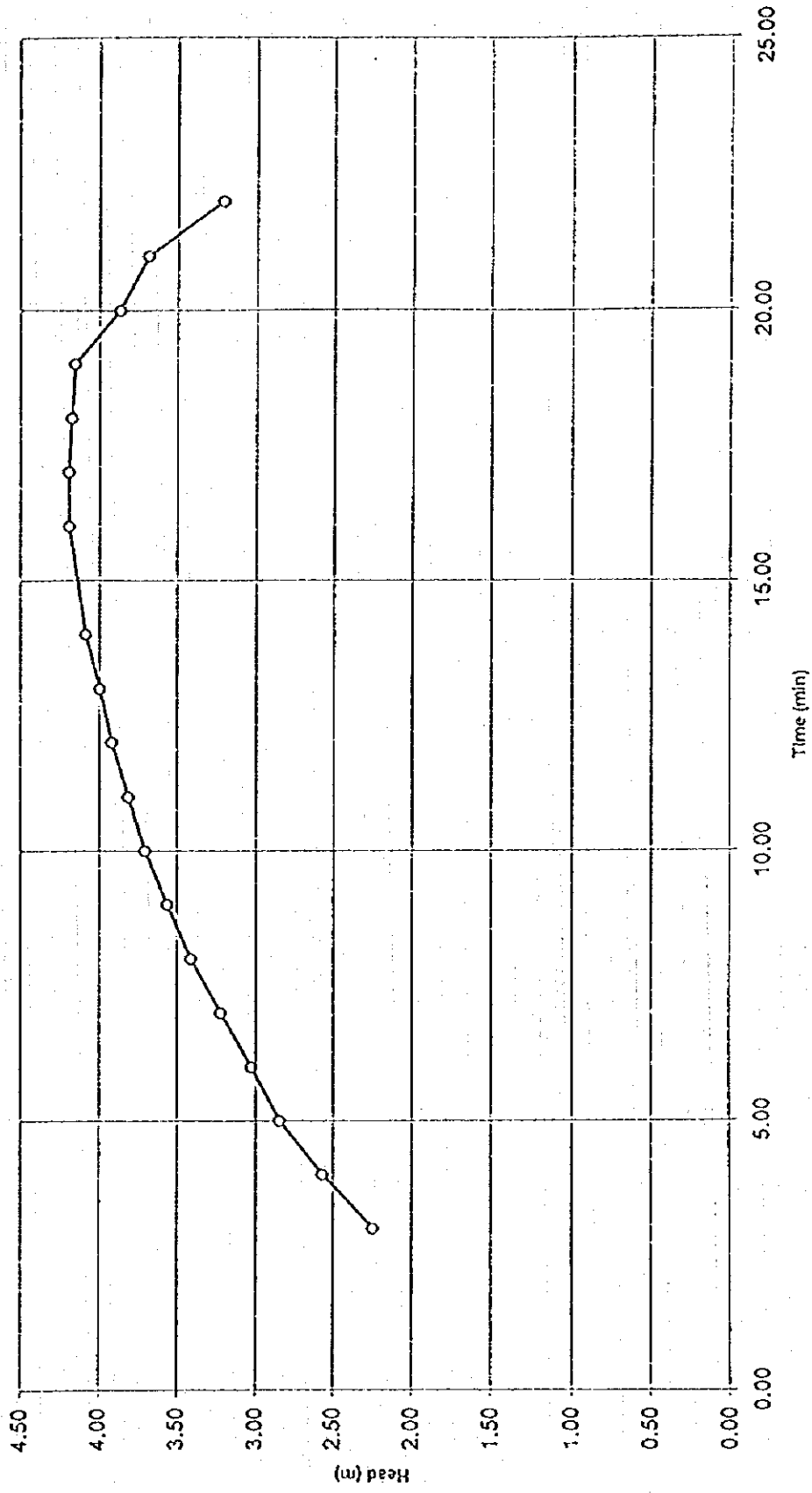


D:\DW12.XLS
 05/02/06
 13:58

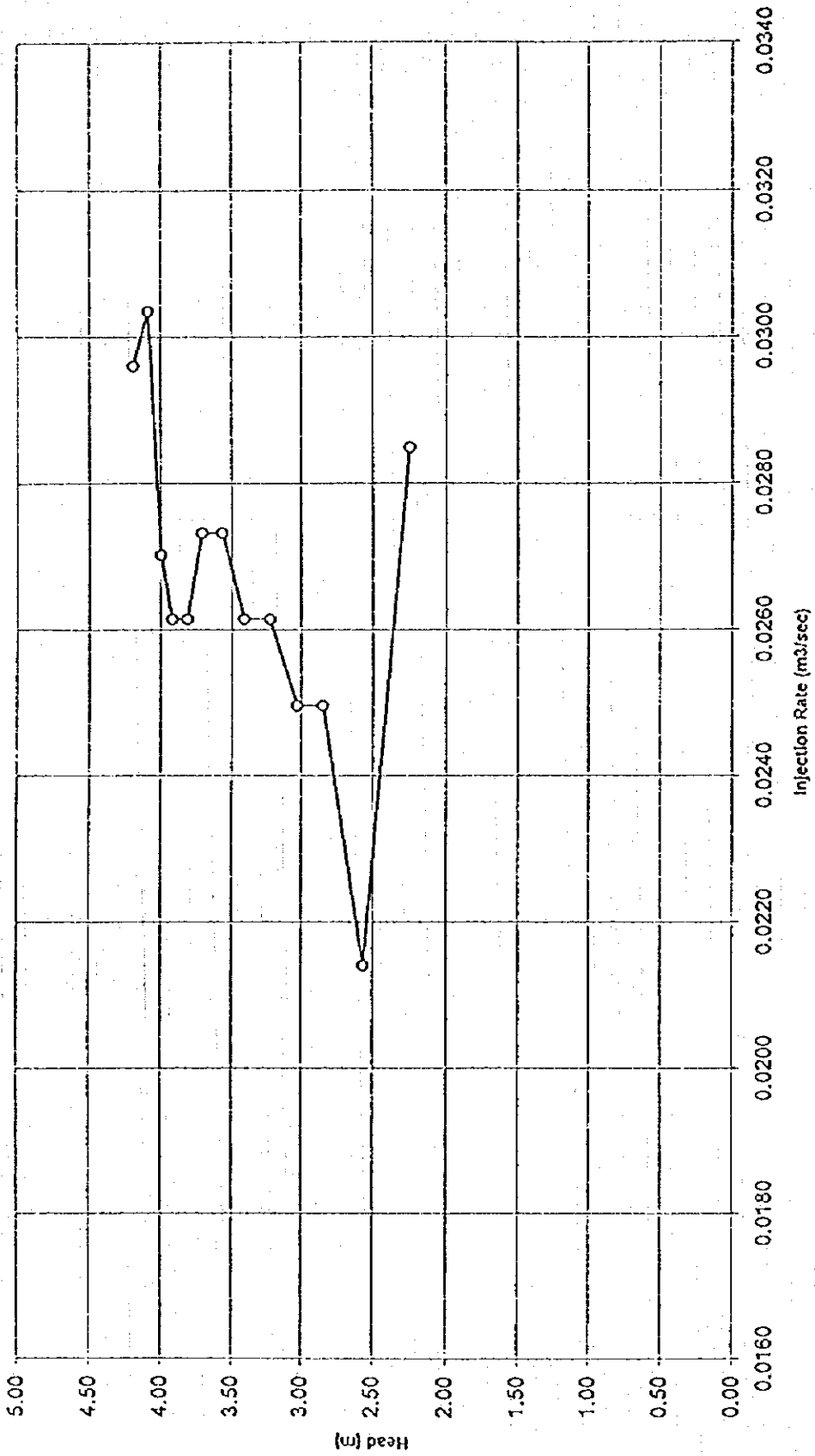
SWISSBORING

A. de Jong

Infiltration Test DW1-3 (6m Pit)
 Head Changes in Pit v. Time



Infiltration Test DW1-3 (6 m Pit)
Head of Water in Pit v. Injection Rate

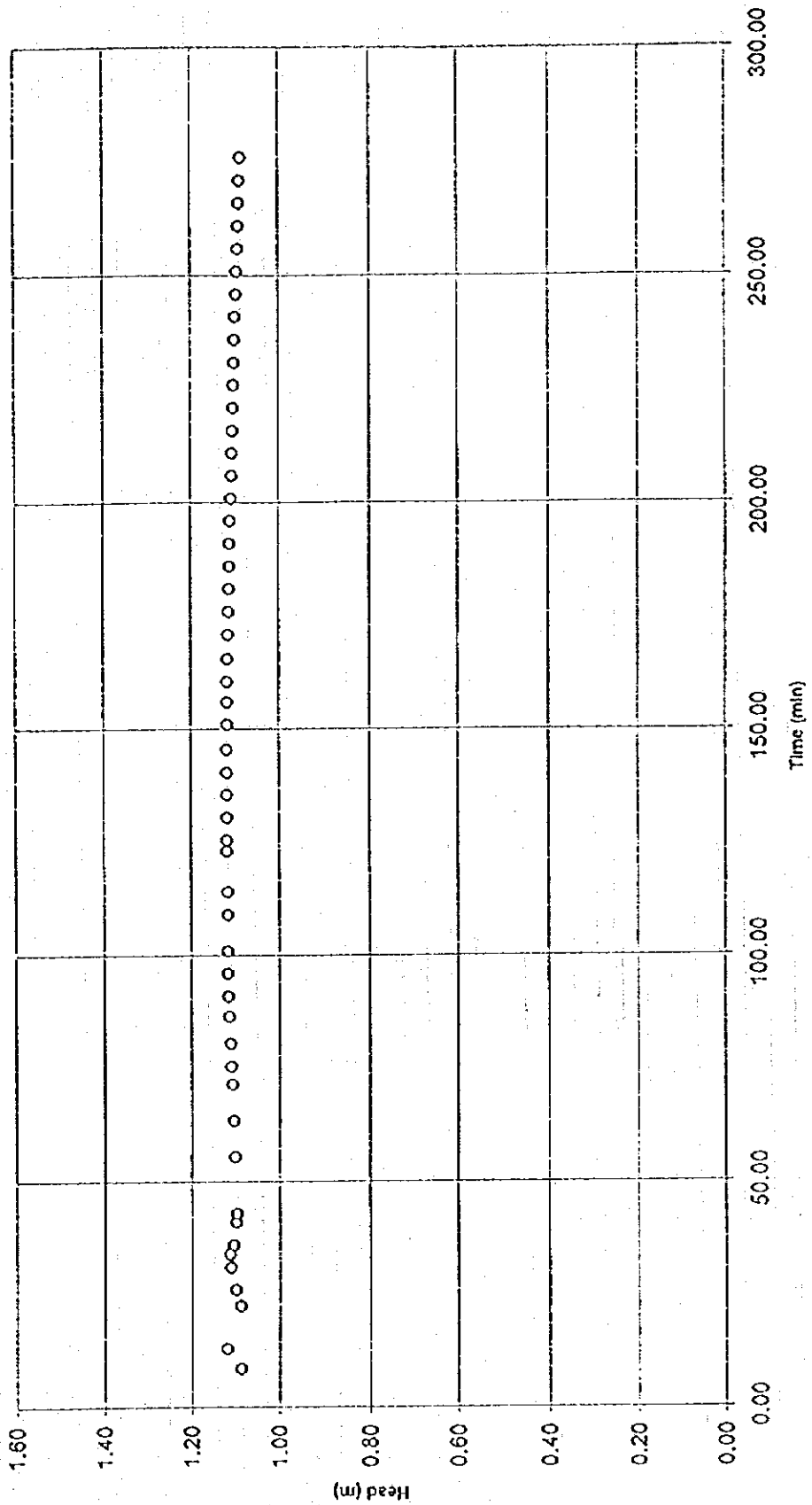


D:\DW1\3.XLS
05/02/06
14:33

SWISSBORING

A. de Jong

Infiltration Test DW2-1 (1.5 m Pit)
 Head Changes in Pit v. Time



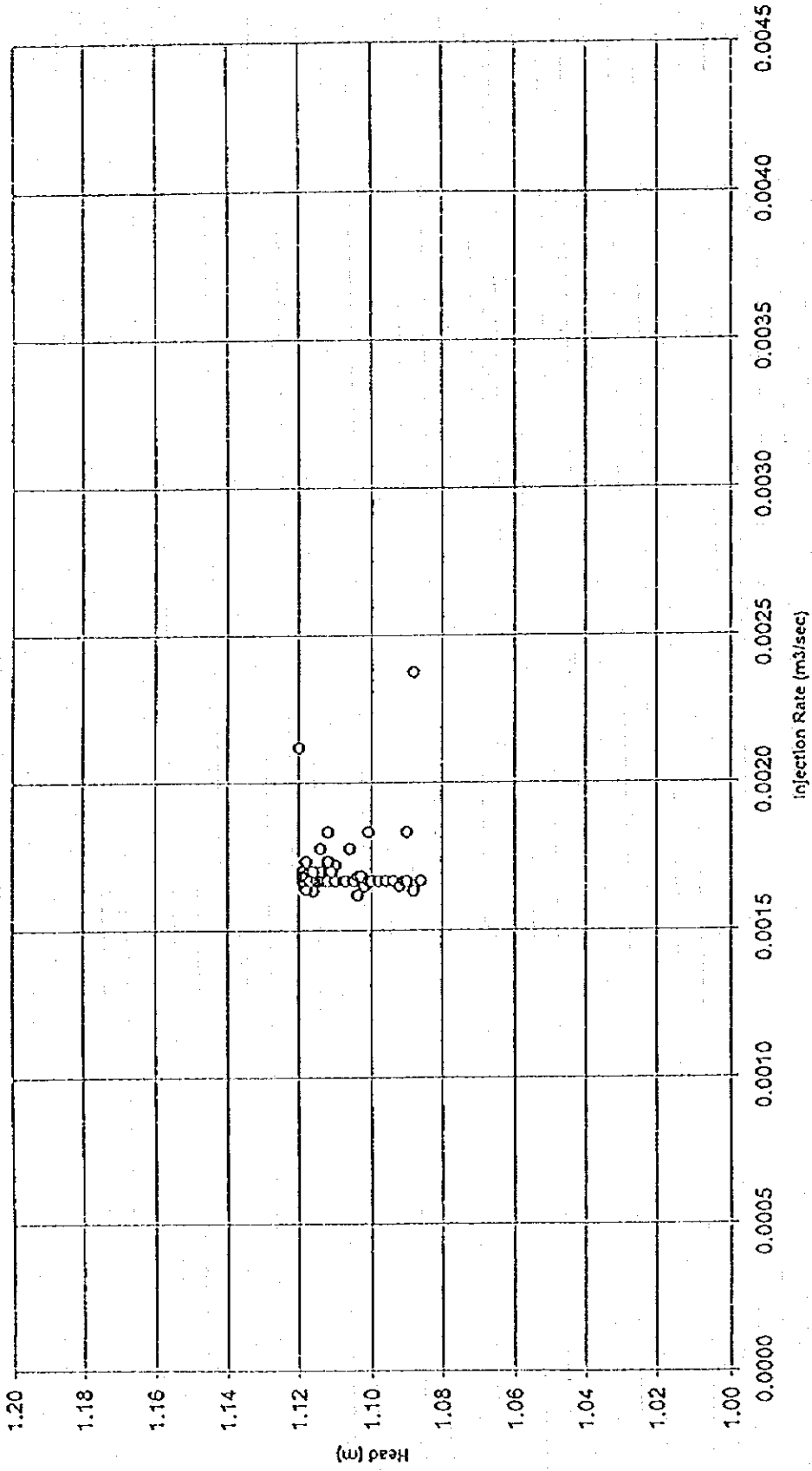
Ap3-307

D:\DW21.XLS
 05/02/00
 14:35

SWISSBORING

A. de Jong

Infiltration Test DW2-1 (1.5 m Pit)
Head of Water in Pit v. Injection Rate

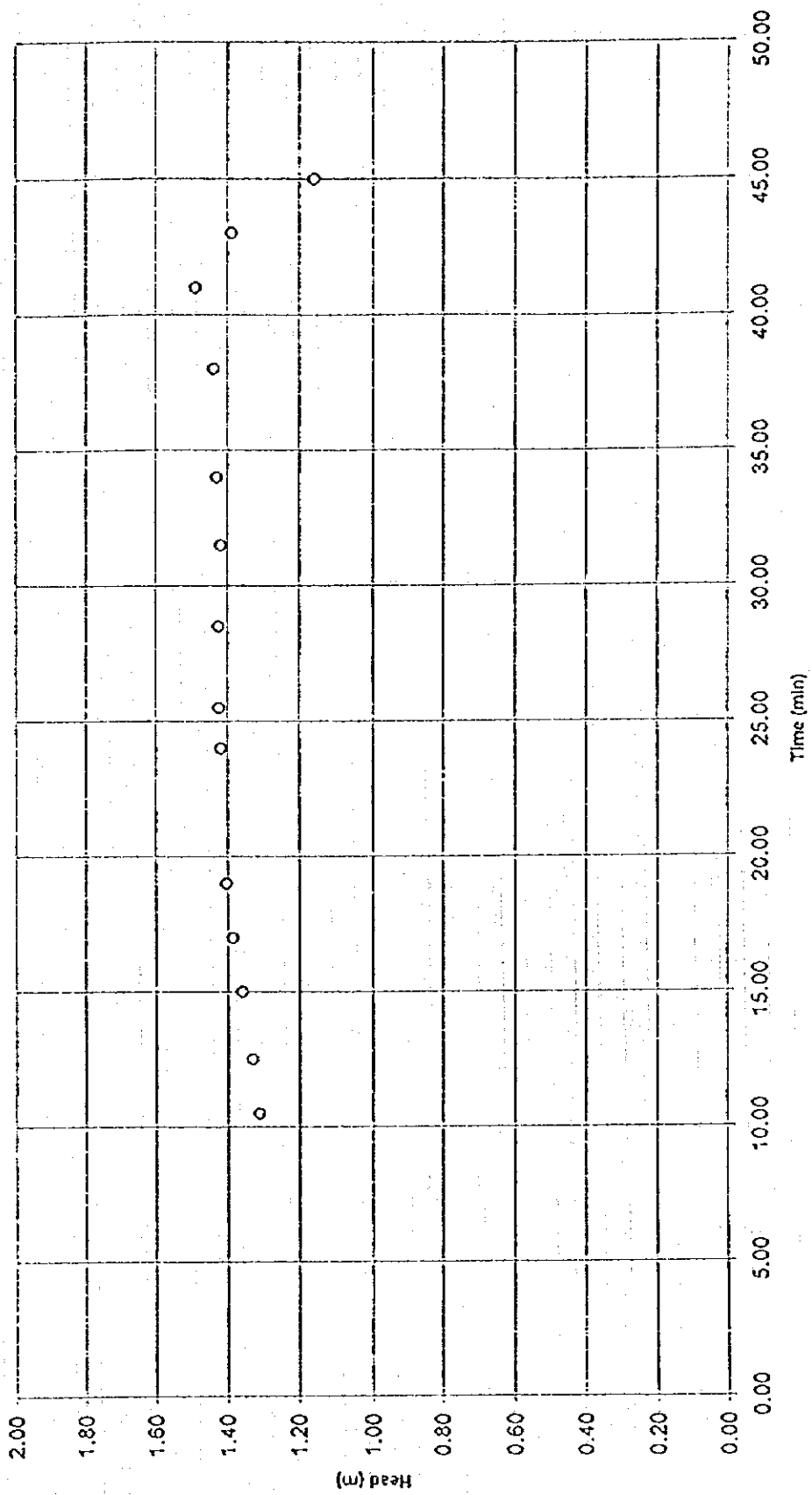


D:\DW21.XLS
05/02/06
14:37

SWISSBORING

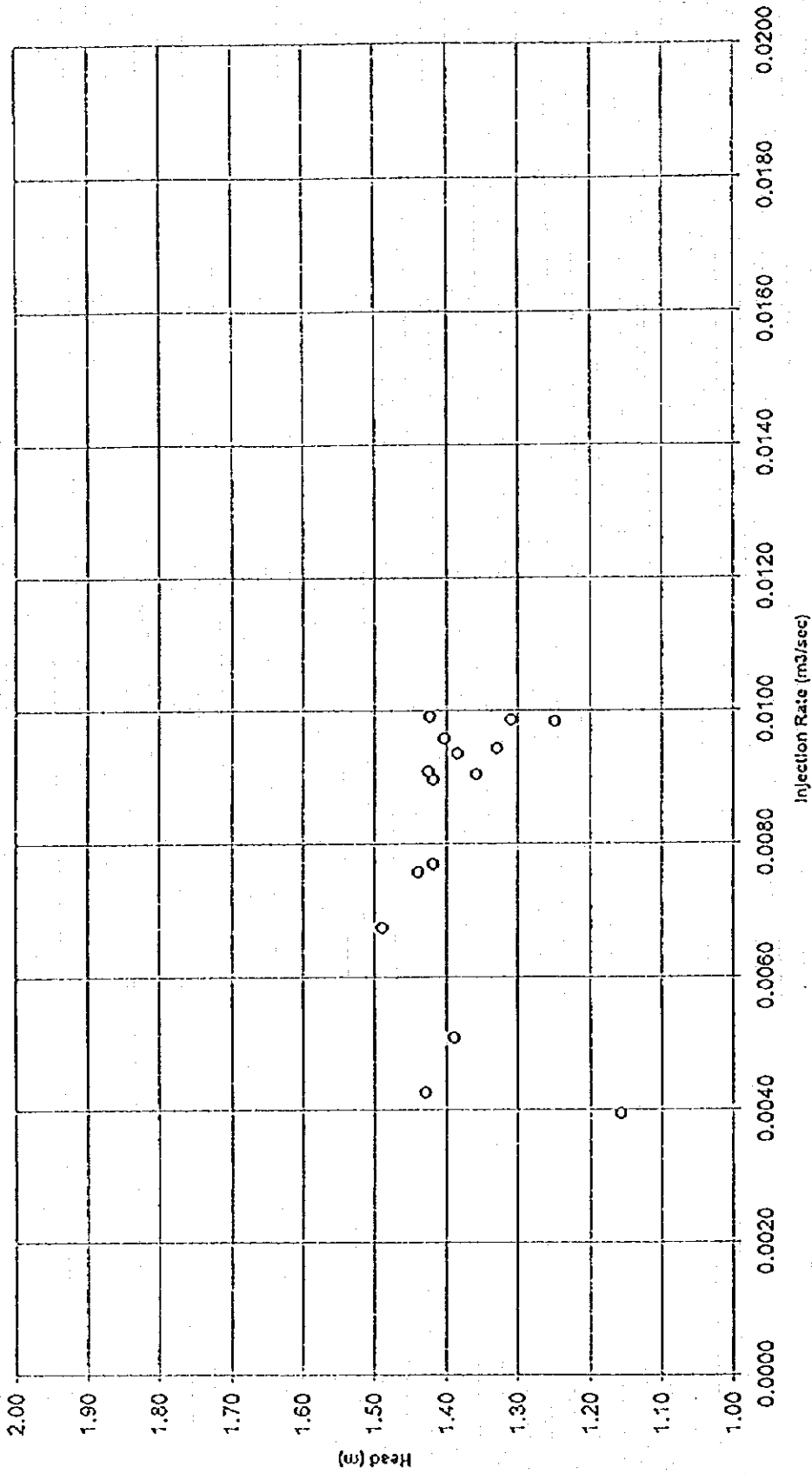
A. de Jong

Infiltration Test DW2-2 (3m Pit)
 Head Changes in Pit v. Time



Ap3-309

Infiltration Test DW2-2 (3 m Pit)
 Head of Water in Pit v. Injection Rate

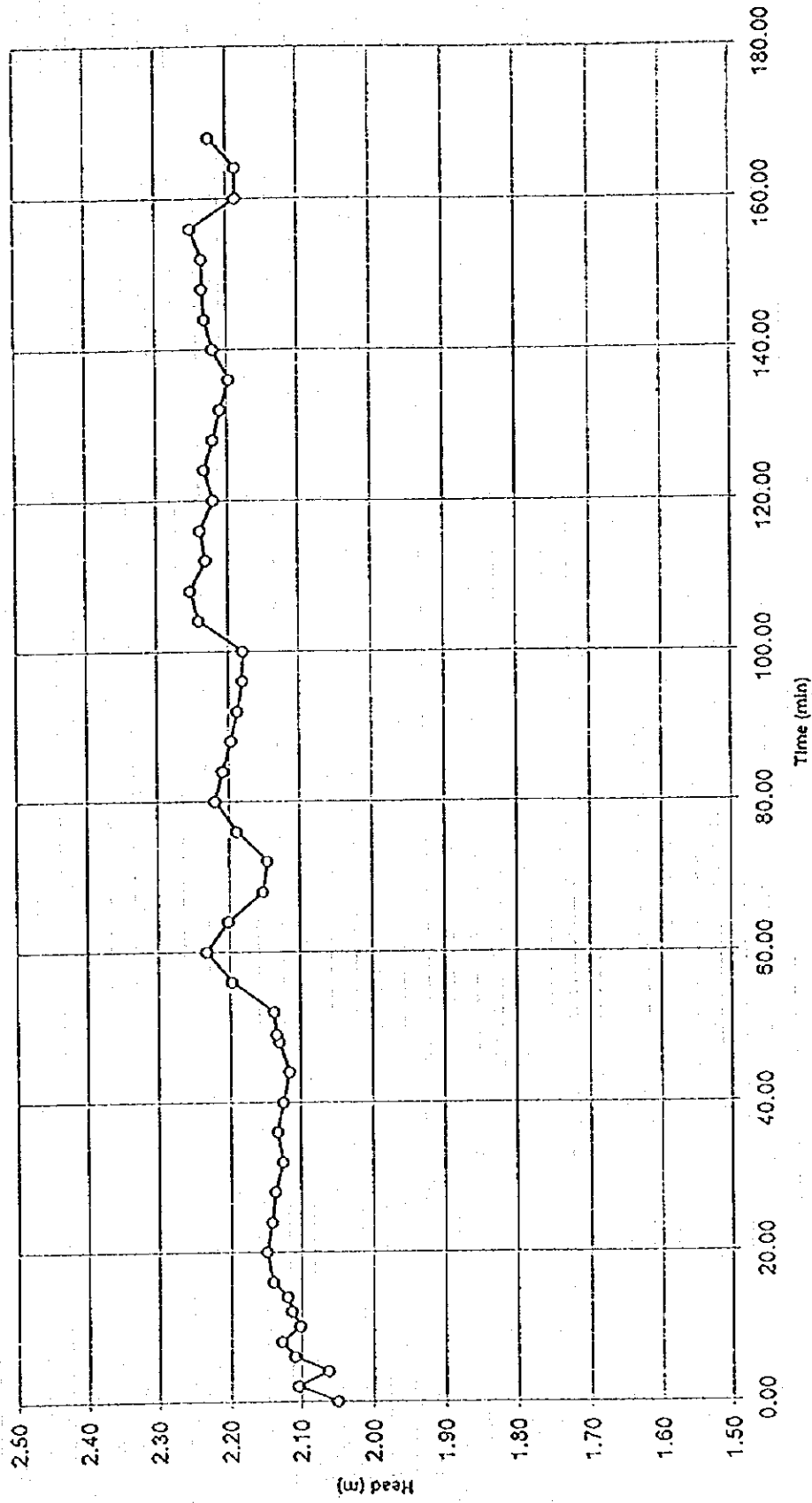


D:\DW22.XLS
 05/02/95
 15:01

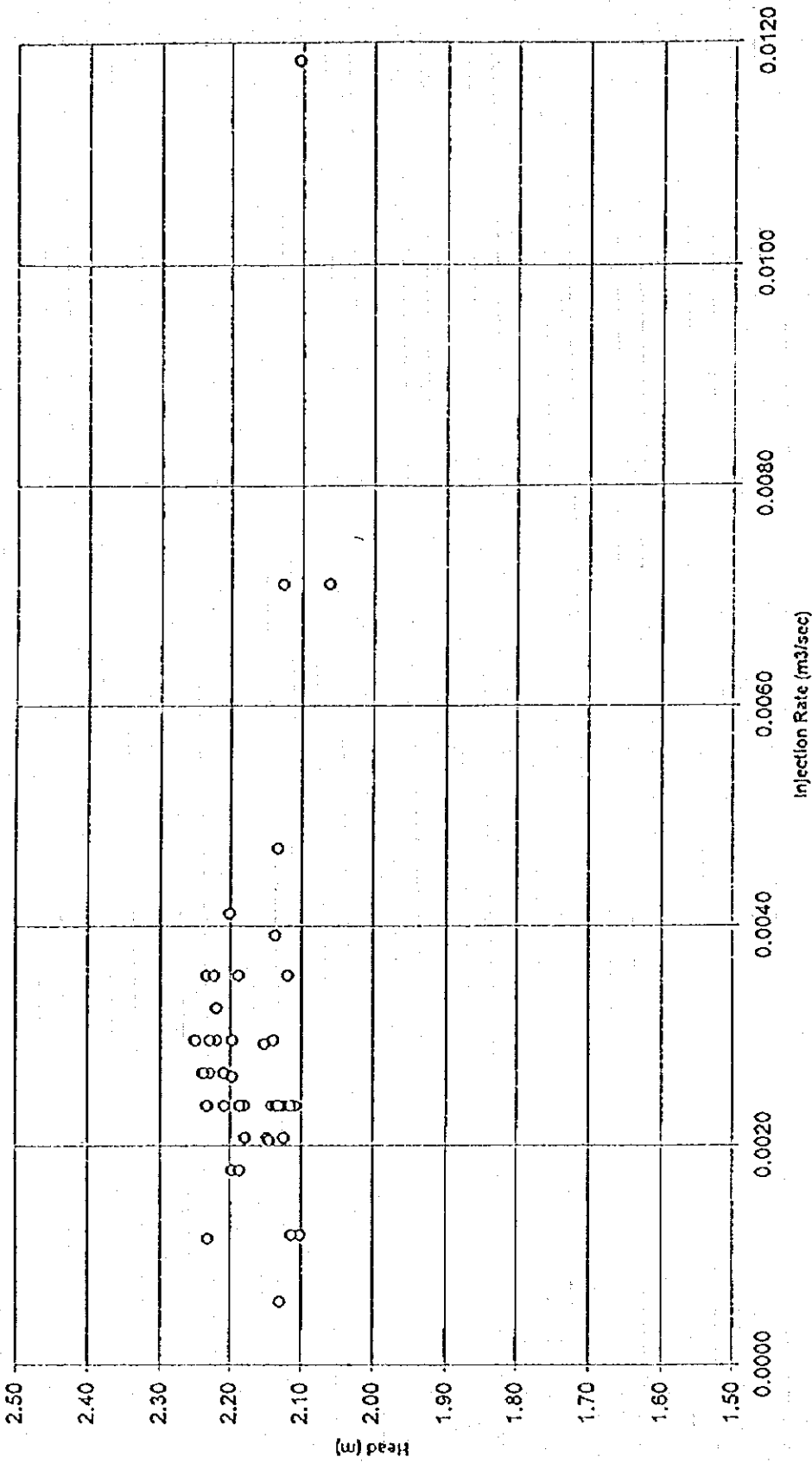
SWISSBORING

A. de Jong

Infiltration Test DW2-3 (6m Pit)
Head Changes in Pit v. Time



Infiltration Test DW2-3 (6 m Pit)
 Head of Water in Pit v. Injection Rate

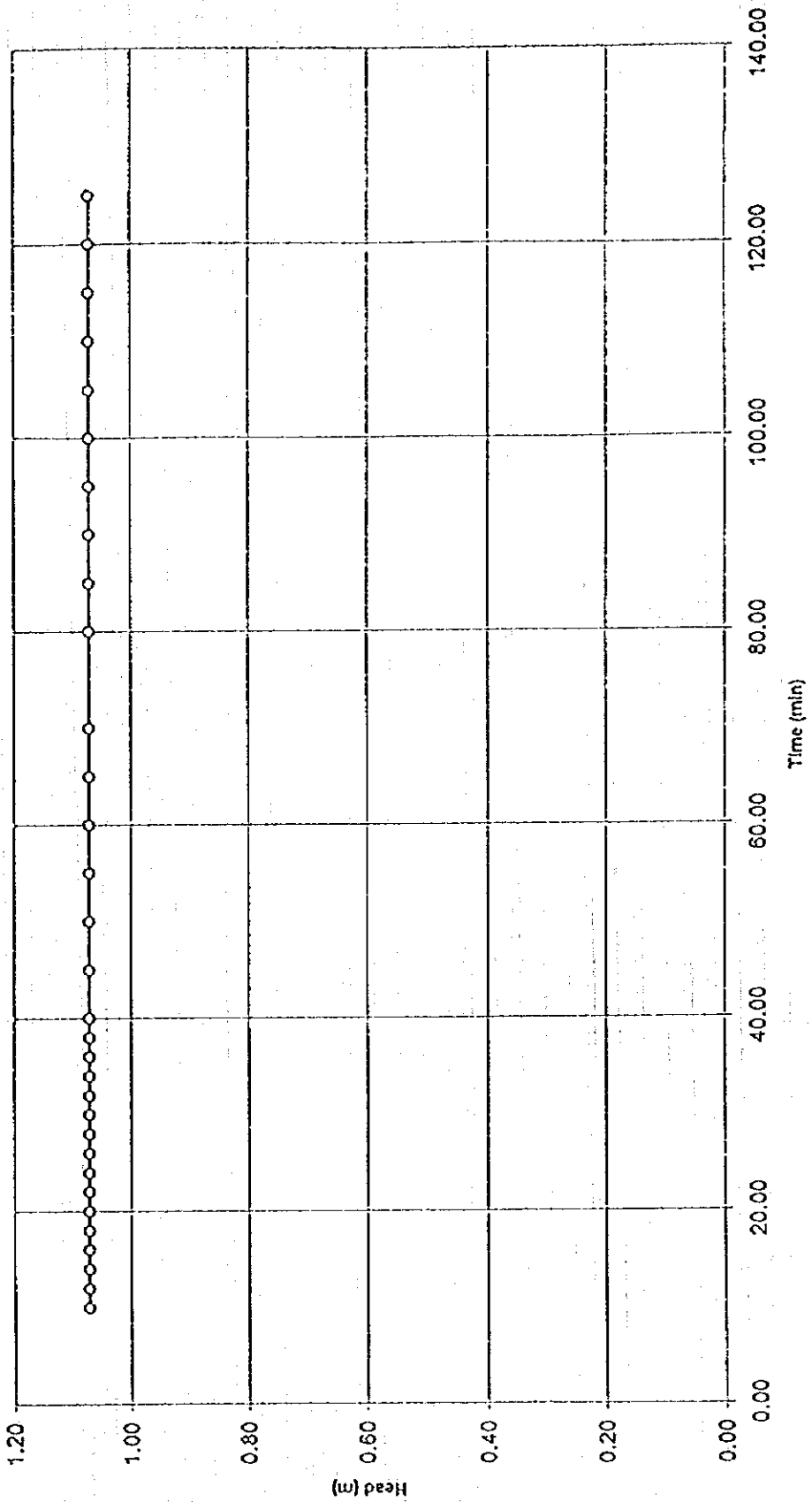


D:\DW23.XLS
 05/02/00
 15:08

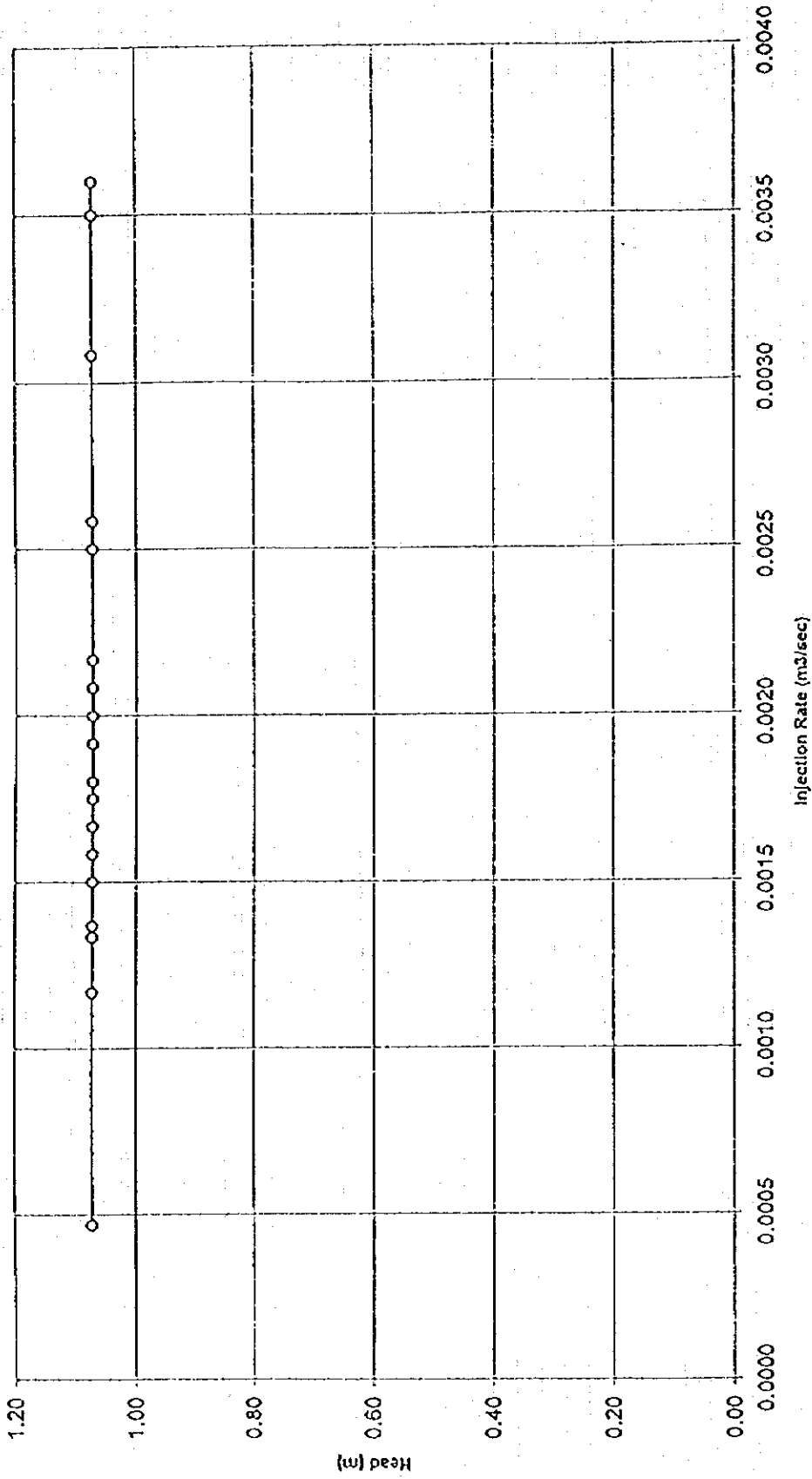
SWISSBORING

A. de Jong

Infiltration Test DW3-1 (1.5m Pit)
 Head Changes in Pit v. Time



Infiltration Test DW3-1 (1.5 m Pit)
 Head of Water in Pit v. Injection Rate

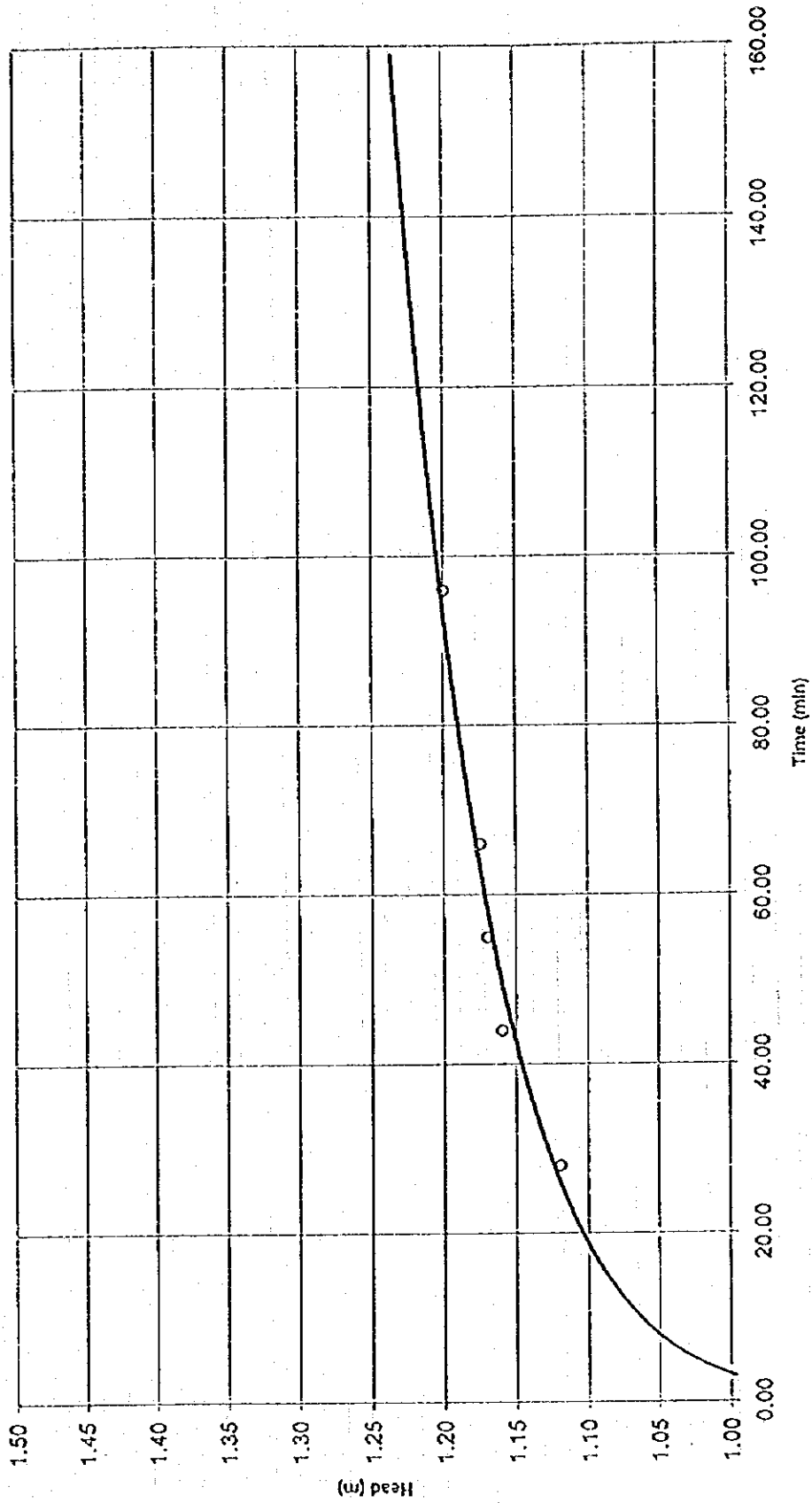


D:\DW3-1.XLS
 05/02/08
 13:10

SWISSBORING

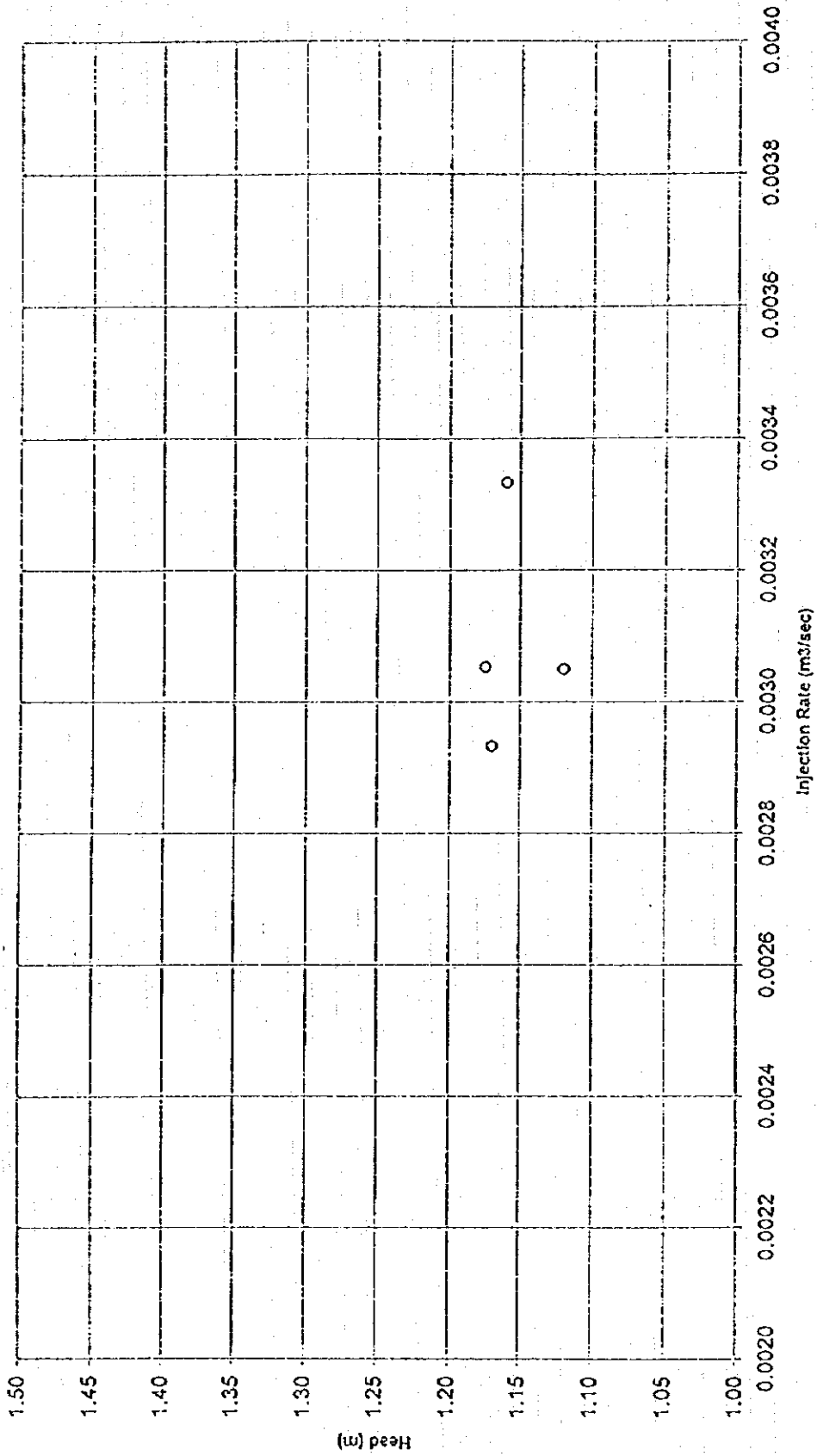
A. de Jong

Infiltration Test DW3-2A (3m Pit) : TEST 1
 Head Changes in Pit v. Time



Ap3-315

Infiltration Test DW3-2A (3 m Pit) : TEST 1
 Head of Water in Pit v. Injection Rate

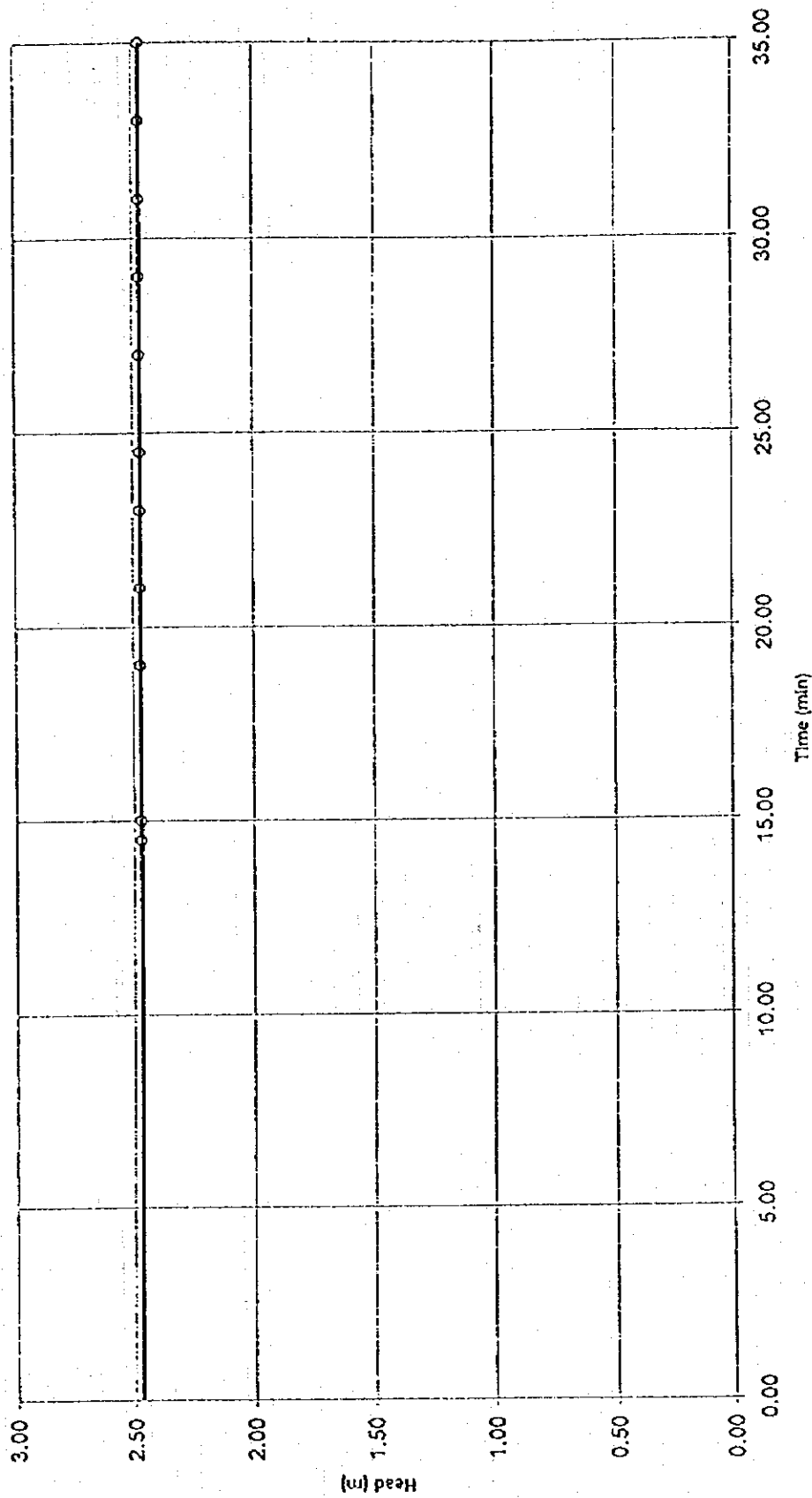


DNDW02A.XLS
 04/02/96
 11:28

SWISSBORING

A. de Jony

Infiltration Test DW3-2B (3m Pit) : TEST 2
Head Changes in Pit v. Time

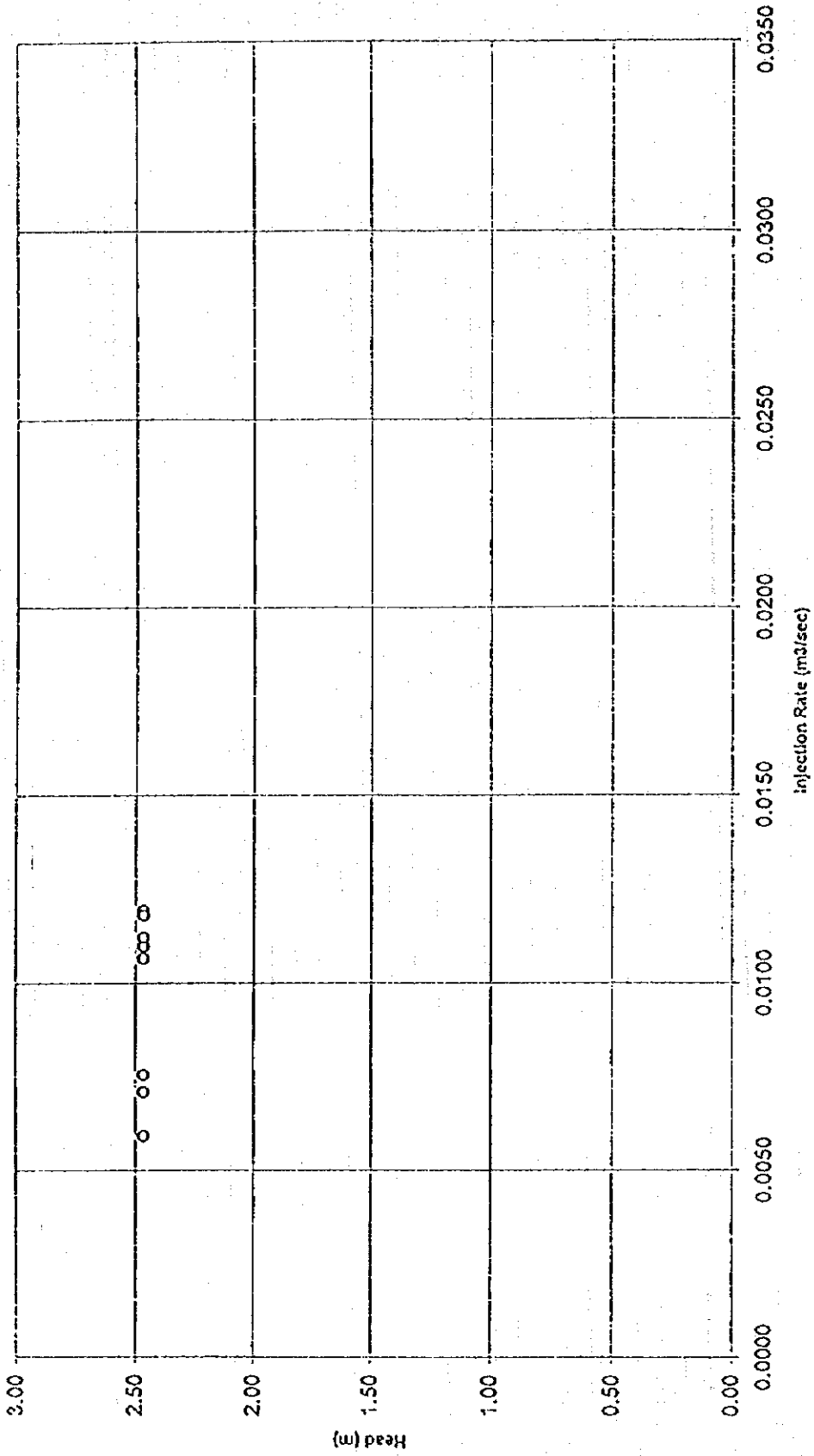


D:\DW32B.XLS
05/02/06
15:29

SWISSBORING

A. de Jong

Infiltration Test DW3-2B (3 m Pit) : TEST 2
 Head of Water in Pit v. Injection Rate

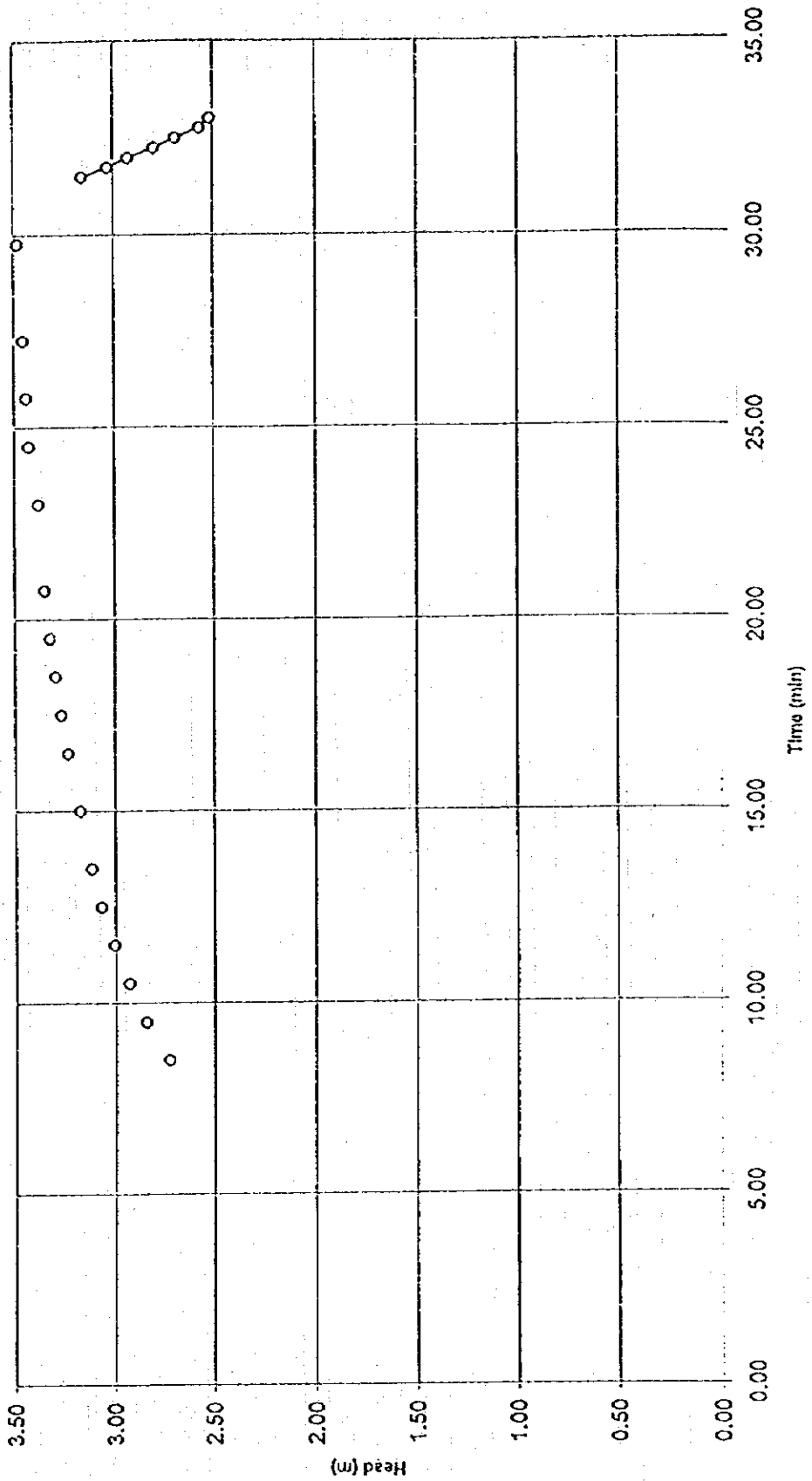


D:\DW\DW20.XLS
 05-02-96
 15:31

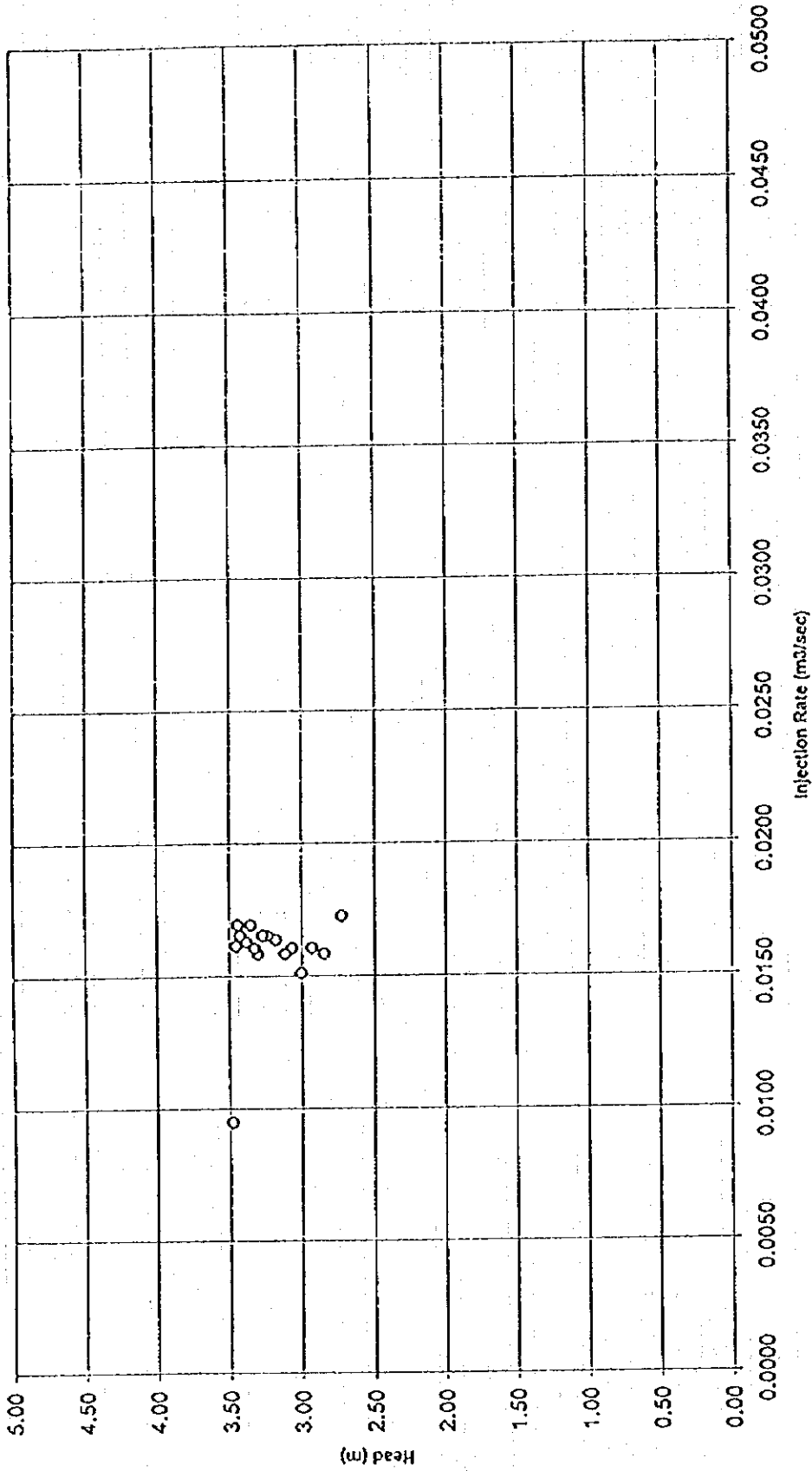
SWISSBORING

A. de Jong

Infiltration Test DW3-3 (6m Pit)
Head Changes in Pit v. Time



Infiltration Test DW3-3 (6 m Pit)
 Head of Water in Pit v. Injection Rate



D:\DW3\3\LS
 06/02/98
 22:47

SWISSBORING

A. de Jong

3.5. Groundwater Survey

Sheet1

3.5.1. Result of Existing Well Survey in May - June 1995 and January 1996

Well No. / Sample No.	Date of Sampling	Location of Sampling or Owner	UTM(UAS)	UTM(UAE)	Type of Aquifer	Total Depth (m)	Elevation (m)	WL (GL-m)	EC at Sampling (µS/m)	pH at Sampling	Tem. at Sampling (°C)	Remarks
950509-0	9-May-95	Wadi al Dhaid	390946	2792540	M	-	135	-	-	-	-	-
950509-1	9-May-95	Sheikh Amar bin Sultan Al Qassemi	399984	2791651	M	72	132	2350	7.8	8.0	33.2	P
950509-2	9-May-95	Matr Sultan Al Babri	391318	2790084	D	150-240	139	-	2430	8.0	34.2	P
950509-3	9-May-95	Sheikh Abdullah Rahman Marguain	392061	2788387	M	-	146	1510	8.0	8.0	35.0	P
950509-4	9-May-95	Local Farm (not cultivates)	391708	2787222	M	-	149	2270	8.0	8.0	37.7	P
950509-5	9-May-95	Ahmad said al Nadiba	394056	2795785	D	150	120	1880	8.1	8.1	32.1	P
950509-6	9-May-95	Selim Talir	391709	2785886	M	90	153	4170	7.9	7.9	33.1	P
950509-7	9-May-95	Wadi Shouka (surface water)	405024	2775914	S	-	470	7750	7.9	7.9	29.9	S
950509-8	9-May-95	Wadi Shouka (shallow well) (R/S)	409002	2776202	S	5	320	7770	7.7	7.7	28.2	T
950509-9	9-May-95	Wadi Shouka (shallow well) (R/S)	400764	2775363	S	5	276	1175	8.1	8.1	31.4	P
950509-10	9-May-95	Amir Musabah	400219	2775691	S	9	270	980	8.38	8.38	28.9	P
950510-1	10-May-95	Quarry Site	398272	2777092	M	-	247	18.9	579	8.3	30.8	T
950510-2	10-May-95	Khalifa Qusebi	395007	2774593	S	7	204	5	1724	8.3	29.7	T
950510-3	10-May-95	Hamed Mohammed Rashid	394841	2774933	M	-	198	23	4160	11.2	32.0	T
950510-3	10-May-95		394841	2774933	M	-	23	4740	11.1	34.1	W	
950510-4	10-May-95	Village Water Supply	391396	2767290	M	-	149	23	774	8.7	33.6	W
950510-5	10-May-95	Local Farm	391945	2765098	M	-	205	3130	7.6	7.6	30.4	T
950510-6	10-May-95	Mohammed Said Qutaiwe	390134	2765941	M	90	205	2120	7.6	7.6	32.3	P
950510-7	10-May-95	Mohammed bin Matr	388012	2765975	M	-	198	3410	7.8	7.8	33.3	P
950510-8	10-May-95	Village Water Supply (Road side)	382822	2766950	M	-	172	2830	7.8	7.8	32.9	W
950510-9	10-May-95	Obaid Sribu Al Khatib	382014	2765957	M	90	165	2600	7.6	7.6	43.1	P
950510-10	10-May-95	Local Farm	382092	2767665	M	-	166	3660	7.9	7.9	33.2	T
950515-1	15-May-95	Local Farm	379951	2768181	M	-	159	13.2	9870	7.9	31.2	T
950515-2	15-May-95	Hamed bin Bashir	381582	2768085	M	30-75	153	8470	7.2	7.2	34.0	P
950515-3	15-May-95	Rashid Obaid Hamad	385339	2776668	M	-	155	3750	7.7	7.7	31.2	P
950515-4	15-May-95	Village Water Supply	385137	2777020	M-D	-	154	4560	7.5	7.5	30.4	P
950515-5	15-May-95	Local Farm	386828	2775583	M	-	164	1093	8.2	8.2	28.6	T
950516-1	16-May-95	Quarry Site	394661	2766189	S-M	-	243	14.65	881	8.3	32.7	W
950516-2	16-May-95	Ali Ghandi bin Said	385790	2777055	M	-	159	4040	7.4	7.4	30.0	P
950516-3	16-May-95	Abdrahim Al Qweite	386640	2778679	M	-	166	3680	7.6	7.6	31.9	T
950516-4	16-May-95	Local Farm	387359	2776891	M	-	166	2630	7.7	7.7	33.0	P
950516-5	16-May-95	Sheik Zaid Farm	384775	2778729	M	30-90	-	1020	7.6	7.6	31.1	P
950516-6	16-May-95	Muhair Mohamed Al Qusumi	384850	2779720	M	48-75	-	8620	7.5	7.5	30.7	P
950516-7	16-May-95	Abdra Rahman	386114	2779455	M	-	30.05	4730	7.5	7.5	31.2	T
950516-8	16-May-95	Local Farm (New Farm)	385295	2781322	M	-	22.6	6270	7.3	7.3	31.6	W
950516-9	16-May-95	Local Farm	385375	2782130	M	-	164	3450	8.1	8.1	32.0	T
950516-10	16-May-95	Ali Salim Hasuni	386337	2782951	M	60	141	2570	7.6	7.6	32.6	P
950517-1	17-May-95	Said Seif Ali	385747	2783727	M-D	30-150	-	2180	7.3	7.3	31.4	P
950517-2	17-May-95	Said Seif Ali	385778	2783198	M	45	-	3570	8.1	8.1	33.8	P
950517-3	17-May-95	Seif Ali Said	384508	2783969	M	60-75	24	2050	7.5	7.5	33.0	P
950517-4	17-May-95	Rashid Sudan Al Qusumi	384414	2783909	M	75	-	3540	7.6	7.6	32.1	P
950517-5	17-May-95	Mahomed Attir	385345	2784384	M	90	22.5	1947	7.8	7.8	32.6	P
950517-6	17-May-95	Local Farm	391340	2780923	S-M	-	14.1	1070	8.0	8.0	34.9	P

WELL No. / Sample No.	Date of Sampling	Location of Sampling or Owner	UTM(UAE) UTM(UAE)	Type of Aquifer	Total Depth (m)	Elevation (m)	WL (GL-m)	EC at Sampling (µS/m)	pH at Sampling	Temp. at Sampling (°C)	Remarks
950517-7	17-May-95	Mahomad Rashid Khali	391037 2780484	S-W	90	1098	14.7	1098	7.6	35.4 P	
950517-8	17-May-95	Local Farm	400096 2780477	S-W		824		824	8.1	35.7 T	new farm development
950517-9	17-May-95	Jumma Al Seif	398257 2782100	S		3740	9.8	3740	8.5	34.2 T	poor yield
950517-10	17-May-95	Sultan Mahomed Hassam	395645 2782901	S-W	100	5190		5190	7.7	36.8 P	
950517-11	17-May-95	Mahomad Rashid Binahwar	394706 2782855	S-W		2220	7.2	2220	9.0	29.1 P	
950517-12	17-May-95	Rashid Binahwar Binahwar	395619 2782360	S-W	90	6740		6740	7.8	32.7 P	SPRINKLER IRRIGATION
950518-1	18-May-95	Abdra Musaba Sadimbati	400584 2783437	D	180	210		2550	8.1	34.1 P	
950518-2	18-May-95	Saud Abdra Musaba Salimbati	398650 2783437	M	90	1291		1291	7.8	33.8 P	
950518-3	18-May-95	Saud Ali Abdra	401839 2783920	S	7	1719	5	1719	7.8	31.2 P	
950518-4	18-May-95	Obeid Hamed Al Matwac	399187 2786224	S	5	4090	3	4090	7.8	30.3 W	shallow well in wadi but salty
950518-5	18-May-95	Al Seif	398368 2786072	D	150			2100	8.0	34.0 P	
950518-6	18-May-95	Ahamed Halfan	397351 2780109	M	90			8560 8.3	8.1	35.1 T	
950518-7	18-May-95	Local Farm	398550 2789946	M				2480	8.1	38.0 P	salt leaching
950518-8	18-May-95	Al Said	397217 2789994	M	60	5240		5240	8.2	34.7 T	
950518-9	18-May-95	Said Obeid Hamed	397518 2780529	M	90		63.8	3040	7.8	42.1 P	high T due to strage water in pipe
950518-10	18-May-95	Local Farm	398358 2781082	M		1625		1625	8.5	35.0 T	
950520-1	20-May-95	Mazat Al Woden	392743 2787436	M	90	1945		1945	8.3	41.4 P	sampled from supply pipe
950520-2	20-May-95	Local Farm	398311 2788811	M	60	1231		1231	8.2	34.6 P	
950520-3	20-May-95	Local Farm	392633 2790896	M		1651	146 73.65	1651	8.2	35.6 W	
950520-4	20-May-95	Mohamad Abdura Mahjan	392289 2791568	M	90	1697	142	1697	8.1	36.7 P	
950520-5	20-May-95	Local Water Supply	391094 2792603	M		1720	135 79.35	1720	8.1	24.6 W	
950520-6	20-May-95	M.F. Research Farm	392189 2791898	D	180-300	142		1260	8.2	34.6 P	sampled from supply pipe
950520-7	20-May-95	Mahomad Yusuf Abdura	392494 2795997	D	240-300	143		884	8.3	36.6 P	sampled from supply pipe
950520-8	20-May-95	Onhebroosan Ruta	393719 2795780	D	300	154		354	8.3	37.9 P	sampled from supply pipe
950520-9	20-May-95	Sultan Obeid	395160 2795217	D	210-300	188		620	8.1	35.9 P	
950520-10	20-May-95	Izu Afwaz Kahomed	395986 2794493	D	270	174		605	8.2	35.8 P	
950523-1	23-May-95	Mohamad Amin Abdura Awin	398315 2794333	D	300	181		576	8.5	36.6 P	
950523-2	23-May-95	Quarry Site	397210 2795304	D	300	194		604	8.8	33.9 P	
950524-1	24-May-95	Abdura Karim Abdura	398967 2796585	D	150	197		1219	8.2	34.7 P	
950524-2	24-May-95	Small Mosque	400338 2797096	D	202	202		804	8.3	35.4 P	
950524-3	24-May-95	Said Salem Mohamed	400963 2797254	D	150	215		3070	9.7	37.3 P	
950524-4	24-May-95	Salim Rashid Said	401627 2798148	D	90	220		208	8.5	35.8 T	
950524-5	24-May-95	Local Farm	401300 2797132	D		240		1269	8.5	33.0 T	
950524-6	24-May-95	Saud Farm	401956 2795945	D		249		1332	8.2	33.8 P	
950524-7	24-May-95	Musaba Said Ashir	402969 2795102	D	180	234		980	8.3	34.2 P	
950524-8	24-May-95	Abdura Farm	403760 2794221	M		233		1605	9.5	33.6 W	
950524-9	24-May-95	Local Farm	407154 2792706	S	5	290	2	1227	8.1	29.1 P	
950524-10	24-May-95	Mohamed Obeid Shaifar	400428 2795164	M	75	210	14.65	895	8.3	34.5 P	
950527-1	27-May-95	Bassan Soliman	384385 2784543	S	9	38		4810	8.3	32.5	
950527-2	27-May-95	Sheik Faisal bin Sultan	389970 2786990	M	24	147		4900	8.2	34.0	
950527-3	27-May-95	Local Farm	388684 2787923	M	18	139		2830	8.5	37.1	
950527-4	27-May-95	Obeid Salim	390658 2789104	M	15	145		3580	8.1	34.4	
950527-5	27-May-95	Abdullah bin Sayced Binoma	389655 2790637	D	120	135		1555	8.5	31.8	

WELL NO. / Sample No.	Date of Sampling	Location of Sampling or Owner	UTM(E)E	UTM(N)E	Type of Aquifer	Total Depth (m)	Elevation (m)	TL (GL-m)	EC at Sampling (µS/m)	pH	Temp at Sampling (°C)	Turbidity at Sampling (WT/S)	Remarks
950527-6	27-May-95	Mohamed Ysha	389855	279837	D	80-130	137	-	3250	8.1	34.1	-	Sample from Pumping
950527-7	27-May-95	Sultan Gubeishi	389832	279677	D	150	136	-	5180	8.2	35.4	-	Sample from Pumping
950527-8	27-May-95	Local Farm	386549	279643	D	-	126	-	3570	8.5	35.5	-	Sample from Pumping
950527-9	27-May-95	Local Farm	385846	279427	-	-	-	-	3550	8.0	34.2	-	Sample from Pumping
950527-10	27-May-95	Mohamed Sayed	385937	279575	M	30	118	-	2870	8.1	33.6	-	Sample from Pumping
950528-1	28-May-95	Khailba Salim Malekha	388539	279415	M	-	57.6	-	3210	8.5	33.3	T	Sample from Pumping
950528-2	28-May-95	Mohamed Obaid Shamsi	388115	279528	M-D	60-335	-	-	3270	8.3	33.0	P	Sample from Pumping
950528-3	28-May-95	Local Farm	387817	279530	M	-	81.45	-	3570	8.4	36.0	P	Sample from Pumping
950528-4	28-May-95	Local Farm	386598	279872	S	7	18.85	-	2790	8.2	27.6	W	Sample from Pumping
950528-5	28-May-95	Mohamed Amin	388158	279727	M-D	180	39.15	-	1269	8.3	39.9	P	Sample from Pumping
950528-6	28-May-95	Local Farm	389737	279748	M-D	-	-	-	2270	8.3	34.1	P	Sample from Pumping
950528-7	28-May-95	Sheik Zaid	391323	279832	D	360	117.65	-	1033	8.7	43.6	P	Sample from Pumping
950528-8	28-May-95	Abdullah Khalifa	391864	279870	D	235	-	-	1783	8.3	33.3	P	Sample from Pumping
950528-9	28-May-95	Hamadani Ibrahim	392154	279745	D	300	-	-	1603	8.5	45.5	T	Sample from Pumping
950528-10	28-May-95	Yasuna al Rashid	393294	279746	D	450	147	-	620	8.7	34.2	P	Sample from Pumping
950529-1	29-May-95	Essabu Habib	393637	279785	D-V	-	-	-	1632	8.4	37.0	P	Sample from Pumping
950529-2	29-May-95	Abdul Khadi Emori	394927	279702	D	330-330	-	-	1080	8.6	41.0	P	Sample from Pumping
950529-3	29-May-95	Local Farm	395709	279769	D	-	-	-	548	8.6	45.9	P	Sample from Pumping
950529-4	29-May-95	Local Farm	397464	279705	D	-	-	-	564	8.5	35.3	P	Sample from Pumping
950529-5	29-May-95	Abdullah Unith	398713	279709	D	390	57.5	-	2160	8.8	34.9	P	Sample from Pumping
950529-6	29-May-95	Salem Salih Ali	400104	279976	M	90	22.05	-	4530	11.6	37.4	P	Sample from Pumping
950529-7	29-May-95	Local Farm	399834	280052	S	10	7	-	3270	10.9	29.5	T	Sample from Pumping
950529-8	29-May-95	Alman Government	401189	280090	S	6	4	-	4890	9.1	34.2	P	Sample from Pumping
950529-9	29-May-95	Mohamed Ali	404379	279908	S	5	2	-	418	8.5	33.0	P	Sample from Pumping
950529-10	29-May-95	Said Sultan Ramani	401891	280068	S-M	105	-	-	1310	8.6	38.3	T	Sample from Pumping
950529-11	29-May-95	Local Farm	403257	280375	S-M	7	-	-	1124	9.0	31.5	T	Sample from Pumping
950530-1	30-May-95	Ahamed Salawadi Aden	398744	281038	D	150	-	-	6760	8.7	32.3	P	Sample from Pumping
950530-2	30-May-95	Sebu Musaba Salim	401431	281088	D	150	-	-	3100	8.7	33.0	P	Sample from Pumping
950530-3	30-May-95	Well in Wadi Red	403918	281211	S	-	12.03	-	1315	7.9	34.1	W	Sample from Pumping
950530-4	30-May-95	Abdullah Rashid	397458	280059	M-D	60-240	-	-	2930	7.9	37.3	P	Sample from Pumping
950530-5	30-May-95	Obaid Jumma	397232	280187	M-D	105-120	22.75	-	1225	8.3	34.8	P	Sample from Pumping
950530-6	30-May-95	Sheika Aliya Makutone	397031	280237	M-D	-	-	-	1893	8.2	35.4	P	Sample from Pumping
950530-7	30-May-95	Local Farm	396193	280390	-	-	20.65	-	2050	8.1	35.5	P	Sample from Pumping
950530-8	30-May-95	Salem	394403	280389	D	210	153	-	1705	8.2	34.2	P	Sample from Pumping
950530-9	30-May-95	Ibrahim Said	392957	2799547	D	300	144	-	961	8.8	36.2	P	Sample from Pumping
950530-10	30-May-95	Ahamed Ramadan Jumma	391691	2798014	D	510	-	-	1685	8.4	38.5	P	Sample from Pumping
950531-1	31-May-95	Rashid Obaid AbuAtrah	394413	2799970	M	210-360	-	-	1223	8.8	38.6	P	Sample from Pumping
950531-2	31-May-95	Abdullah Nabi Al Sharaif	393069	2797862	M	260-300	148	-	974	8.6	36.9	P	Sample from Pumping
950531-3	31-May-95	Sheik Zaid	392491	2799285	M	255	140	-	1318	8.6	37.0	P	Sample from Pumping
950531-4	31-May-95	Faid Mohamed Morsuli	391154	2800093	M	300-360	133	77.25	3310	8.7	39.5	P	Sample from Pumping
950531-5	31-May-95	Obaid Khalifa	387094	2798162	M	210-240	127	33.4	1910	8.2	36.1	P	Sample from Pumping
950531-6	31-May-95	Salim Sai	389615	2800366	M	125	125	-	4480	8.2	36.2	P	Sample from Pumping
950531-7	31-May-95	Local Farm	386751	2801742	M	-	112	28.65	1933	8.5	33.7	P	Sample from Pumping

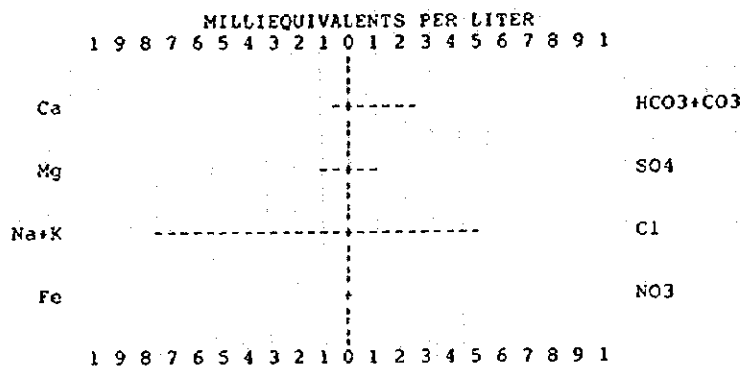
WELL NO. / Sample No.	Date of Sampling	Location of Sampling or Owner	UTM(UAE) X	UTM(UAE) Y	Type of Aquifer	Total Depth (m)	Elevation (m)	FL	EC at Sampling ($\mu\text{S/m}$)	pH	Temp at Sampling (°C)	Iron at Sampling (W/T/S)	Remarks
950601-8	31-May-95	Ali Hassan Kulaib	385020	2801976	M	75	109	-	4040	8.0	33.3	P	Sampling Water in Pipe
950601-9	31-May-95	Local Farm	385083	2803523	M	-	104	-	2630	8.1	33.2	P	Sampling Water in Pipe
950601-10	31-May-95	Local Farm	386808	2808555	M	-	105	-	1725	7.9	35.8	P	Sample from Pumping
950601-1	1-Jun-95	Hamed bin Mubarak	387703	2806744	M	60	100	-	2430	7.9	32.0	P	Sampling Water in Pipe
950601-2	1-Jun-95	Binaljmi Salem	386421	2805278	M	-	102	22.5	5070	7.8	30.7	P	Sampling Water in Pipe
950601-2A	1-Jun-95	Binaljmi Salem	386421	2805278	M	-	102	22.5	1239	7.7	32.6	P	Sampling Water in Pipe
950601-3	1-Jun-95	Mohamed Hamis	386180	2805656	M	-	100	-	6920	6.2	35.9	P	Sampling from Pumping
950601-4	1-Jun-95	Sheik Rashid	384744	2805287	M	-	98	-	3000	8.2	34.2	T	
950601-5	1-Jun-95	Abul Salem	383524	2805246	M	45-90	85	-	4100	7.9	33.7	P	Sampling from Pumping
950601-6	1-Jun-95	Hamed bin Obeid	383402	2807560	M	90	83	-	5910	7.9	34.3	P	Sampling from Pumping
950601-7	1-Jun-95	Water supply, Faraj Al moallah	381854	2808589	S-M	24	69	-	3040	8.1	35.4	P	Sampling from Pumping
950601-8	1-Jun-95	Salim Mala	380885	2808315	S-M	-	75	-	3660	8.0	32.8	T	
950601-9	1-Jun-95	Water supply, Bayatah	378803	2810544	M	-	58	-	3550	8.3	32.5	T	
950601-10	1-Jun-95	Salem Zabda	383711	2804123	S-M	90	82	-	3970	7.9	31.0	P	Sampling Water in Pipe
950601-11	1-Jun-95	Local Farm	381393	2803346	D	-	84	-	3160	8.5	35.0	T	
950601-12	1-Jun-95	Edaret Rufasu	381389	2802423	D	45-300	91	-	2180	8.1	35.9	P	Sampling Water in Pipe
950601-13	1-Jun-95	Abeid Chichin	384426	2803078	M	90-150	95	-	3540	8.2	34.1	P	Sampling Water in Pipe
950601-14	1-Jun-95	Local Farm	384235	2799082	M	-	120	-	2210	9.0	32.3	T	
950601-15	1-Jun-95	Local Farm	386000	2798809	S	-	115	-	2710	8.2	35.5	P	Sampling Water in Pipe
950603-1	3-Jun-95	Said Salem	392283	2775395	M	-	183	-	889	8.1	32.7	P	Sampling from Pumping
950603-2	3-Jun-95	Seif Hamed	393320	2774035	M	-	194	-	852	8.3	31.5	T	
950603-3	3-Jun-95	Local Farm	379817	2765088	M	-	220	-	7670	7.9	36.7	P	Sampling Water in Pipe
950603-4	3-Jun-95	Halim Hamed	387274	2780409	D	60-180	149	24.5	2260	7.9	29.7	P	Sampling Water in Pipe
950603-5	3-Jun-95	Tamin Farm	390262	2778812	M	-	165	-	2070	8.3	36.1	T	
950603-6	3-Jun-95	Local Farm	387269	2781746	M	-	145	-	3370	7.7	31.5	P	Sampling from Pumping
950603-7	3-Jun-95	Kusaba Baret	399361	2788818	D	120	220	-	1620	7.7	36.6	P	Sampling Water in Pipe
950604-1	4-Jun-95	Sheik Abdulhah Aziz	379677	2798222	D	180-210	94	-	2020	8.2	31.6	P	Sampling from Pumping
950604-2	4-Jun-95	Water Supply (dug well)	381202	2785595	S	15	109	13.3	4410	8.2	28.8	W	
950604-3	4-Jun-95	Al Rashid Hamed	390600	2787026	M	60-210	143	-	4110	8.3	24.7	P	Sampling Water in Pipe
950604-4	4-Jun-95	Mohamed Ali	390882	2788983	D	150	157	23.2	3310	8.3	30.2	T	
950604-5	4-Jun-95	Abdulhah Ali Waden	388527	2791131	D	90-105	138	-	5046	8.0	32.4	P	Sampling from Pumping
950604-6	4-Jun-95	Sultan Shahal	390283	2791993	M	96-186	131	-	3450	8.3	35.0	P	Sampling Water in Pipe
950604-7	4-Jun-95	Local Farm	388479	2793191	M	-	125	-	2240	8.1	37.2	P	Sampling Water in Pipe
950604-8	4-Jun-95	Sheikh Mohamed Salem	390556	2795149	M	300	135	-	2790	9.8	34.8	T	
950604-9	4-Jun-95	Mohamed Said Al Moulia	389253	2795815	M	-	128	-	1624	8.2	39.0	P	Sampling Water in Pipe
950604-10	4-Jun-95	Sheikh Ahmed (Doha)	391906	2796040	D	285	136	-	1060	8.8	36.5	P	Sampling from Pumping
950604-11	4-Jun-95	Abdulhah Salil	390516	2797323	M	300	134	-	985	8.5	41.6	P	Sampling Water in Pipe
950604-12	4-Jun-95	Indi Ahamed	392812	2796687	D	180-300	144	-	1203	8.7	42.3	P	Sampling Water in Pipe
950604-13	4-Jun-95	Sheikh Rashid Hamed Al Qasumi	395399	2796451	D	-	175	-	701	8.8	32.7	T	
950604-14	4-Jun-95	Yusef Satwan	393822	2795098	D	300	155	-	1010	8.6	38.2	P	Sampling from Pumping
950604-15	4-Jun-95	Mohamed Said bin Matruaf	390475	2795801	D	450	183	-	2760	8.2	38.8	P	Sampling from Pumping
950604-16	4-Jun-95	Mohamed Hamis	380867	2795842	M	45	107	-	2340	8.3	31.9	P	Sampling Water in Pipe
960109-1	9-Jan-96	Salim Nahas	385821	2797336			107	21.89	4090				31.6

Well No. / Sample No.	Date of Sampling	Location of Sampling or Owner	UTM(UAE)	UTM(UAE)	Type of Aquifer	Total Depth (m)	Elevation (m)	WL (G-m)	EC at Sampling (#S/m)	pH at Sampling (pH)	Tem at Sampling (°C)	Tem at Sampling from (W/T/S)	Remarks
960109-2	9-Jan-96	Mohammed Ali Sager	383068	2791916	(S/D)	(m)	129	Over100	3950		31.1		
960109-3	9-Jan-96	Rashid Bin Mohammed	384132	2802214			129	20.41	7650		34.3		
960109-4	9-Jan-96	Hamid Khamis	386114	2805616			197	19.07	6490		31.4		
960109-5	9-Jan-96	Darwish Dager	386761	2801700			184	23.47	3470		32.4		
960109-6	9-Jan-96	Ali Salem	396091	2803970			169	12.17	2570		32.7		
960109-7	9-Jan-96	Sayed Salim	394628	2803881			153	32.67	4050		31.9		
960109-8	9-Jan-96	Bin Salem	386421	2805210			197	18.81	4610		31.1		
960109-9	9-Jan-96	Mohammed Mater	388161	2765920			198	17.6	4100		31.3		
960109-10	9-Jan-96	Obid Juma	391960	2765031			191	21.71	3150		31.4		
960109-11	9-Jan-96	Mohammed Saif	379801	2765930			161	14.07	2120		30.4		

3.5.2. Result of Chemical Analysis for 100 samples from the Existing Wells
May-June 1995

Project : dhaid
Organization : jica
Sample : 0509-2

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.00 Mg= 1.97 Na= 14.40 K= 1.02 Fe= 0.01
HCO3= 5.00 CO3= 0.00 SO4= 2.10 Cl= 10.41 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 20. Mg= 24. Na= 331. K= 40. Fe= 0.10
HCO3=305. CO3= 0. SO4= 101. Cl= 369. NO3= 0.00

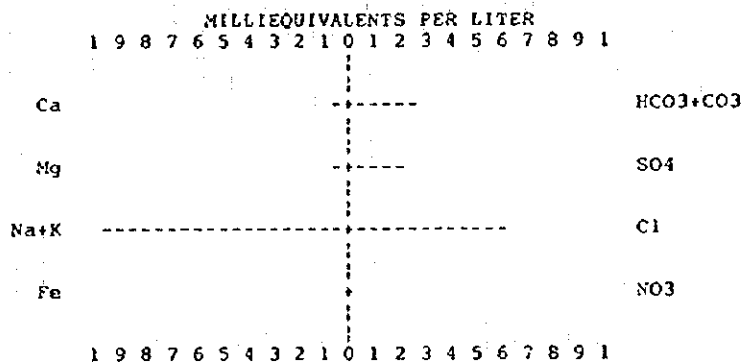
ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1126.

pH= 7.6

SODIUM ADSORPTION RATIO (SAR) = 11.81

Project : dhaid
Organization : jica
Sample : 0509-4

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.00 Mg= 1.07 Na= 18.92 K= 0.08 Fe= 0.01
HCO3= 5.00 CO3= 0.00 SO4= 4.06 Cl= 12.01 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 20. Mg= 13. Na= 435. K= 3. Fe= 0.10
HCO3=305. CO3= 0. SO4= 195. Cl= 426. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1402.

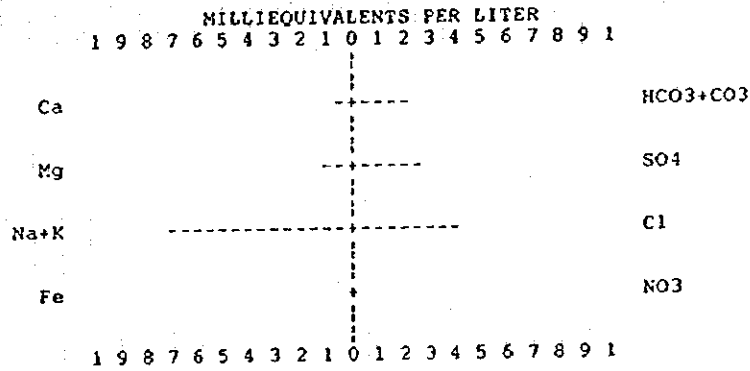
pH= 7.6

SODIUM ADSORPTION RATIO (SAR) = 18.61

Project : dhaid
Organization : jica

Sample : 0509-5

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.60 Mg= 1.81 Na= 14.31 K= 0.05 Fe= 0.01
HCO₃= 4.00 CO₃= 0.00 SO₄= 5.16 Cl= 7.61 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 12. Mg= 22. Na= 329. K= 2. Fe= 0.10
HCO₃=244. CO₃= 0. SO₄= 248. Cl= 270. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1120.

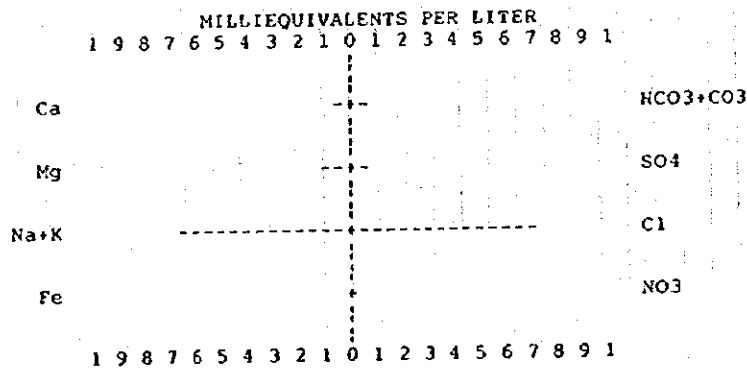
pH= 7.8

SODIUM ADSORPTION RATIO (SAR) = 13.04

Project : dhaid
Organization : jica

Sample : 0509-6

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.79 Mg= 4.11 Na= 32.67 K= 0.15 Fe= 0.01
HCO₃= 1.61 CO₃= 0.00 SO₄= 2.23 Cl= 36.04 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 56. Mg= 50. Na= 751. K= 6. Fe= 0.10
HCO₃= 98. CO₃= 0. SO₄= 107. Cl= 1278. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2554.

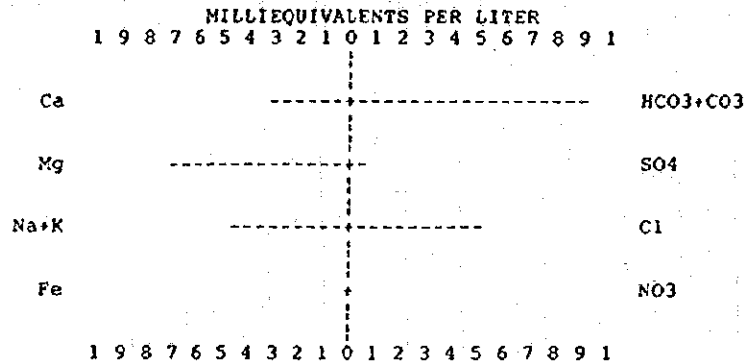
pH= 7.4

SODIUM ADSORPTION RATIO (SAR) = 17.58

Project : dhald
Organization : jica

Sample : 0509-8

TOTAL SCALE = 5 MILLIEQUIVALENTS PER LITER EACH DASH = 0.25



WATER TYPE ---- MAGNESIUM BICARBONATE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.40 Mg= 3.54 Na= 2.22 K= 0.08 Fe= 0.01
HCO3= 4.51 CO3= 0.00 SO4= 0.27 Cl= 2.51 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 28. Mg= 43. Na= 51. K= 3. Fe= 0.15
HCO3=275. CO3= 0. SO4= 13. Cl= 89. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 468.

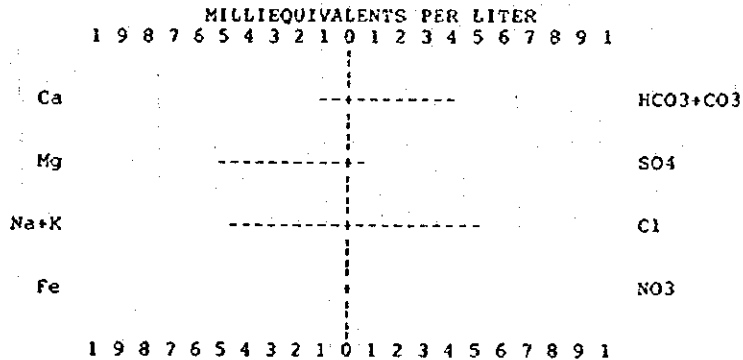
pH= 7.3

SODIUM ADSORPTION RATIO (SAR) = 1.41

Project : dhald
Organization : jica

Sample : 0509-10

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



WATER TYPE ---- MAGNESIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.20 Mg= 5.02 Na= 4.18 K= 0.10 Fe= 0.01
HCO3= 4.00 CO3= 0.00 SO4= 0.71 Cl= 5.02 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 24. Mg= 61. Na= 95. K= 4. Fe= 0.10
HCO3=244. CO3= 0. SO4= 34. Cl= 178. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 622.

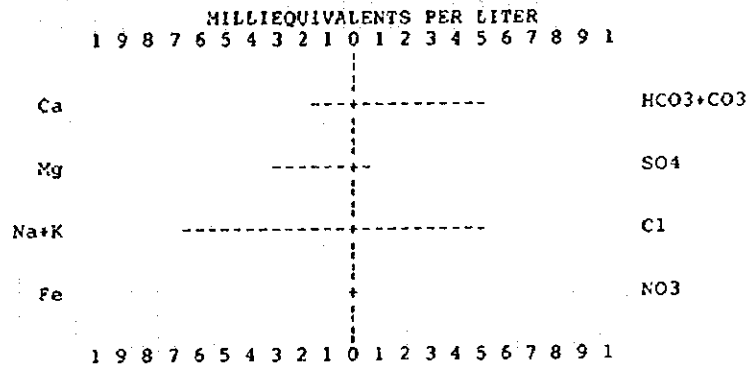
pH= 7.8

SODIUM ADSORPTION RATIO (SAR) = 2.37

Project : dhaid
Organization : jica

Sample : 0510-1

TOTAL SCALE = 5 MILLIEQUIVALENTS PER LITER EACH DASH = 0.25



WATER TYPE ---- SODIUM BICARBONATE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.80 Mg= 1.40 Na= 3.13 K= 0.03 Fe= 0.01
HCO3= 2.61 CO3= 0.00 SO4= 0.19 Cl= 2.59 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 16. Mg= 17. Na= 72. K= 1. Fe= 0.10
HCO3=159. CO3= 0. SO4= 9. Cl= 92. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 358.

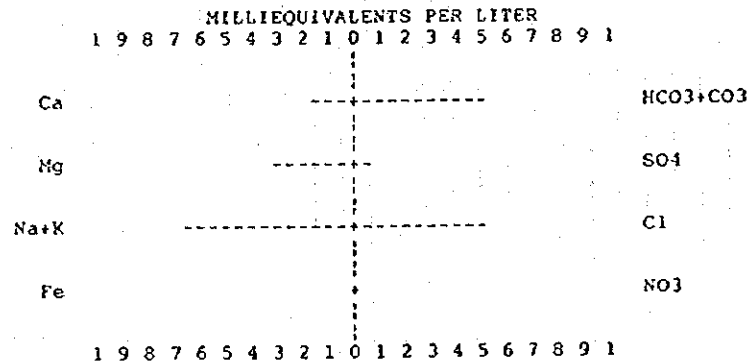
pH= 7.8

SODIUM ADSORPTION RATIO (SAR) = 2.99

Project : dhaid
Organization : jica

Sample : 0510-1

TOTAL SCALE = 5 MILLIEQUIVALENTS PER LITER EACH DASH = 0.25



WATER TYPE ---- SODIUM BICARBONATE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.80 Mg= 1.40 Na= 3.13 K= 0.03 Fe= 0.01
HCO3= 2.61 CO3= 0.00 SO4= 0.19 Cl= 2.59 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 16. Mg= 17. Na= 72. K= 1. Fe= 0.10
HCO3=159. CO3= 0. SO4= 9. Cl= 92. NO3= 0.00

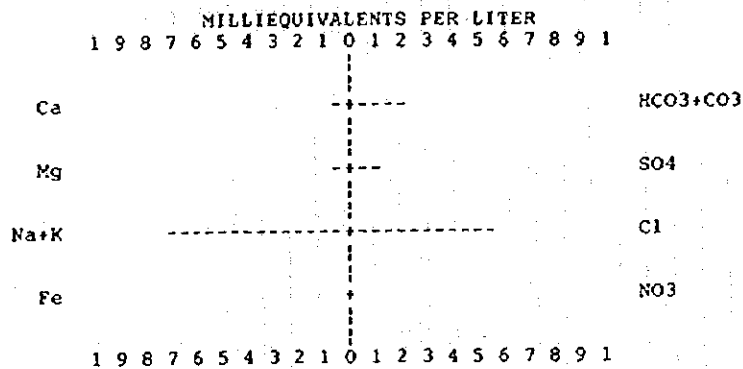
ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 358.

pH= 7.8

SODIUM ADSORPTION RATIO (SAR) = 2.99

Project : dhaid
 Organization : jica
 Sample : 0510-2

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER
 Ca= 1.40 Mg= 1.15 Na= 14.09 K= 0.03 Fe= 0.01
 HCO3= 4.00 CO3= 0.00 SO4= 2.14 Cl= 10.60 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER
 Ca= 28. Mg= 14. Na= 324. K= 1. Fe= 0.15
 HCO3=244. CO3= 0. SO4= 103. Cl= 376. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1062.
 pH= 7.6
 SODIUM ADSORPTION RATIO (SAR) = 12.49

Project : dhaid
 Organization : jica
 Sample No 9 : 0510-3

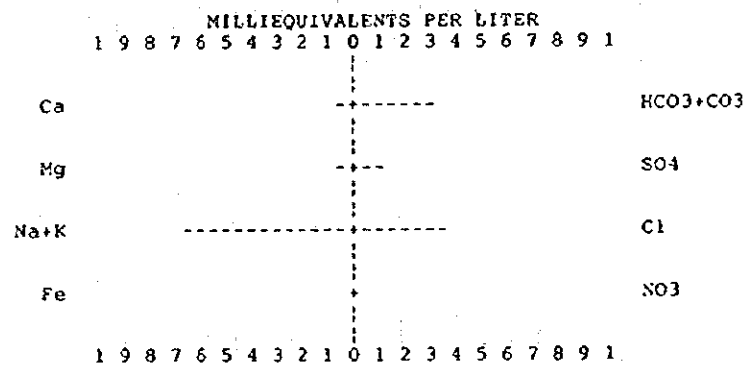
--- Analysis incomplete ---

Sulphate missing or zero.

Project : dhaid
 Organization : jica

Sample : 0510-4

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER
 Ca= 0.60 Mg= 0.58 Na= 6.44 K= 0.10 Fe= 0.01
 HCO3= 3.20 CO3= 0.00 SO4= 1.25 Cl= 3.41 NO3= 0.00

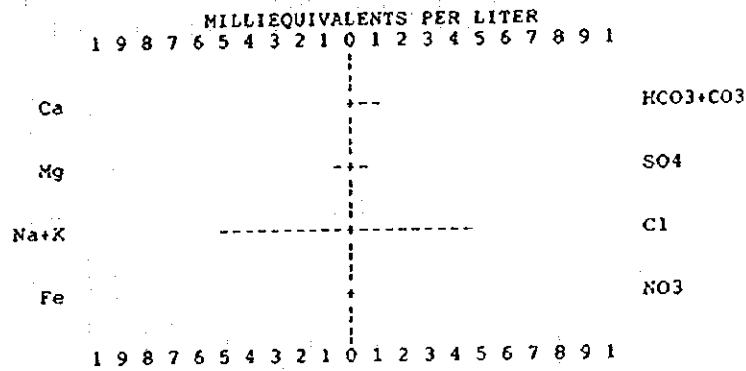
CONSTITUENTS IN MILLIGRAMS PER LITER
 Ca= 12. Mg= 7. Na= 148. K= 4. Fe= 0.10
 HCO3=195. CO3= 0. SO4= 60. Cl= 121. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 532.
 pH= 8.0
 SODIUM ADSORPTION RATIO (SAR) = 8.40

Project : dhaid
Organization : jica

Sample : 0510-5

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.20 Mg= 2.96 Na= 25.01 K= 0.08 Fe= 0.01
HCO₃= 5.39 CO₃= 0.00 SO₄= 3.69 Cl= 22.02 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 24. Mg= 36. Na= 575. K= 3. Fe= 0.10
HCO₃=329. CO₃= 0. SO₄= 177. Cl= 781. NO₃= 0.00

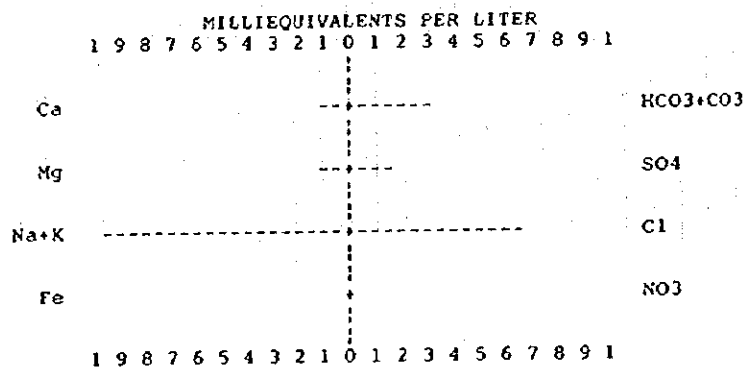
ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1984.
pH= 7.4

SODIUM ADSORPTION RATIO (SAR) = 17.35

Project : dhaid
Organization : jica

Sample : 0510-6

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.00 Mg= 1.56 Na= 18.79 K= 0.23 Fe= 0.01
HCO₃= 5.80 CO₃= 0.00 SO₄= 3.44 Cl= 13.42 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

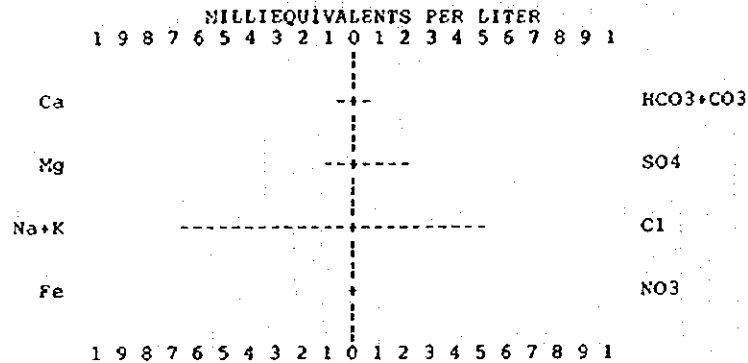
Ca= 40. Mg= 19. Na= 432. K= 9. Fe= 0.10
HCO₃=354. CO₃= 0. SO₄= 165. Cl= 476. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1491.
pH= 7.4

SODIUM ADSORPTION RATIO (SAR) = 14.09

Project : dhaid
 Organization : jica
 Sample : 0510-7

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER
 Ca= 1.40 Mg= 5.76 Na= 32.62 K= 0.20 Fe= 0.01
 HCO3= 3.61 CO3= 0.00 S04= 10.81 Cl= 25.63 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER
 Ca= 28. Mg= 70. Na= 750. K= 8. Fe= 0.20
 HCO3=220. CO3= 0. S04= 519. Cl= 909. NO3= 0.00

pH= 7.5
 SODIUM ADSORPTION RATIO (SAR) = 17.25

Project : dhaid
 Organization : jica
 Sample : 0510-9

***** CATIONS AND ANIONS DO NOT BALANCE *****

Sum of cations = 26.70 EPM
 Sum of anions = 21.34 EPM
 Error = 22.35 %
 Error is defined as twice the difference
 divided by sum of cations and anions.

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER
 Ca= 1.60 Mg= 5.35 Na= 19.53 K= 0.23 Fe= 0.01
 HCO3= 0.61 CO3= 0.00 S04= 9.62 Cl= 11.11 NO3= 0.00

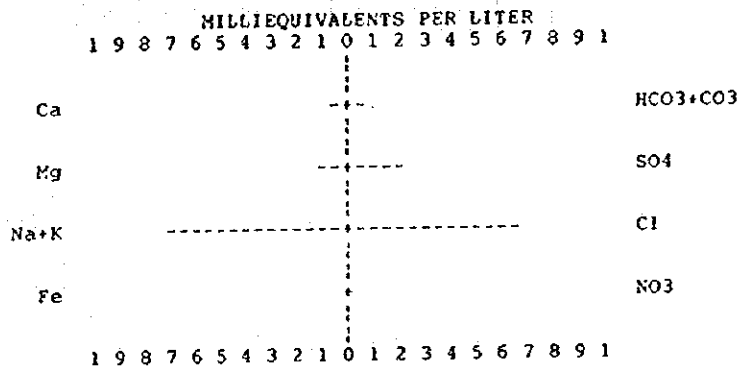
CONSTITUENTS IN MILLIGRAMS PER LITER
 Ca= 32. Mg= 65. Na= 449. K= 9. Fe= 0.15
 HCO3= 37. CO3= 0. S04= 462. Cl= 394. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICRONHOS/CM AT 25 C 1708.
 pH= 7.4
 SODIUM ADSORPTION RATIO (SAR) = 10.48

Project : dhaid
Organization : jica

Sample : 0515-2

TOTAL SCALE = 100 MILLIEQUIVALENTS PER LITER EACH DASH = 5.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 6.49 Mg= 11.27 Na= 70.25 K= 0.31 Fe= 0.02
HCO3= 3.39 CO3= 0.00 SO4= 22.49 Cl= 62.58 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca=130. Mg=137. Na= 1615. K= 12. Fe= 0.35
HCO3=207. CO3= 0. SO4= 1080. Cl= 2219. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 5658.

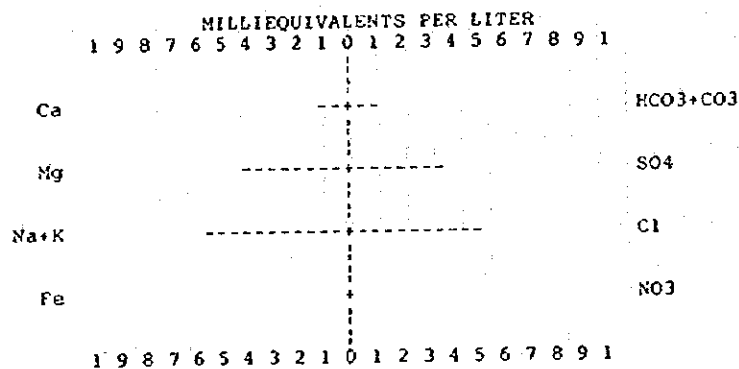
pH= 6.9

SODIUM ADSORPTION RATIO (SAR) = 23.58

Project : dhaid
Organization : jica

Sample : 0515-4

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 3.99 Mg= 18.75 Na= 26.62 K= 0.26 Fe= 0.01
HCO3= 5.39 CO3= 0.00 SO4= 16.45 Cl= 25.04 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

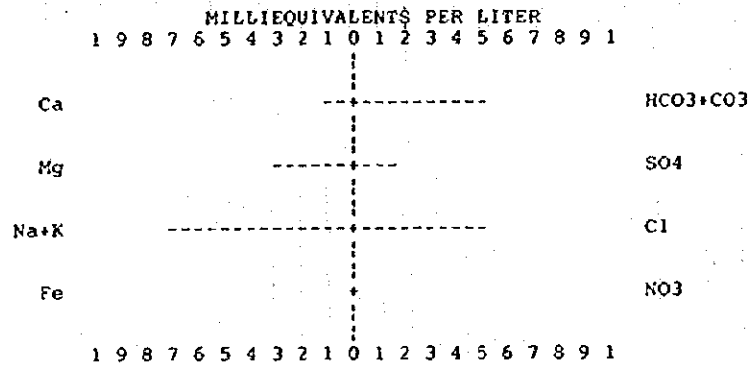
Ca= 80. Mg=228. Na= 612. K= 10. Fe= 0.25
HCO3=329. CO3= 0. SO4= 790. Cl= 888. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2861.

Project : dhaid
Organization : jica

Sample : 0515-5

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.20 Mg= 3.13 Na= 7.00 K= 0.10 Fe= 0.01
HCO3= 5.00 CO3= 0.00 SO4= 1.50 Cl= 5.02 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 24. Mg= 38. Na= 161. K= 4. Fe= 0.10
HCO3=305. CO3= 0. SO4= 72. Cl= 178. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 736.

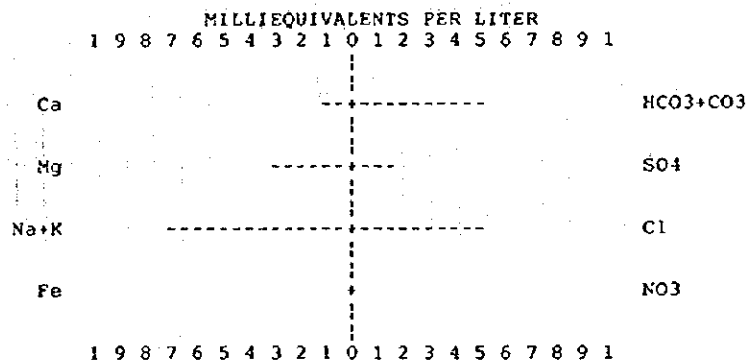
pH= 7.7

SODIUM ADSORPTION RATIO (SAR) = 4.76

Project : dhaid
Organization : jica

Sample : 0515-5

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.20 Mg= 3.13 Na= 7.00 K= 0.10 Fe= 0.01
HCO3= 5.00 CO3= 0.00 SO4= 1.50 Cl= 5.02 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 24. Mg= 38. Na= 161. K= 4. Fe= 0.10
HCO3=305. CO3= 0. SO4= 72. Cl= 178. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 736.

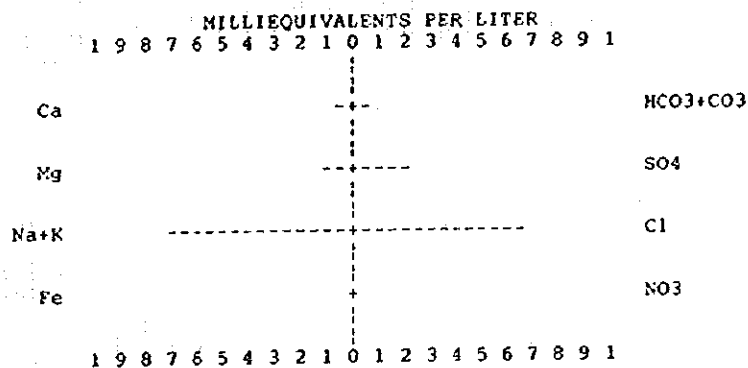
pH= 7.7

SODIUM ADSORPTION RATIO (SAR) = 4.76

Project : dhaid
Organization : jica

Sample : 0515-2

TOTAL SCALE = 100 MILLIEQUIVALENTS PER LITER EACH DASH = 5.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 6.49 Mg= 11.27 Na= 70.25 K= 0.31 Fe= 0.02
HCO3= 3.39 CO3= 0.00 SO4= 22.49 Cl= 62.58 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca=130. Mg=137. Na= 1615. K= 12. Fe= 0.35
HCO3=207. CO3= 0. SO4= 1080. Cl= 2219. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 5658.

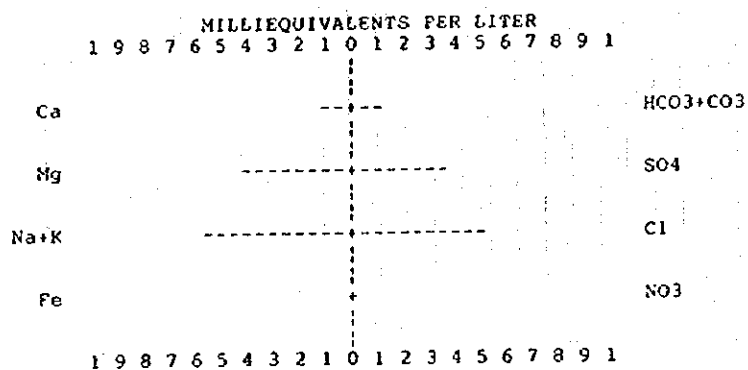
pH= 6.9

SODIUM ADSORPTION RATIO (SAR) = 23.58

Project : dhaid
Organization : jica

Sample : 0515-4

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 3.99 Mg= 18.75 Na= 26.62 K= 0.26 Fe= 0.01
HCO3= 5.39 CO3= 0.00 SO4= 16.45 Cl= 25.04 NO3= 0.00

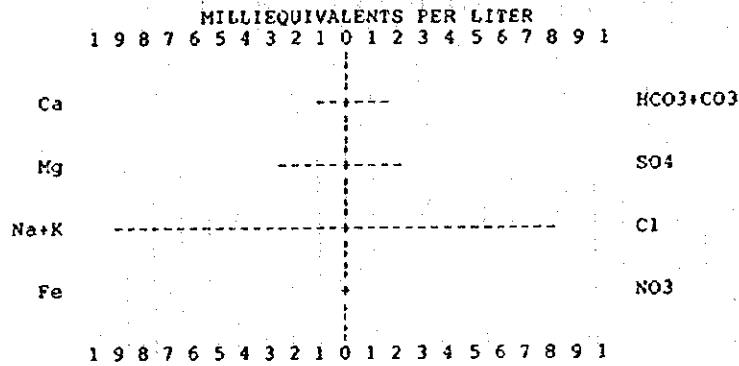
CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 80. Mg=228. Na= 612. K= 10. Fe= 0.25
HCO3=329. CO3= 0. SO4= 790. Cl= 888. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2861.

Project : dhaid
 Organization : jica
 Sample : 0516-4

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.00 Mg= 4.52 Na= 18.01 K= 0.10 Fe= 0.01
 HCO3= 3.03 CO3= 0.00 SO4= 4.23 Cl= 16.02 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 40. Mg= 55. Na= 414. K= 4. Fe= 0.15
 HCO3=185. CO3= 0. SO4= 203. Cl= 568. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1581.

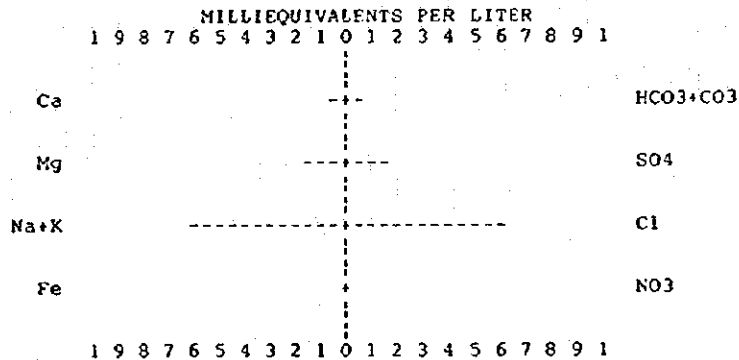
pH= 7.5

SODIUM ADSORPTION RATIO (SAR) = 9.97

Project : dhaid
 Organization : jica

Sample : 0516-5

TOTAL SCALE = 100 MILLIEQUIVALENTS PER LITER EACH DASH = 5.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 3.59 Mg= 16.20 Na= 59.03 K= 0.43 Fe= 0.02
 HCO3= 7.00 CO3= 0.00 SO4= 13.45 Cl= 59.05 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 72. Mg=197. Na= 1357. K= 17. Fe= 0.30
 HCO3=427. CO3= 0. SO4= 646. Cl= 2094. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 5139.

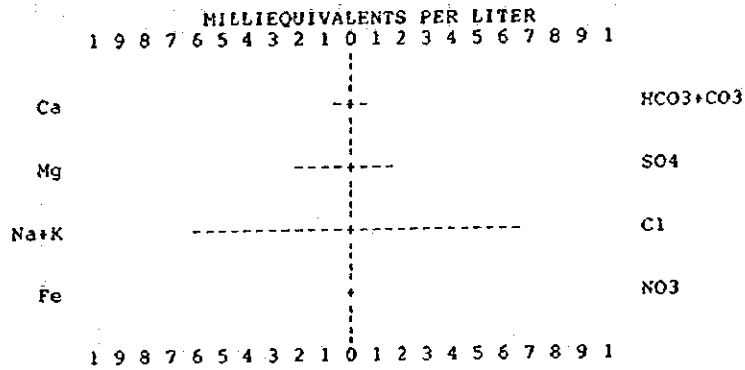
pH= 7.1

SODIUM ADSORPTION RATIO (SAR) = 18.76

Project : dhaid
Organization : jica

Sample : 0516-6

TOTAL SCALE = 100 MILLIEQUIVALENTS PER LITER EACH DASH = 5.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 5.99 Mg= 21.30 Na= 62.03 K= 0.41 Fe= 0.01
HCO₃= 7.39 CO₃= 0.00 SO₄= 15.61 Cl= 67.09 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca=120. Mg=259. Na= 1426. K= 16. Fe= 0.25
HCO₃=451. CO₃= 0. SO₄= 750. Cl= 2379. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 5869.

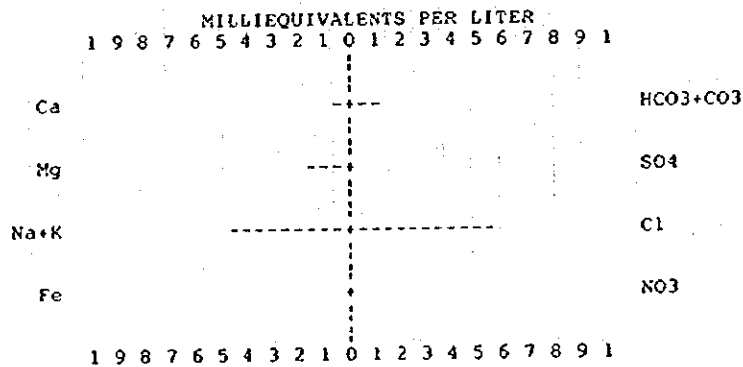
pH= 7.0

SODIUM ADSORPTION RATIO (SAR) = 16.79

Project : dhaid
Organization : jica

Sample : 0516-8

TOTAL SCALE = 100 MILLIEQUIVALENTS PER LITER EACH DASH = 5.00



WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.59 Mg= 17.19 Na= 47.02 K= 0.33 Fe= 0.01
HCO₃= 8.00 CO₃= 0.00 SO₄= 1.94 Cl= 57.47 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 52. Mg=209. Na= 1081. K= 13. Fe= 0.20
HCO₃=488. CO₃= 0. SO₄= 93. Cl= 2038. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 4320.

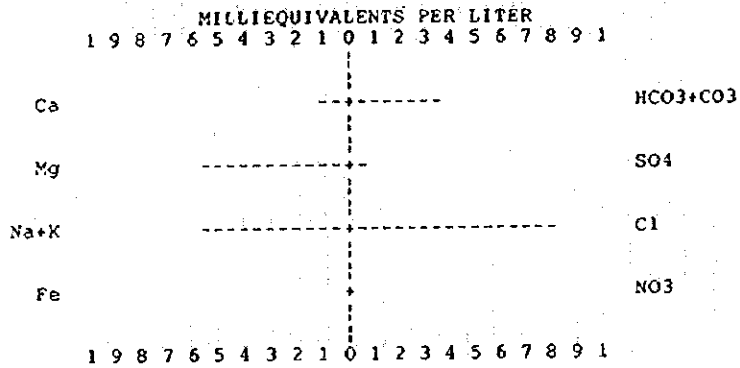
pH= 7.1

SODIUM ADSORPTION RATIO (SAR) = 14.95

Project : dhaid
Organization : jica

Sample : 0529-10

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 845. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.05 Mg= 5.59 Na= 5.44 K= 0.20 Fe= 0.00
HCO3= 3.72 CO3= 0.00 SO4= 0.60 Cl= 7.98 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 21. Mg= 68. Na= 125. K= 8. Fe= 0.04
HCO3=227. CO3= 0. SO4= 29. Cl= 283. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1320.

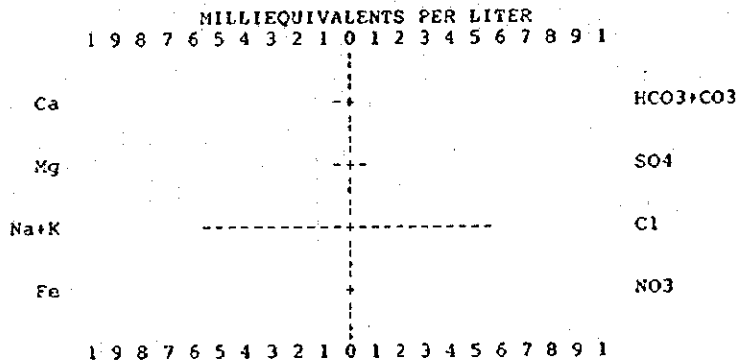
pH= 8.1

SODIUM ADSORPTION RATIO (SAR) = 2.98

Project : dhaid
Organization : jica

Sample : 0530-1

TOTAL SCALE = 100 MILLIEQUIVALENTS PER LITER EACH DASH = 5.00



TOTAL DISSOLVED SOLIDS 4467. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.79 Mg= 6.66 Na= 52.20 K= 0.36 Fe= 0.01
HCO3= 1.62 CO3= 0.00 SO4= 5.35 Cl= 54.99 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 56. Mg= 81. Na= 1200. K= 14. Fe= 0.20
HCO3= 99. CO3= 0. SO4= 257. Cl= 1950. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 6980.

pH= 8.3

SODIUM ADSORPTION RATIO (SAR) = 24.01

Project : dhaid
 Organization : jica
 Sample No. 24 : 0529-6

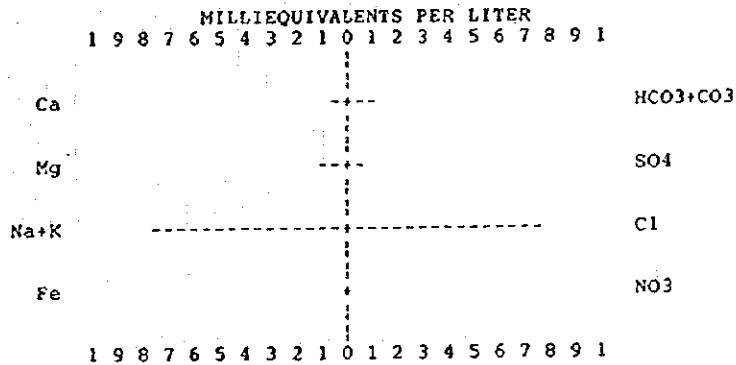
--- Analysis incomplete ---

Bicarbonate missing or zero.

Project : dhaid
 Organization : jica

Sample : 0529-8

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 3245. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.10 Mg= 4.36 Na= 38.06 K= 0.64 Fe= 0.01
 HCO3= 3.26 CO3= 1.30 SO4= 3.54 Cl= 36.94 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 42. Mg= 53. Na= 875. K= 25. Fe= 0.10
 HCO3=199. CO3= 39. SO4= 170. Cl= 1310. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 5070.

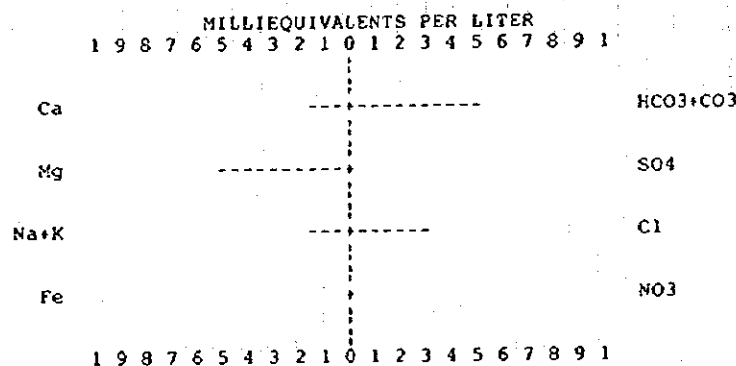
pH= 8.8

SODIUM ADSORPTION RATIO (SAR) = 21.19

Project : dhaid
 Organization : jica

Sample : 0529-9

TOTAL SCALE = 5 MILLIEQUIVALENTS PER LITER EACH DASH = 0.25



TOTAL DISSOLVED SOLIDS 263. PPM

WATER TYPE ---- MAGNESIUM BICARBONATE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.85 Mg= 2.55 Na= 0.65 K= 0.10 Fe= 0.00
 HCO3= 2.51 CO3= 0.00 SO4= 0.08 Cl= 1.55 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 17. Mg= 31. Na= 15. K= 4. Fe= 0.04
 HCO3=153. CO3= 0. SO4= 4. Cl= 55. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 411.

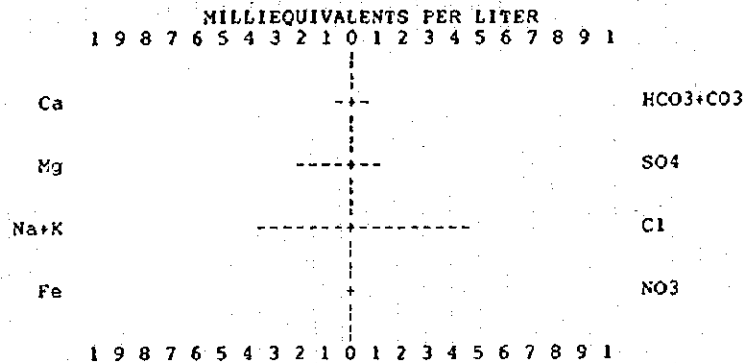
pH= 8.2

SODIUM ADSORPTION RATIO (SAR) = 0.50

Project : dhaid
Organization : jica

Sample : 0530-2

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 1990. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.10 Mg= 9.70 Na= 17.40 K= 0.31 Fe= 0.00
HCO3= 2.93 CO3= 0.00 SO4= 4.96 Cl= 21.57 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 42. Mg=118. Na= 400. K= 12. Fe= 0.04
HCO3=179. CO3= 0. SO4= 238. Cl= 765. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 3110.

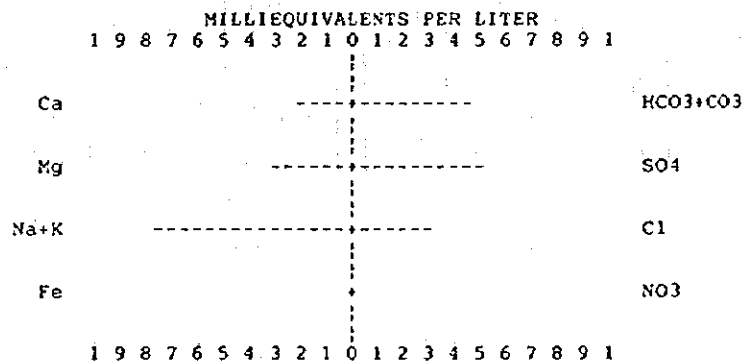
pH= 8.3

SODIUM ADSORPTION RATIO (SAR) = 7.16

Project : dhaid
Organization : jica

Sample : 0530-3

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 806. PPM

WATER TYPE ----- SODIUM SULFATE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.85 Mg= 3.21 Na= 7.39 K= 0.28 Fe= 0.00
HCO3= 4.70 CO3= 0.00 SO4= 5.04 Cl= 3.02 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 37. Mg= 39. Na= 170. K= 11. Fe= 0.04
HCO3=287. CO3= 0. SO4= 242. Cl= 107. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1260.

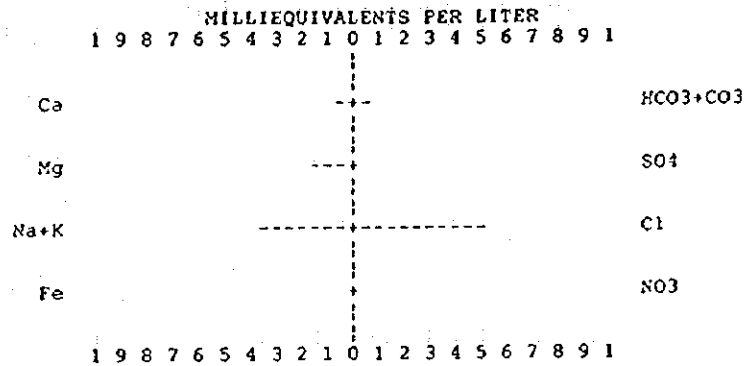
pH= 7.6

SODIUM ADSORPTION RATIO (SAR) = 4.65

Project : dhaid
Organization : jica

Sample : 0530-4

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 1862. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.75 Mg= 7.07 Na= 17.40 K= 0.38 Fe= 0.00
HCO3= 2.28 CO3= 0.00 SO4= 0.29 Cl= 24.00 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 35. Mg= 86. Na= 400. K= 15. Fe= 0.04
HCO3=139. CO3= 0. SO4= 14. Cl= 851. NO3= 0.00

Mn = 0.16 ppm

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2910.

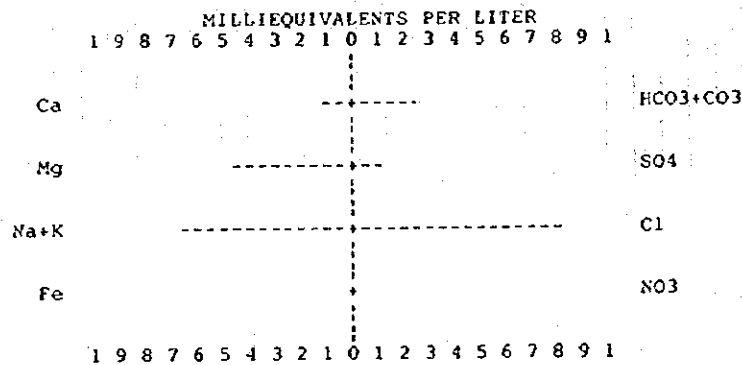
pH= 7.5

SODIUM ADSORPTION RATIO (SAR) = 8.29

Project : dhaid
Organization : jica

Sample : 0530-5

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 768. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.05 Mg= 4.28 Na= 6.44 K= 0.18 Fe= 0.00
HCO3= 2.74 CO3= 0.00 SO4= 1.19 Cl= 7.98 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 21. Mg= 52. Na= 148. K= 7. Fe= 0.04
HCO3=167. CO3= 0. SO4= 57. Cl= 283. NO3= 0.00

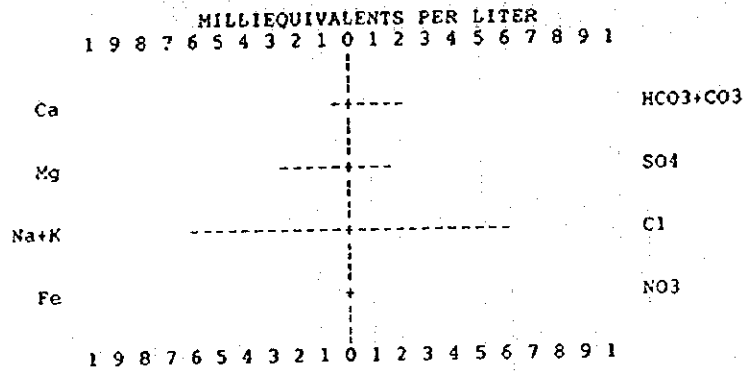
ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1200.

pH= 7.8

SODIUM ADSORPTION RATIO (SAR) = 3.95

Project : dhaid
 Organization : jica
 Sample : 0530-6

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1203. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.05 Mg= 5.26 Na= 11.70 K= 0.18 Fe= 0.00
 HCO3= 3.52 CO3= 0.00 SO4= 2.52 Cl= 12.10 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 21. Mg= 64. Na= 269. K= 7. Fe= 0.04
 HCO3=215. CO3= 0. SO4= 121. Cl= 429. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1880.

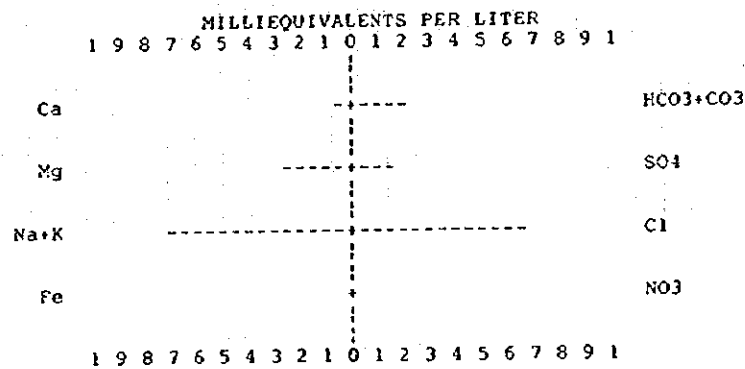
pH= 7.7

SODIUM ADSORPTION RATIO (SAR) = 6.59

Project : dhaid
 Organization : jica

Sample : 0530-7

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1293. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.40 Mg= 4.52 Na= 13.44 K= 0.31 Fe= 0.00
 HCO3= 3.92 CO3= 0.00 SO4= 2.96 Cl= 12.75 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 28. Mg= 55. Na= 309. K= 12. Fe= 0.04
 HCO3=239. CO3= 0. SO4= 142. Cl= 452. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2020.

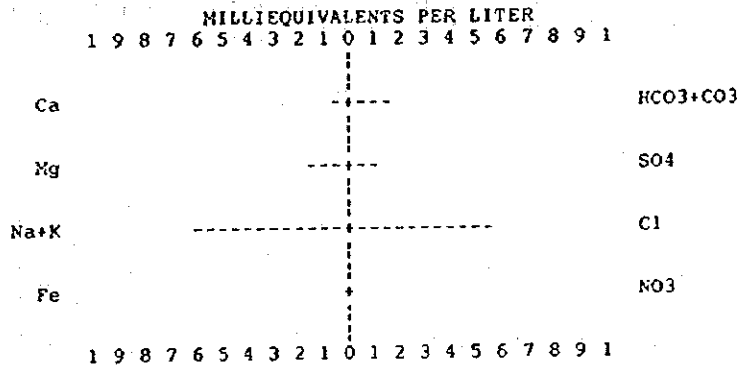
pH= 7.7

SODIUM ADSORPTION RATIO (SAR) = 7.81

Project : dhaid
Organization : jica

Sample : 0530-8

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1069. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.05 Mg= 2.88 Na= 11.74 K= 0.33 Fe= 0.00
HCO3= 2.93 CO3= 0.00 SO4= 2.31 Cl= 10.72 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 21. Mg= 35. Na= 270. K= 13. Fe= 0.04
HCO3=179. CO3= 0. SO4= 111. Cl= 380. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1670.

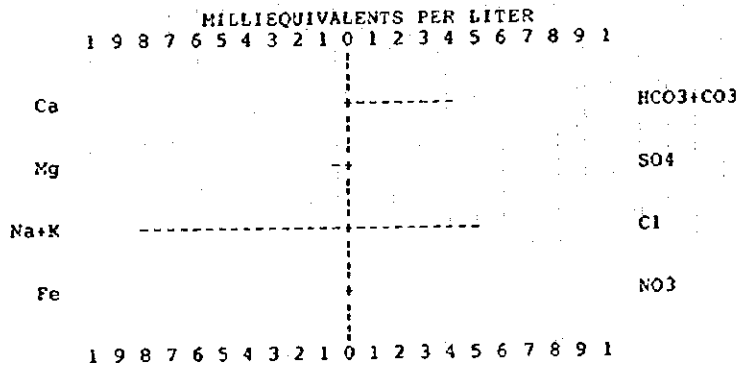
pH= 7.8

SODIUM ADSORPTION RATIO (SAR) = 8.38

Project : dhaid
Organization : jica

Sample : 0530-9

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 595. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.20 Mg= 0.49 Na= 8.05 K= 0.15 Fe= 0.00
HCO3= 3.92 CO3= 0.00 SO4= 0.01 Cl= 4.96 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 4. Mg= 6. Na= 185. K= 6. Fe= 0.04
HCO3=239. CO3= 0. SO4= 0. Cl= 176. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 930.

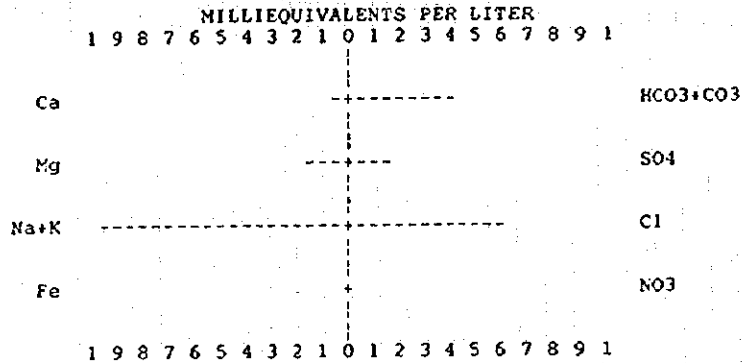
pH= 8.3

SODIUM ADSORPTION RATIO (SAR) = 13.67

Project : dhaid
Organization : jica

Sample : 0531-1

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 768. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.60 Mg= 1.32 Na= 9.57 K= 0.13 Fe= 0.00
HCO3= 3.72 CO3= 0.40 SO4= 1.52 Cl= 6.06 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 12. Mg= 16. Na= 220. K= 5. Fe= 0.04
HCO3=227. CO3= 12. SO4= 73. Cl= 215. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1200.

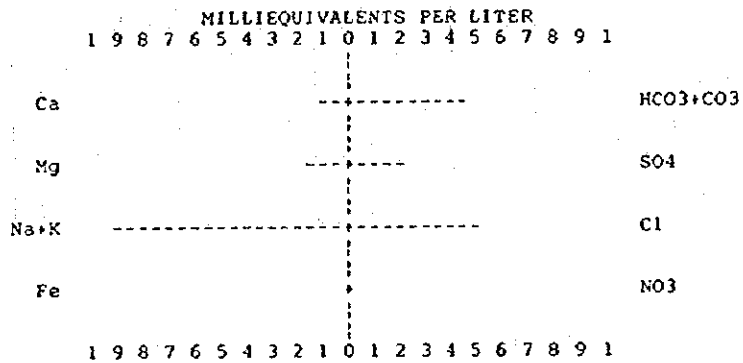
pH= 8.2

SODIUM ADSORPTION RATIO (SAR) = 9.78

Project : dhaid
Organization : jica

Sample : 0531-2

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 678. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.85 Mg= 1.40 Na= 9.00 K= 0.13 Fe= 0.00
HCO3= 3.92 CO3= 0.40 SO4= 2.12 Cl= 4.96 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 17. Mg= 17. Na= 207. K= 5. Fe= 0.04
HCO3=239. CO3= 12. SO4= 102. Cl= 176. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1060.

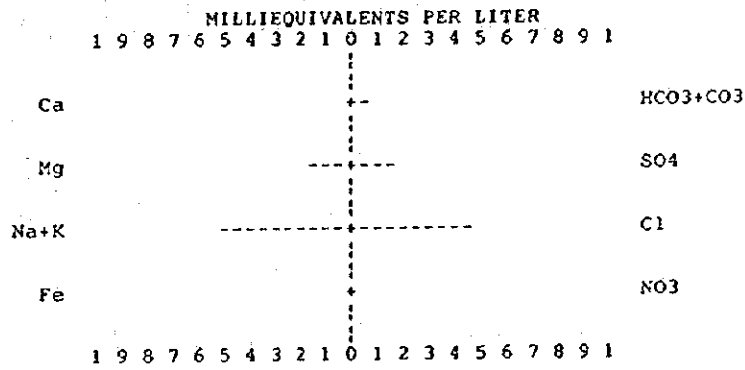
pH= 8.0

SODIUM ADSORPTION RATIO (SAR) = 8.50

Project : dhaid
Organization : jica

Sample : 0531-4

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 2144. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.70 Mg= 7.57 Na= 24.93 K= 0.28 Fe= 0.01
HCO3= 3.33 CO3= 0.40 SO4= 8.18 Cl= 21.57 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 14. Mg= 92. Na= 573. K= 11. Fe= 0.10
HCO3=203. CO3= 12. SO4= 393. Cl= 765. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 3350.

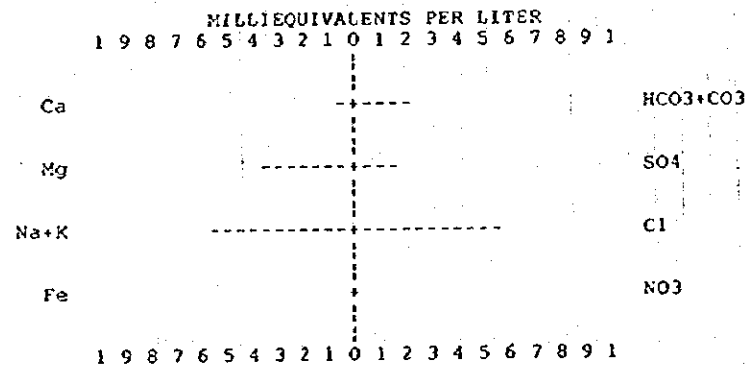
pH= 8.1

SODIUM ADSORPTION RATIO (SAR) = 12.26

Project : dhaid
Organization : jica

Sample : 0531-5

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1203. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.05 Mg= 6.58 Na= 10.44 K= 0.23 Fe= 0.01
HCO3= 3.92 CO3= 0.40 SO4= 2.73 Cl= 11.28 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 21. Mg= 80. Na= 240. K= 9. Fe= 0.10
HCO3=239. CO3= 12. SO4= 131. Cl= 400. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1880.

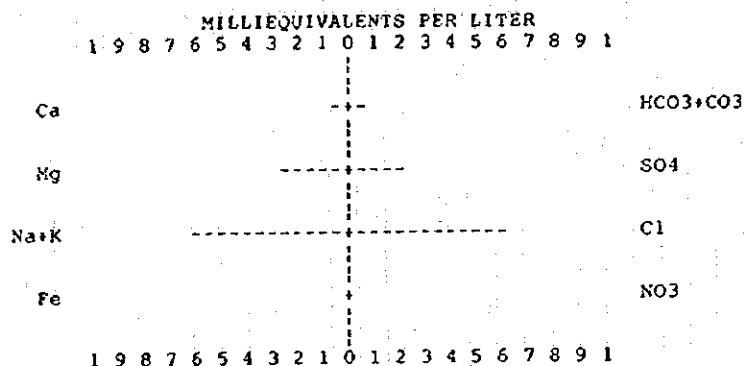
pH= 7.7

SODIUM ADSORPTION RATIO (SAR) = 5.35

Project : dhaid
Organization : jica

Sample : 0531-6

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 2931. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.40 Mg= 13.16 Na= 29.36 K= 0.36 Fe= 0.01
HCO3= 3.28 CO3= 0.00 SO4= 10.24 Cl= 30.79 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 28. Mg=160. Na= 675. K= 14. Fe= 0.10
HCO3=200. CO3= 0. SO4= 492. Cl= 1092. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 4580.

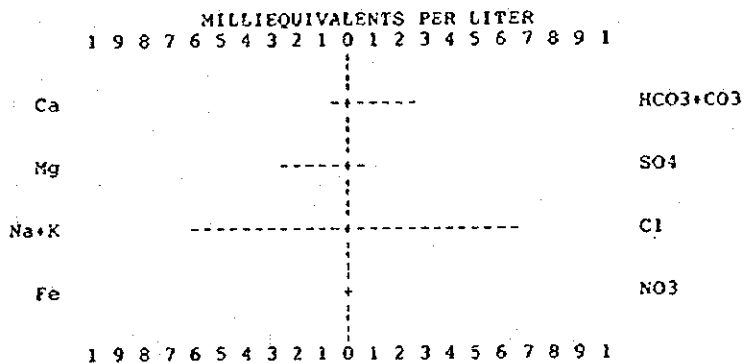
pH= 7.8

SODIUM ADSORPTION RATIO (SAR) = 10.88

Project : dhaid
Organization : jica

Sample : 0531-7

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1210. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.25 Mg= 4.85 Na= 12.18 K= 0.26 Fe= 0.01
HCO3= 4.70 CO3= 0.00 SO4= 1.17 Cl= 12.66 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 25. Mg= 59. Na= 280. K= 10. Fe= 0.10
HCO3=287. CO3= 0. SO4= 56. Cl= 449. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1890.

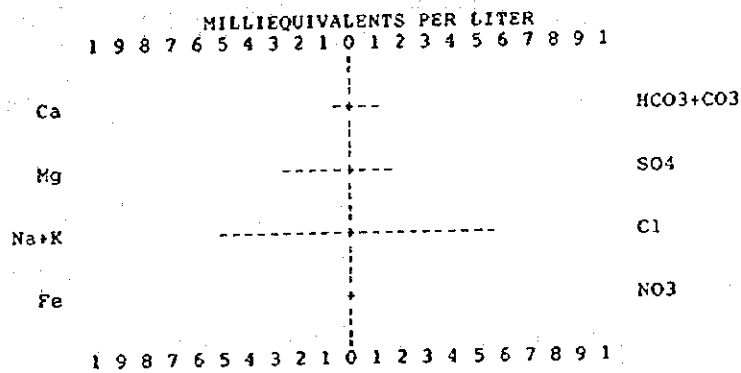
pH= 8.1

SODIUM ADSORPTION RATIO (SAR) = 6.97

Project : dhaid
Organization : jica

Sample : 0531-8

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 2605. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.79 Mg= 11.27 Na= 25.01 K= 0.54 Fe= 0.01
HCO₃= 4.51 CO₃= 0.40 SO₄= 7.41 Cl= 27.27 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 56. Mg=137. Na= 575. K= 21. Fe= 0.10
HCO₃=275. CO₃= 12. SO₄= 356. Cl= 967. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 4070.

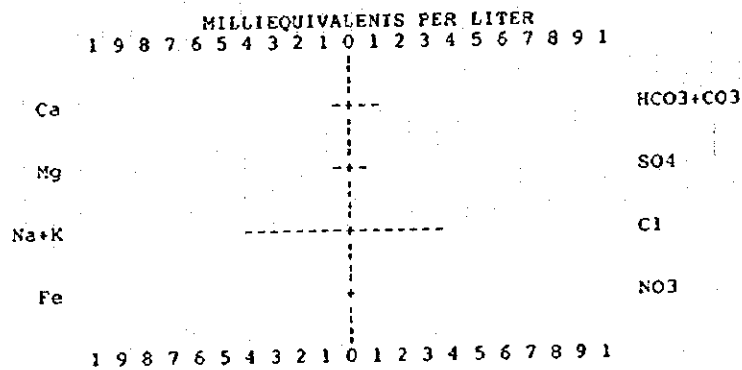
pH= 7.6

SODIUM ADSORPTION RATIO (SAR) = 9.43

Project : dhaid
Organization : jica

Sample : 0531-9

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 1696. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.40 Mg= 3.29 Na= 20.66 K= 0.28 Fe= 0.01
HCO₃= 4.25 CO₃= 0.00 SO₄= 3.33 Cl= 18.05 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 28. Mg= 40. Na= 475. K= 11. Fe= 0.10
HCO₃=259. CO₃= 0. SO₄= 160. Cl= 640. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2650.

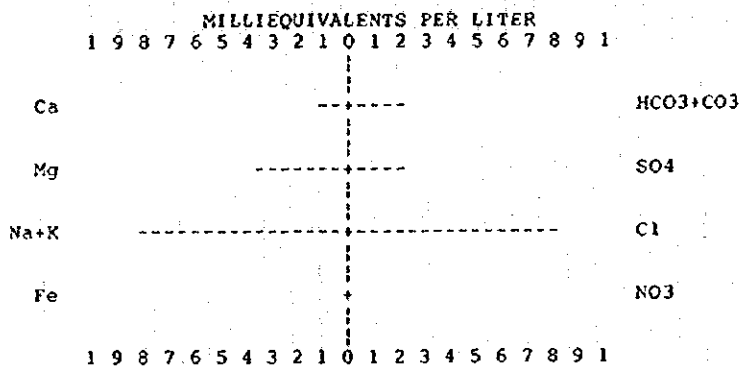
pH= 7.7

SODIUM ADSORPTION RATIO (SAR) = 13.50

Project : dhaid
Organization : jica

Sample : 0601-1

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1568. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.75 Mg= 7.07 Na= 15.31 K= 0.28 Fe= 0.01
HCO₃= 4.31 CO₃= 0.00 SO₄= 3.83 Cl= 16.27 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 35. Mg= 86. Na= 352. K= 11. Fe= 0.10
HCO₃=263. CO₃= 0. SO₄= 184. Cl= 577. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2450.

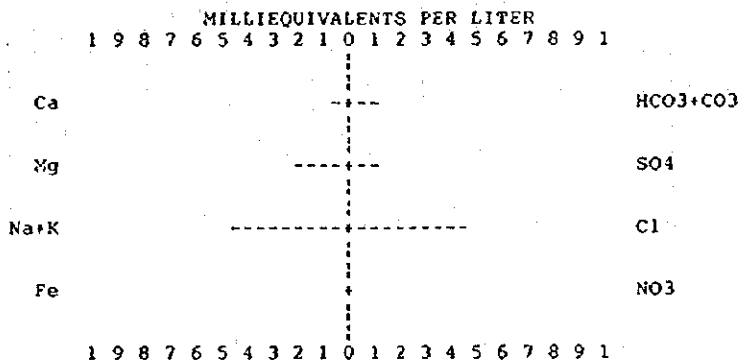
pH= 7.5

SODIUM ADSORPTION RATIO (SAR) = 7.29

Project : dhaid
Organization : jica

Sample : 0601-2

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 2234. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.79 Mg= 8.96 Na= 21.75 K= 0.26 Fe= 0.01
HCO₃= 4.29 CO₃= 0.40 SO₄= 5.75 Cl= 23.32 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 56. Mg=109. Na= 500. K= 10. Fe= 0.10
HCO₃=262. CO₃= 12. SO₄= 276. Cl= 827. NO₃= 0.00

Mn = 0.04 ppm

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 3490.

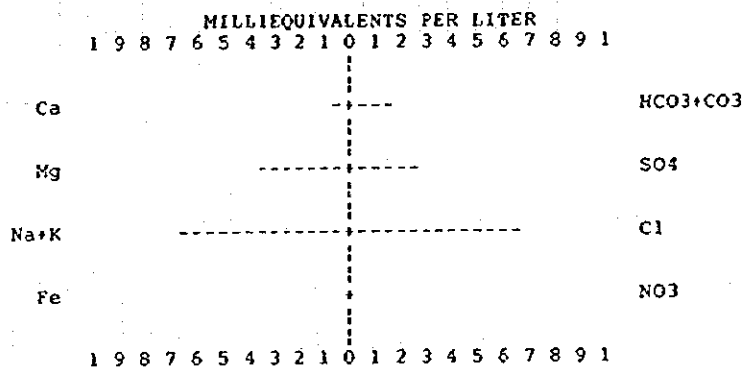
pH= 7.7

SODIUM ADSORPTION RATIO (SAR) = 8.97

Project : dhaid
Organization : jica

Sample : 0601-4

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 3334. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 3.14 Mg= 17.93 Na= 31.02 K= 0.46 Fe= 0.01
HCO₃= 5.88 CO₃= 0.40 SO₄= 13.70 Cl= 32.57 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 63. Mg=218. Na= 713. K= 18. Fe= 0.10
HCO₃=359. CO₃= 12. SO₄= 658. Cl= 1155. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 5210.

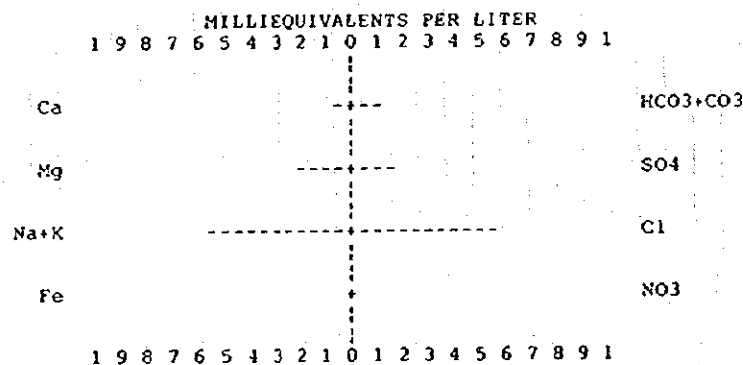
pH= 7.5

SODIUM ADSORPTION RATIO (SAR) = 9.56

Project : dhaid
Organization : jica

Sample : 0601-5

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 2662. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.10 Mg= 10.03 Na= 27.19 K= 0.38 Fe= 0.01
HCO₃= 5.88 CO₃= 0.00 SO₄= 6.48 Cl= 27.27 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 42. Mg=122. Na= 625. K= 15. Fe= 0.10
HCO₃=359. CO₃= 0. SO₄= 311. Cl= 967. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 4160.

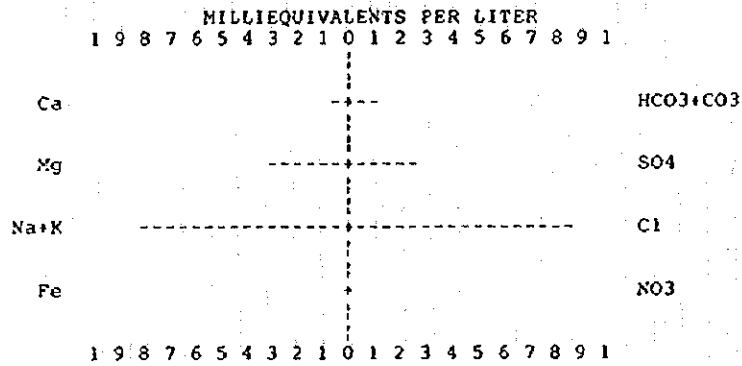
pH= 7.4

SODIUM ADSORPTION RATIO (SAR) = 11.04

Project : dhaid
Organization : jica

Sample : 0601-6

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 3936. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.79 Mg= 14.97 Na= 40.45 K= 0.54 Fe= 0.01
HCO3= 3.92 CO3= 0.00 SO4= 11.26 Cl= 43.57 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 56. Mg=182. Na= 930. K= 21. Fe= 0.20
HCO3=239. CO3= 0. SO4= 541. Cl= 1545. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 6150.

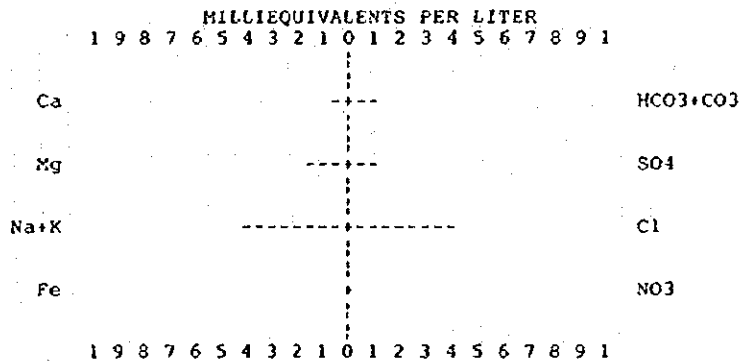
pH= 7.4

SODIUM ADSORPTION RATIO (SAR) = 13.58

Project : dhaid
Organization : jica

Sample : 0601-7

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 1862. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.75 Mg= 7.07 Na= 19.88 K= 0.41 Fe= 0.01
HCO3= 4.25 CO3= 0.00 SO4= 5.93 Cl= 18.92 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 35. Mg= 86. Na= 457. K= 16. Fe= 0.10
HCO3=259. CO3= 0. SO4= 285. Cl= 671. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2910.

pH= 7.6

SODIUM ADSORPTION RATIO (SAR) = 9.47

Project : dhaid
Organization : jica
Sample No 51 : 0601-8

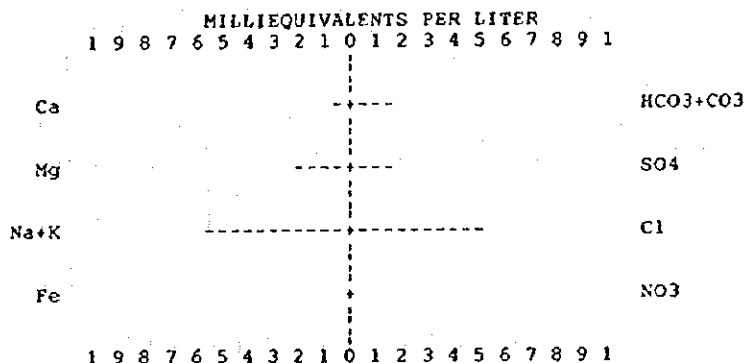
--- Analysis incomplete ---

Sulphate missing or zero.
Chloride missing or zero.

Project : dhaid
Organization : jica

Sample : 0601-10

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 2579. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.10 Mg= 9.38 Na= 28.27 K= 0.38 Fe= 0.01
HCO3= 6.46 CO3= 0.00 SO4= 8.10 Cl= 25.52 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 42. Mg= 114. Na= 650. K= 15. Fe= 0.20
HCO3= 394. CO3= 0. SO4= 389. Cl= 905. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 4030.

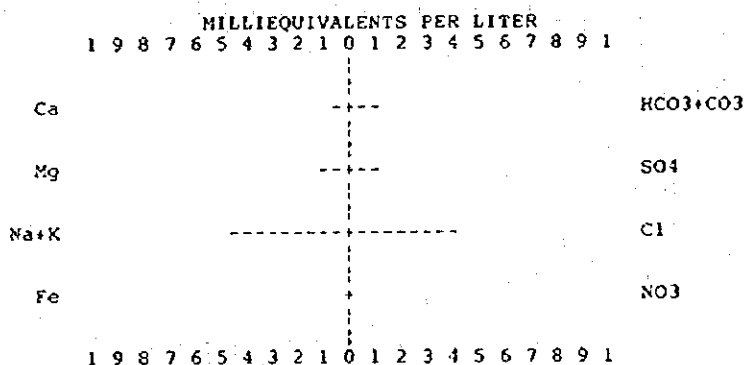
pH= 7.5

SODIUM ADSORPTION RATIO (SAR) = 11.81

Project : dhaid
Organization : jica

Sample : 0601-11

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 2016. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.75 Mg= 5.76 Na= 22.84 K= 0.36 Fe= 0.01
HCO3= 5.29 CO3= 0.77 SO4= 4.58 Cl= 20.05 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 35. Mg= 70. Na= 525. K= 14. Fe= 0.10
HCO3= 323. CO3= 23. SO4= 220. Cl= 711. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 3150.

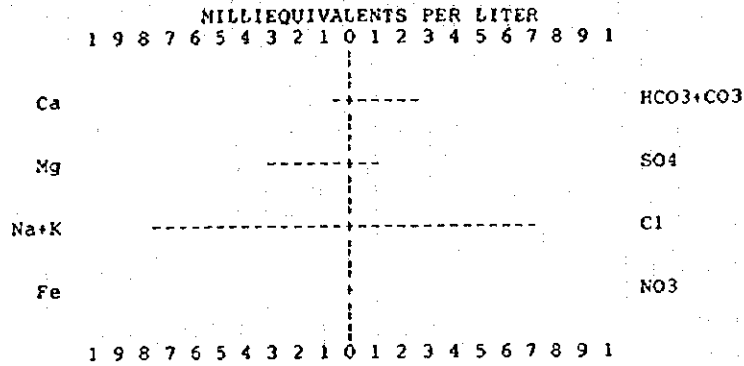
pH= 7.9

SODIUM ADSORPTION RATIO (SAR) = 11.79

Project : dhaid
Organization : jica

Sample : 0601-12

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1459. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.40 Mg= 5.51 Na= 14.35 K= 0.28 Fe= 0.01
HCO₃= 4.90 CO₃= 0.00 SO₄= 2.50 Cl= 14.07 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 28. Mg= 67. Na= 330. K= 11. Fe= 0.10
HCO₃=299. CO₃= 0. SO₄= 120. Cl= 499. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2280.

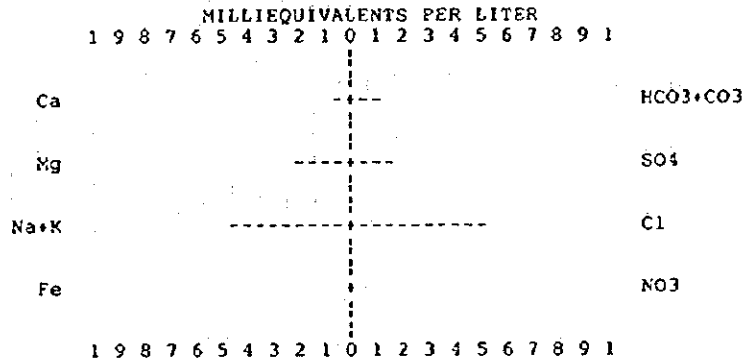
pH= 7.7

SODIUM ADSORPTION RATIO (SAR) = 7.72

Project : dhaid
Organization : jica

Sample : 0601-13

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 2323. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.79 Mg= 10.28 Na= 22.75 K= 0.36 Fe= 0.01
HCO₃= 4.57 CO₃= 0.00 SO₄= 7.43 Cl= 24.20 NO₃= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 56. Mg=125. Na= 523. K= 14. Fe= 0.10
HCO₃=279. CO₃= 0. SO₄= 357. Cl= 858. NO₃= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 3630.

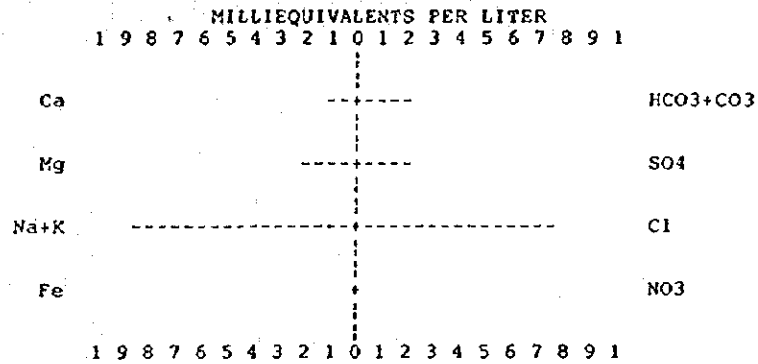
pH= 7.7

SODIUM ADSORPTION RATIO (SAR) = 8.90

Project : dhaid
Organization : jica

Sample : 0601-14

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1453. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.75 Mg= 4.11 Na= 16.31 K= 0.33 Fe= 0.00
HCO3= 3.92 CO3= 0.00 SO4= 4.06 Cl= 14.52 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 35. Mg= 50. Na= 375. K= 13. Fe= 0.04
HCO3=239. CO3= 0. SO4= 195. Cl= 515. NO3= 0.00

Mn = 0.02 ppm

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2270.

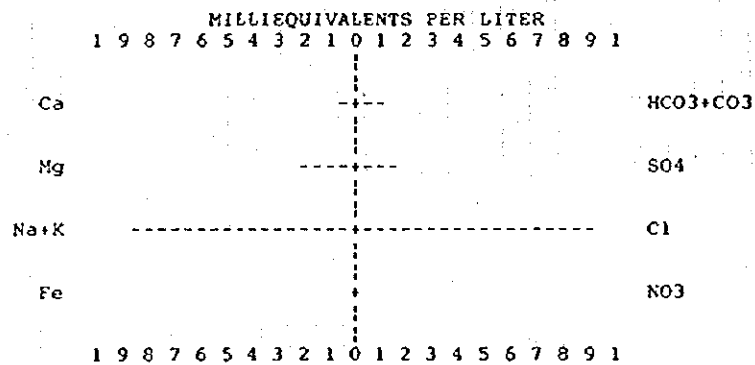
pH= 7.9

SODIUM ADSORPTION RATIO (SAR) = 9.53

Project : dhaid
Organization : jica

Sample : 0601-15

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1446. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.05 Mg= 3.87 Na= 17.23 K= 0.26 Fe= 0.00
HCO3= 1.97 CO3= 0.00 SO4= 2.81 Cl= 17.60 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 21. Mg= 47. Na= 396. K= 10. Fe= 0.04
HCO3=120. CO3= 0. SO4= 135. Cl= 624. NO3= 0.00

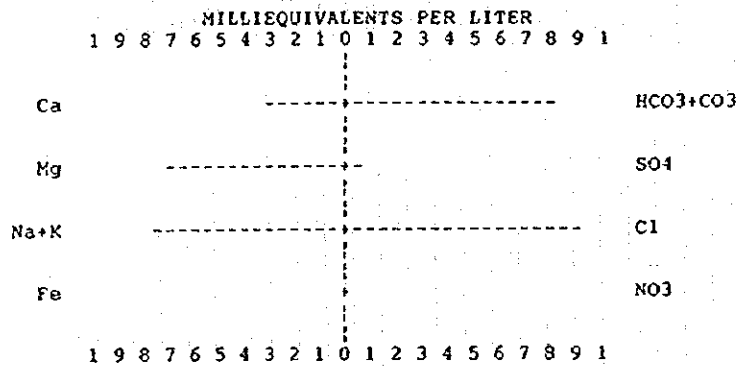
ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2260.

pH= 7.7

SODIUM ADSORPTION RATIO (SAR) = 10.99

Project : dhaid
 Organization : jica
 Sample : 0603-1

TOTAL SCALE = 5 MILLIEQUIVALENTS PER LITER EACH DASH = 0.25



TOTAL DISSOLVED SOLIDS 550. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.45 Mg= 3.54 Na= 3.48 K= 0.18 Fe= 0.00
 HCO3= 4.02 CO3= 0.00 SO4= 0.23 Cl= 4.40 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 29. Mg= 43. Na= 80. K= 7. Fe= 0.04
 HCO3=245. CO3= 0. SO4= 11. Cl= 156. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 860.

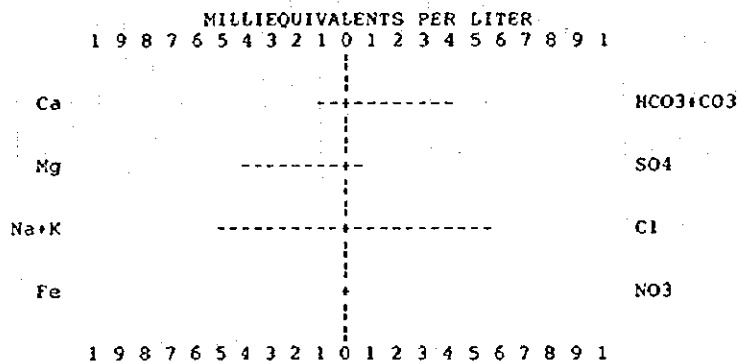
pH= 7.6

SODIUM ADSORPTION RATIO (SAR) = 2.20

Project : dhaid
 Organization : jica

Sample : 0603-2

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 646. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.25 Mg= 3.67 Na= 4.78 K= 0.13 Fe= 0.00
 HCO3= 4.10 CO3= 0.00 SO4= 0.42 Cl= 5.50 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 25. Mg= 47. Na= 110. K= 5. Fe= 0.02
 HCO3=250. CO3= 0. SO4= 20. Cl= 195. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1010.

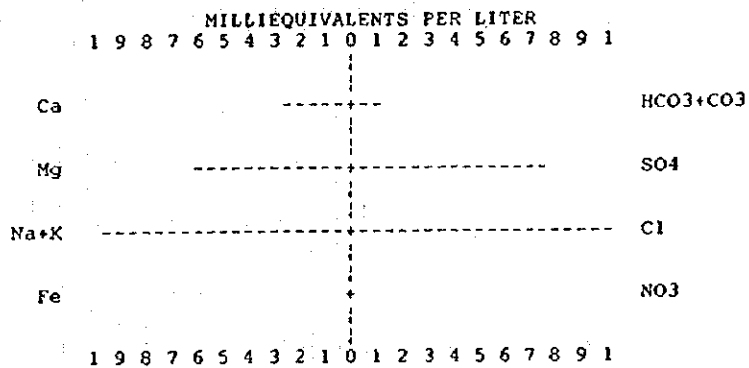
pH= 8.1

SODIUM ADSORPTION RATIO (SAR) = 2.99

Project : dhaid
Organization : jica

Sample : 0603-4

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 5728. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 13.52 Mg= 31.17 Na= 47.85 K= 0.61 Fe= 0.02
HCO3= 5.56 CO3= 0.00 SO4= 38.75 Cl= 48.84 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca=271. Mg=379. Na= 1100. K= 24. Fe= 0.30
HCO3=339. CO3= 0. SO4= 1861. Cl= 1732. NO3= 0.00

Mn = 0.04 ppm

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 8950.

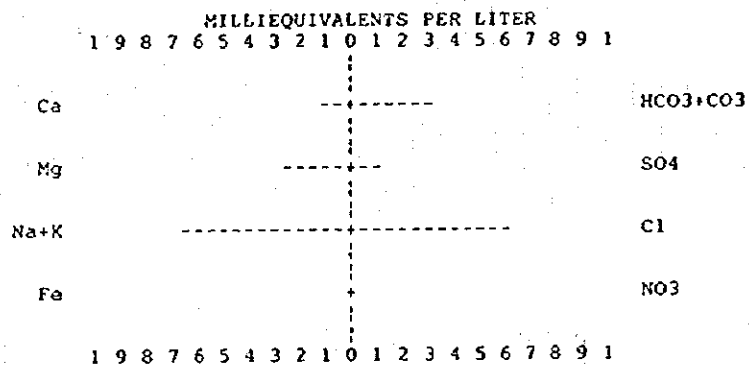
pH= 7.2

SODIUM ADSORPTION RATIO (SAR) = 10.12

Project : dhaid
Organization : jica

Sample : 0603-5

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1280. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.10 Mg= 5.02 Na= 13.05 K= 0.23 Fe= 0.00
HCO3= 6.13 CO3= 0.00 SO4= 2.37 Cl= 11.87 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 42. Mg= 61. Na= 300. K= 9. Fe= 0.00
HCO3=374. CO3= 0. SO4= 114. Cl= 421. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2000.

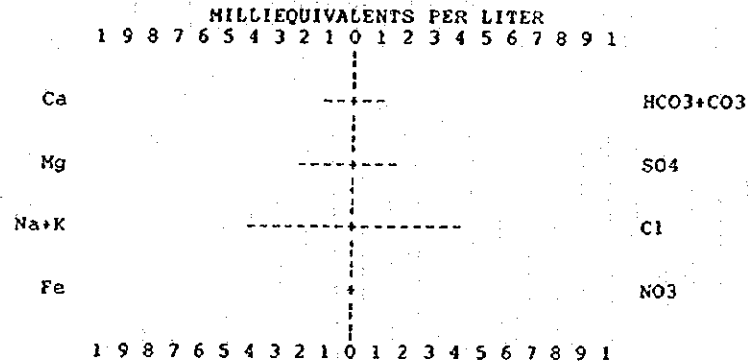
pH= 7.8

SODIUM ADSORPTION RATIO (SAR) = 6.92

Project : dhaid
Organization : jica

Sample : 0603-6

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 2202. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 4.14 Mg= 10.20 Na= 19.57 K= 0.36 Fe= 0.01
HCO3= 6.20 CO3= 0.00 SO4= 7.00 Cl= 21.12 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 83. Mg=124. Na= 450. K= 14. Fe= 0.10
HCO3=378. CO3= 0. SO4= 336. Cl= 749. NO3= 0.00

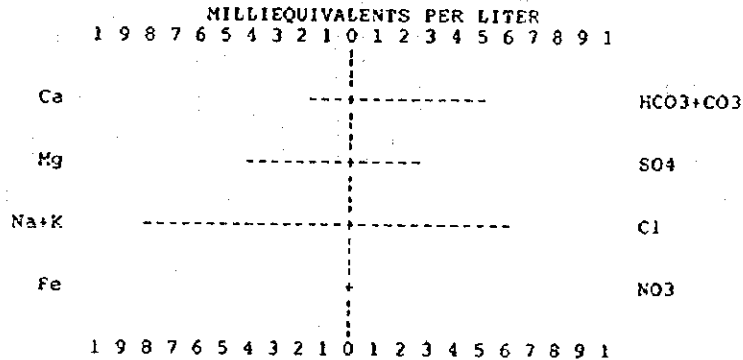
ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 3440.
pH= 7.3

SODIUM ADSORPTION RATIO (SAR) = 7.31

Project : dhaid
Organization : jica

Sample : 0603-7

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 806. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.30 Mg= 3.78 Na= 8.00 K= 0.18 Fe= 0.00
HCO3= 4.90 CO3= 0.00 SO4= 2.39 Cl= 6.06 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 26. Mg= 46. Na= 184. K= 7. Fe= 0.04
HCO3=299. CO3= 0. SO4= 115. Cl= 215. NO3= 0.00

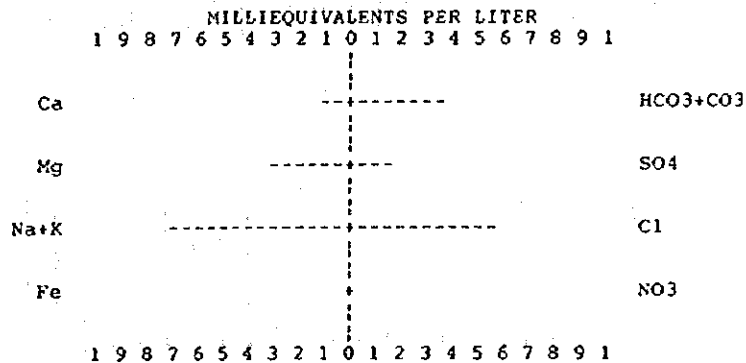
ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1260.
pH= 7.6

SODIUM ADSORPTION RATIO (SAR) = 5.02

Project : dhaid
Organization : jica

Sample : 0604-1

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1376. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.75 Mg= 6.00 Na= 13.70 K= 0.23 Fe= 0.00
HCO3= 6.87 CO3= 0.00 SO4= 3.39 Cl= 11.45 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 35. Mg= 73. Na= 315. K= 9. Fe= 0.04
HCO3=419. CO3= 0. SO4= 163. Cl= 406. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2150.

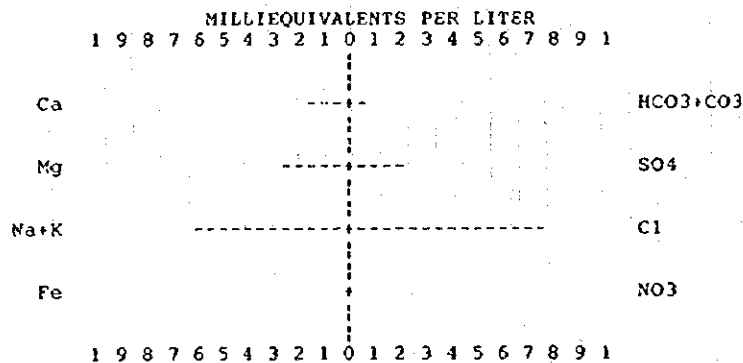
pH= 7.5

SODIUM ADSORPTION RATIO (SAR) = 6.96

Project : dhaid
Organization : jica

Sample : 0604-5

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 3296. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 7.29 Mg= 12.01 Na= 30.58 K= 0.18 Fe= 0.00
HCO3= 2.61 CO3= 0.00 SO4= 10.45 Cl= 36.97 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca=146. Mg=146. Na= 703. K= 7. Fe= 0.04
HCO3=159. CO3= 0. SO4= 502. Cl= 1311. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 5150.

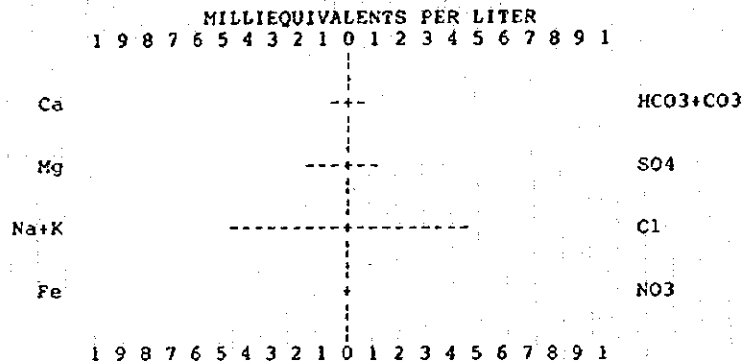
pH= 7.4

SODIUM ADSORPTION RATIO (SAR) = 9.85

Project : dhaid
Organization : jica

Sample : 0604-6

TOTAL SCALE = 50 MILLIEQUIVALENTS PER LITER EACH DASH = 2.50



TOTAL DISSOLVED SOLIDS 2042. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.79 Mg= 6.99 Na= 21.01 K= 0.26 Fe= 0.00
HCO3= 3.28 CO3= 0.00 SO4= 6.23 Cl= 21.57 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 56. Mg= 85. Na= 483. K= 10. Fe= 0.04
HCO3=200. CO3= 0. SO4= 299. Cl= 765. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 3190.

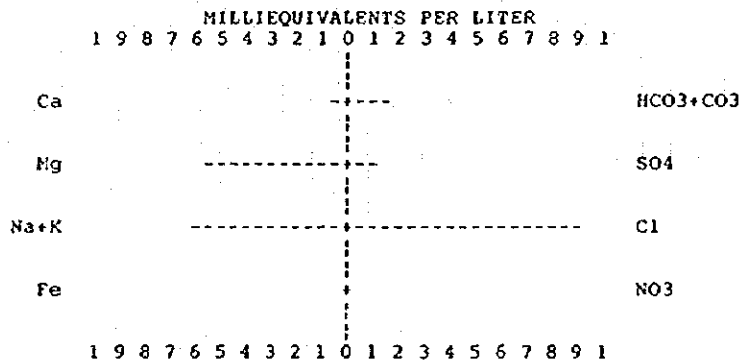
pH= 7.5

SODIUM ADSORPTION RATIO (SAR) = 9.50

Project : dhaid
Organization : jica

Sample : 0604-7

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1510. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.70 Mg= 10.77 Na= 12.18 K= 0.13 Fe= 0.00
HCO3= 3.28 CO3= 0.00 SO4= 2.42 Cl= 18.05 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 14. Mg=131. Na= 280. K= 5. Fe= 0.04
HCO3=200. CO3= 0. SO4= 116. Cl= 640. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2360.

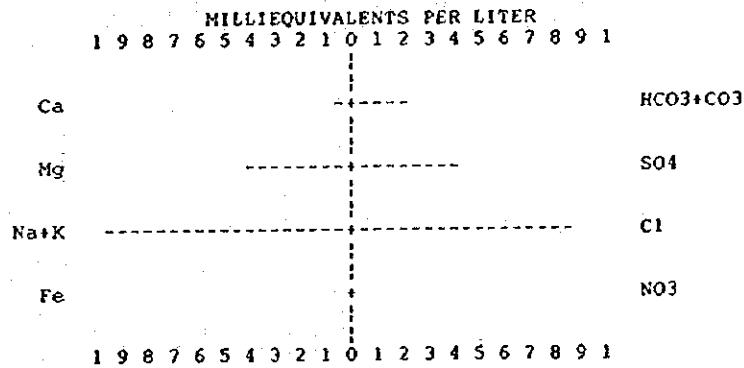
pH= 7.5

SODIUM ADSORPTION RATIO (SAR) = 5.09

Project : dhaid
Organization : jica

Sample : 0604-8

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1798. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.69 Mg= 8.31 Na= 19.01 K= 0.23 Fe= 0.00
HCO3= 1.97 CO3= 1.97 SO4= 7.52 Cl= 16.78 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 14. Mg=101. Na= 437. K= 9. Fe= 0.00
HCO3=120. CO3= 59. SO4= 361. Cl= 595. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2810.

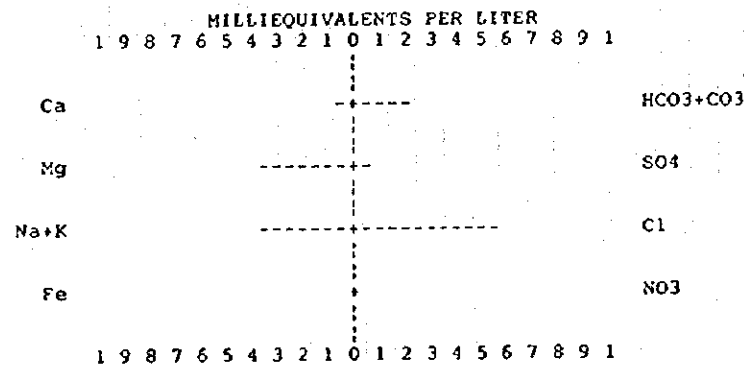
pH= 9.1

SODIUM ADSORPTION RATIO (SAR) = 8.96

Project : dhaid
Organization : jica

Sample : 0604-9

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1043. PPM

WATER TYPE ---- MAGNESIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.60 Mg= 7.48 Na= 7.18 K= 0.28 Fe= 0.00
HCO3= 3.72 CO3= 0.00 SO4= 0.58 Cl= 11.28 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 12. Mg= 91. Na= 165. K= 11. Fe= 0.04
HCO3=227. CO3= 0. SO4= 28. Cl= 400. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1630.

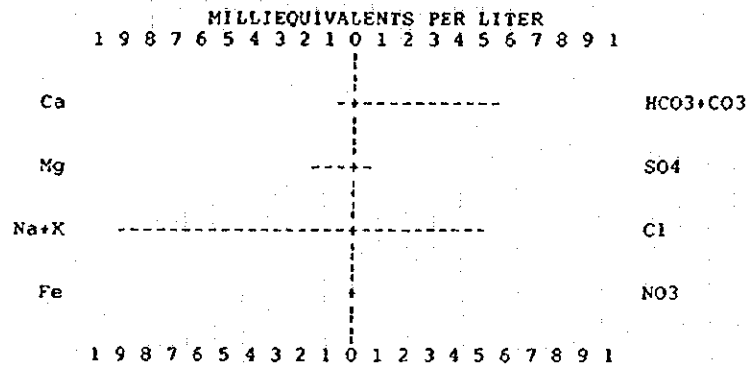
pH= 7.6

SODIUM ADSORPTION RATIO (SAR) = 3.57

Project : dhaid
Organization : jica

Sample : 0604-10

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 653. PPM

WATER TYPE ---- SODIUM BICARBONATE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.40 Mg= 1.32 Na= 8.70 K= 0.13 Fe= 0.00
HCO3= 4.51 CO3= 0.77 SO4= 0.35 Cl= 4.96 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 8. Mg= 16. Na= 200. K= 5. Fe= 0.04
HCO3=275. CO3= 23. SO4= 17. Cl= 176. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1020.

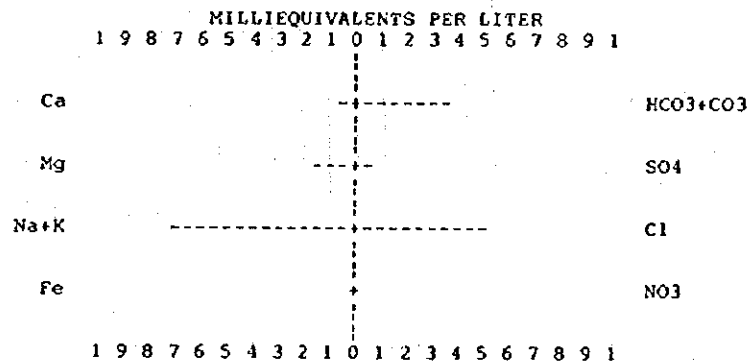
pH= 8.1

SODIUM ADSORPTION RATIO (SAR) = 9.40

Project : dhaid
Organization : jica

Sample : 0604-11

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 589. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.40 Mg= 1.56 Na= 6.83 K= 0.23 Fe= 0.00
HCO3= 3.52 CO3= 0.00 SO4= 0.65 Cl= 4.85 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 8. Mg= 19. Na= 157. K= 9. Fe= 0.04
HCO3=215. CO3= 0. SO4= 31. Cl= 172. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 420.

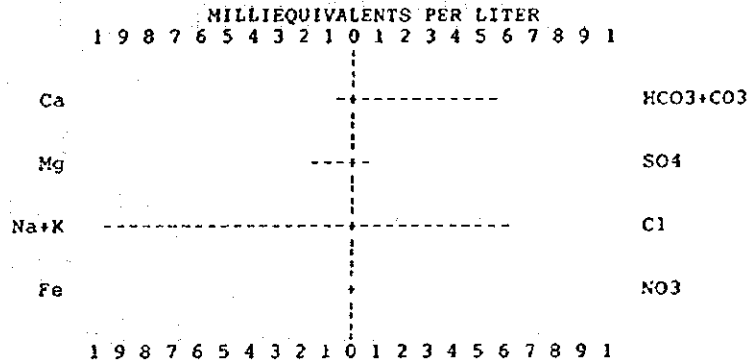
pH= 7.6

SODIUM ADSORPTION RATIO (SAR) = 6.90

Project : dhaid
Organization : jica

Sample : 0604-12

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 704. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.40 Mg= 1.73 Na= 9.13 K= 0.13 Fe= 0.00
HCO3= 4.90 CO3= 0.40 SO4= 0.33 Cl= 5.78 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 8. Mg= 21. Na= 210. K= 5. Fe= 0.04
HCO3=299. CO3= 12. SO4= 16. Cl= 205. NO3= 0.00

Mn = 0.02 ppm

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1100.

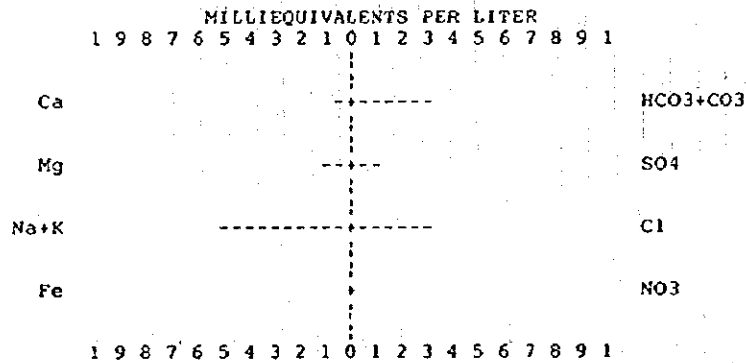
pH= 8.1

SODIUM ADSORPTION RATIO (SAR) = 8.86

Project : dhaid
Organization : jica

Sample : 0604-13

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 431. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.30 Mg= 1.23 Na= 5.00 K= 0.13 Fe= 0.00
HCO3= 2.93 CO3= 0.00 SO4= 0.77 Cl= 2.96 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 6. Mg= 15. Na= 115. K= 5. Fe= 0.04
HCO3=179. CO3= 0. SO4= 37. Cl= 105. NO3= 0.00

Mn = 0.02 ppm

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 674.

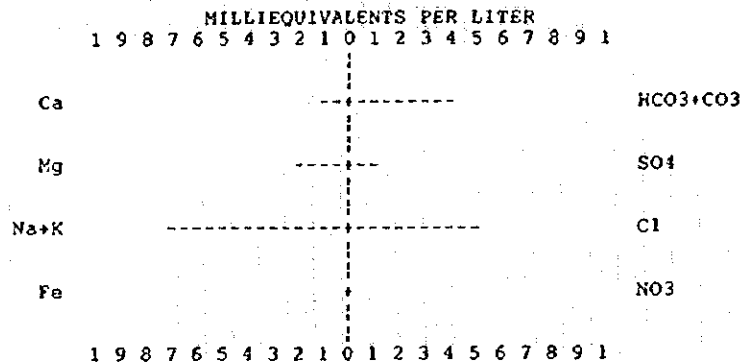
pH= 8.1

SODIUM ADSORPTION RATIO (SAR) = 5.71

Project : dhaid
Organization : jica

Sample : 0604-14

TOTAL SCALE = 10 MILLIEQUIVALENTS PER LITER EACH DASH = 0.50



TOTAL DISSOLVED SOLIDS 634. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.85 Mg= 2.14 Na= 6.92 K= 0.13 Fe= 0.00
HCO3= 3.92 CO3= 0.00 SO4= 1.12 Cl= 4.96 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 17. Mg= 26. Na= 159. K= 5. Fe= 0.04
HCO3=239. CO3= 0. SO4= 54. Cl= 176. NO3= 0.00

Mn = 0.02 ppm

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 991.

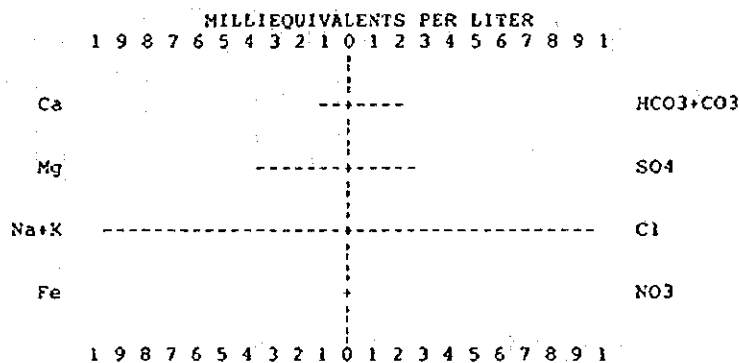
pH= 7.9

SODIUM ADSORPTION RATIO (SAR) = 5.66

Project : dhaid
Organization : jica

Sample : 0604-15

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1747. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 1.75 Mg= 6.91 Na= 18.66 K= 0.28 Fe= 0.01
HCO3= 3.59 CO3= 0.00 SO4= 5.10 Cl= 18.92 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 35. Mg= 84. Na= 429. K= 11. Fe= 0.10
HCO3=219. CO3= 0. SO4= 245. Cl= 671. NO3= 0.00

Mn = 0.02 ppm

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2730.

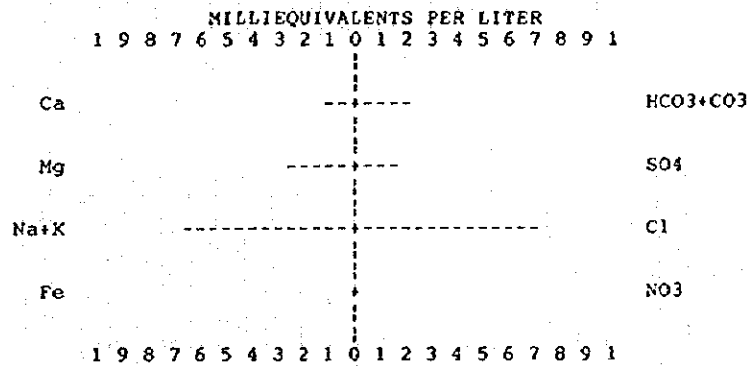
pH= 7.6

SODIUM ADSORPTION RATIO (SAR) = 8.97

Project : dhaid
Organization : jica

Sample : 0604-16

TOTAL SCALE = 20 MILLIEQUIVALENTS PER LITER EACH DASH = 1.00



TOTAL DISSOLVED SOLIDS 1389. PPM

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 2.35 Mg= 5.18 Na= 13.05 K= 0.23 Fe= 0.01
HCO3= 3.72 CO3= 0.00 SO4= 3.04 Cl= 14.04 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

Ca= 47. Mg= 63. Na= 300. K= 9. Fe= 0.10
HCO3=227. CO3= 0. SO4= 146. Cl= 498. NO3= 0.00

Mn = 0.02 ppm

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 2170.

pH= 7.8

SODIUM ADSORPTION RATIO (SAR) = 6.73

Project : dhaid
Organization : jica
Sample : 0509-3

***** CATIONS AND ANIONS DO NOT BALANCE *****

Sum of cations = 19.47 EPM
Sum of anions = 14.55 EPM
Error = 28.92 %

Error is defined as twice the difference
divided by sum of cations and anions.

WATER TYPE ---- SODIUM CHLORIDE

CONSTITUENTS IN MILLIEQUIVALENTS PER LITER

Ca= 0.80 Mg= 1.15 Na= 12.53 K= 4.99 Fe= 0.01
HCO3= 4.00 CO3= 0.00 SO4= 2.54 Cl= 8.01 NO3= 0.00

CONSTITUENTS IN MILLIGRAMS PER LITER

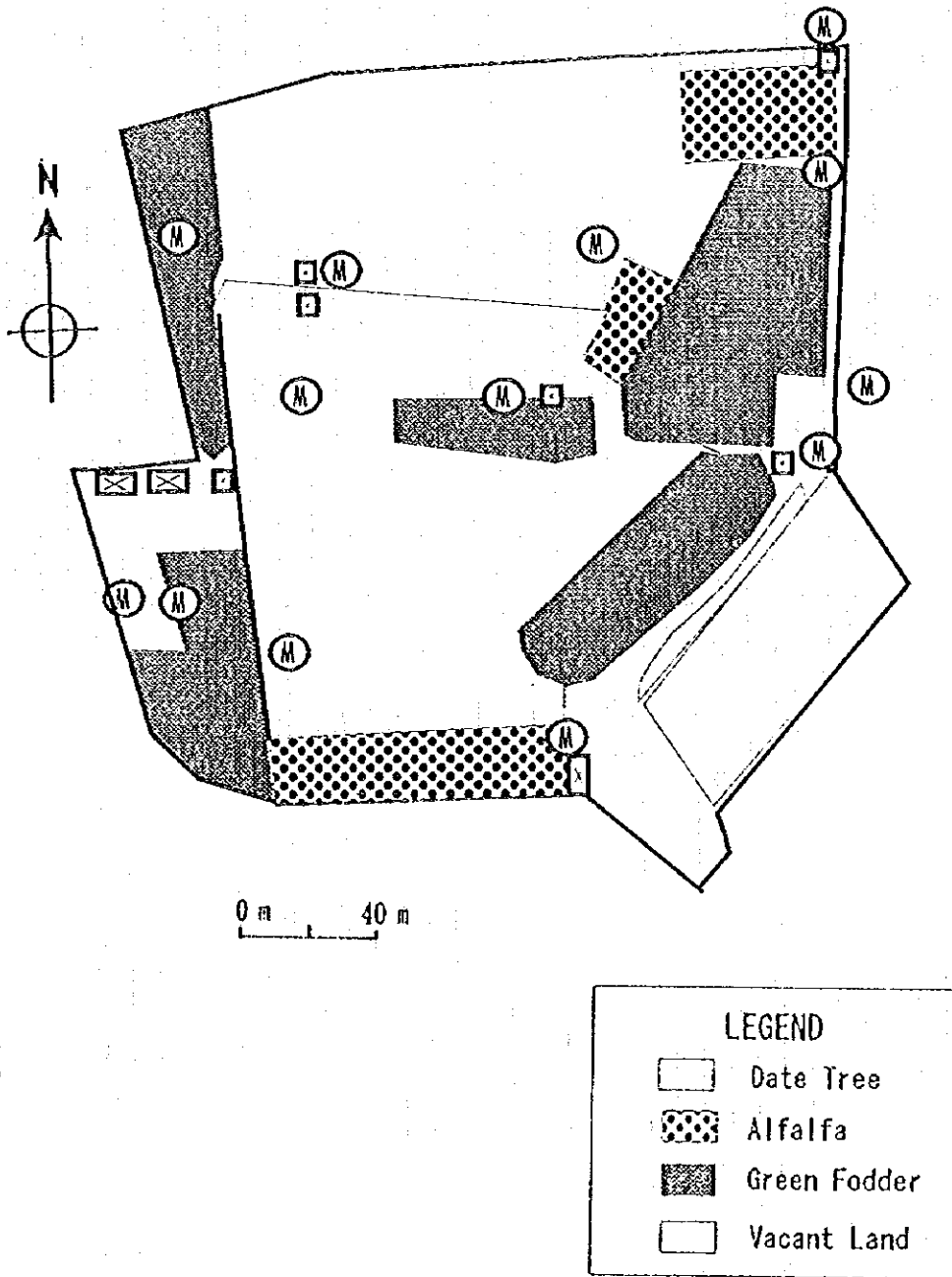
Ca= 16. Mg= 14. Na= 288. K= 195. Fe= 0.10
HCO3=244. CO3= 0. SO4= 122. Cl= 284. NO3= 0.00

ELECTRICAL CONDUCTIVITY IN MICROMHOS/CM AT 25 C 1056.

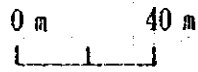
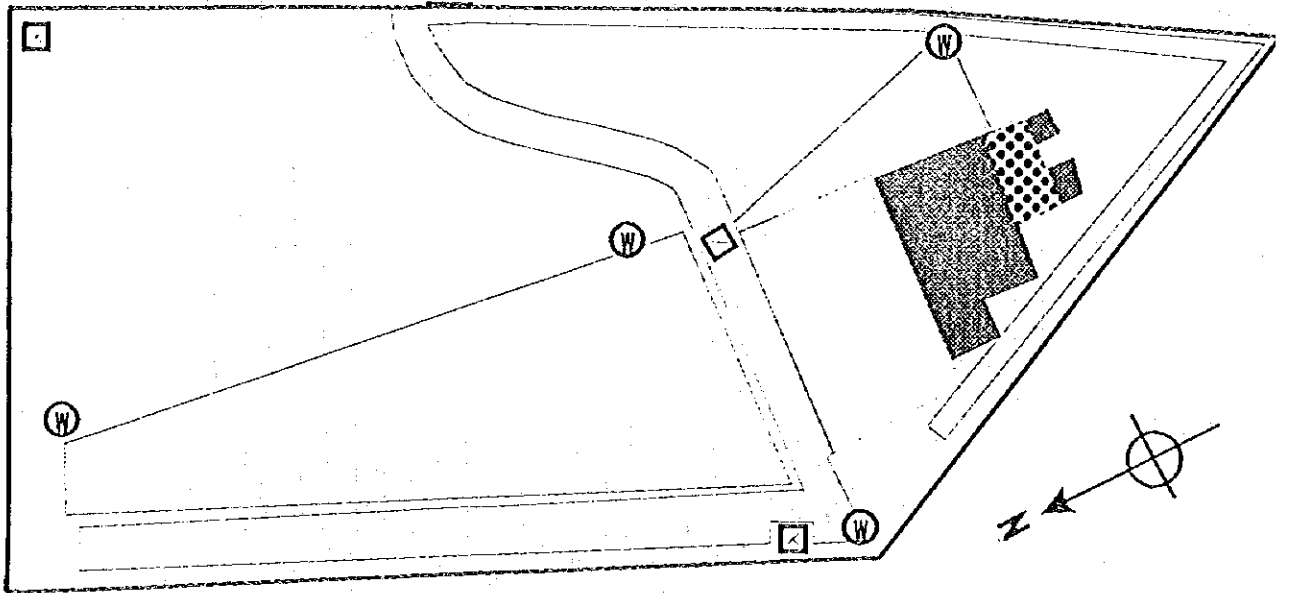
pH= 7.7





SODIUM ADSORPTION RATIO (SAR) = 12.69

3.5.3. Result of Groundwater Draft Survey (Sample Farms Sketches)

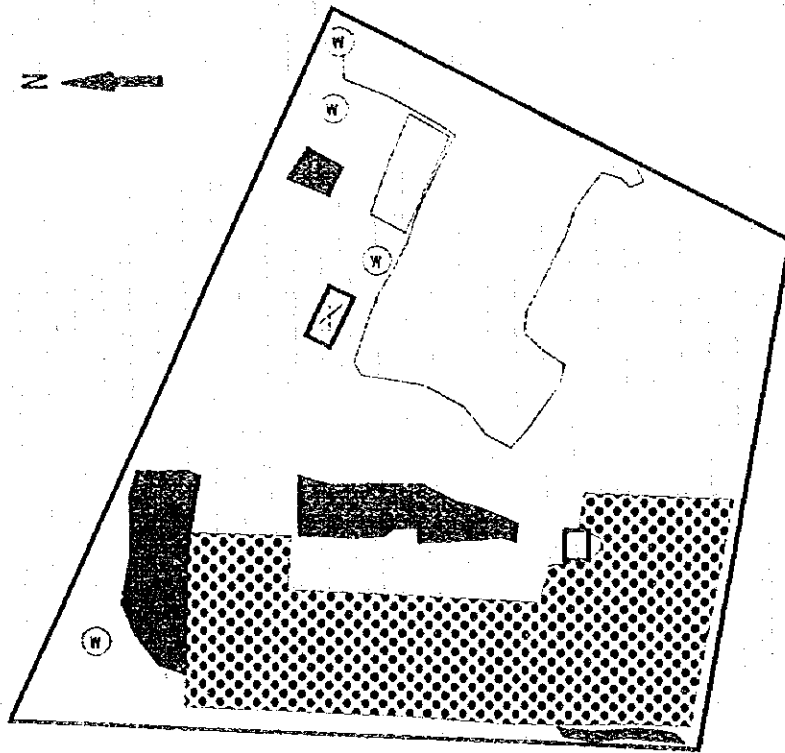


Area: Khuderah	
Crops: Date	2.24
Alfalfa	0.47
Green Fodder	1.47
Other Crops	0.00
Area for Farming	4.18
Area for Other Purpose	2.02
Total Area	6.20



LEGEND	
	Date Tree
	Alfalfa
	Green Fodder
	Vacant Land

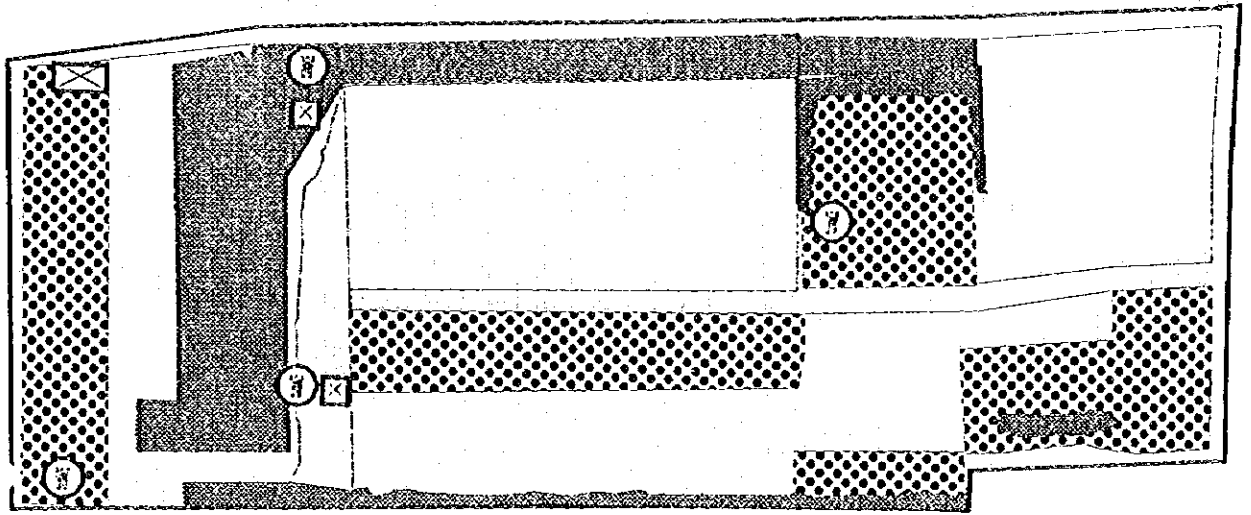
Area: Jabal Mileiha	
Crops: Date	1.90
Alfalfa	0.05
Green Fodder	0.25
Other Crops	0.00
Area for Farming	2.20
Area for Other Purpose	4.81
Total Area	7.00



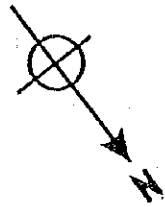
0m 40m





LEGEND	
	Date Tree
	Alfalfa
	Green Fodder
	Vacant Land
	Other Crops

Area: Mileiha	
Crops: Date	0.78
Alfalfa	1.03
Green Fodder	0.27
Other Crops	0.00
Area for Farming	2.08
Area for Other Purpose	2.59
Total Area	4.67

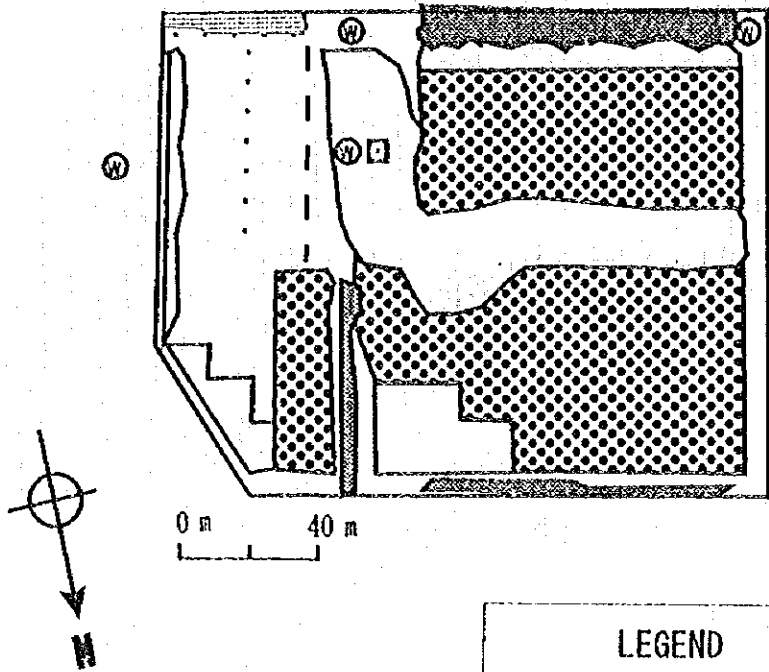


0 m 40 m







LEGEND	
	Date Tree
	Alfalfa
	Green Fodder
	Vacant Land

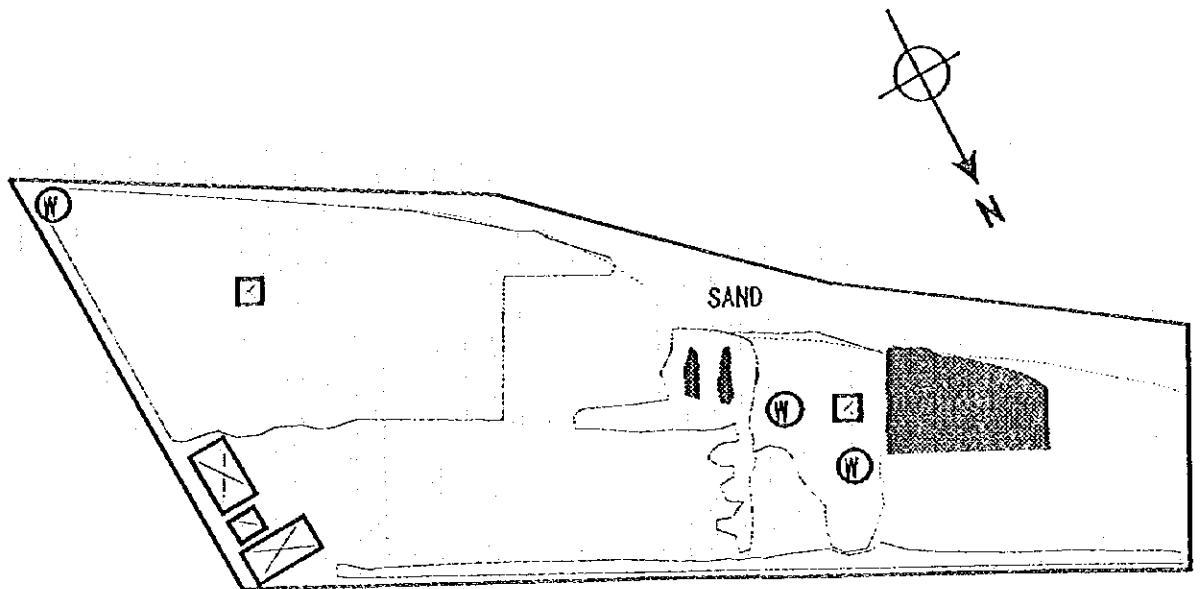
Area: Ikhedir	
Crops: Date	1.17
Alfalfa	1.47
Green Fodder	1.05
Other Crops	0.00
Area for Farming	3.68
Area for Other Purpose	2.52
Total Area	6.20



LEGEND

	Date Tree
	Alfalfa
	Green Fodder
	Vacant Land

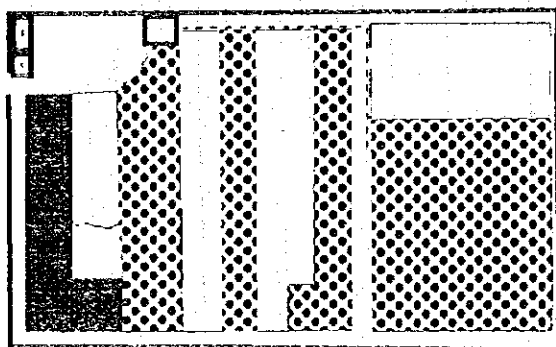
Area: Filli	
Crops: Date	0.56
Alfalfa	1.37
Green Fodder	0.20
Other Crops	0.03
Area for Farming	2.15
Area for Other Purpose	1.20
Total Area	3.36



0 m 40 m

LEGEND	
	Date Tree
	Alfalfa
	Green Fodder
	Vacant Land

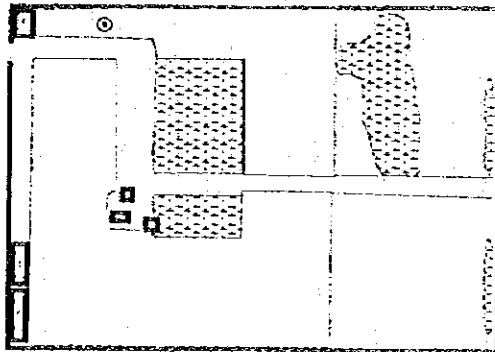
Area: Wisha	
Crops: Date	2.82
Alfalfa	0.00
Green Fodder	0.34
Other Crops	0.00
Area for Farming	3.16
Area for Other Purpose	0.99
Total Area	4.15



0m 40m

LEGEND	
	Date Tree
	Alfalfa
	Green Fodder
	Vacant Land
	Other Crops

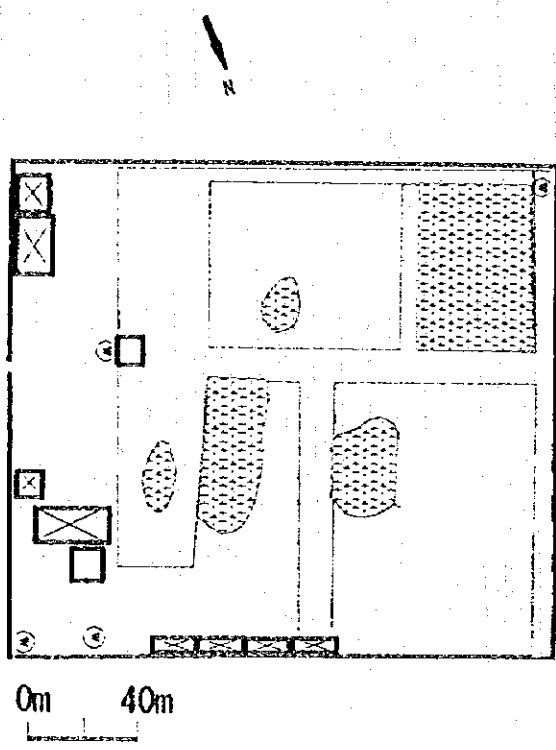
Area: Mileiha East	
Crops: Date	0.08
Alfalfa	0.93
Green Fodder	0.18
Other Crops	0.00
Area for Farming	1.19
Area for Other Purpose	1.04
Total Area	2.23



0m 40m

LEGEND	
	Date Tree
	Alfalfa
	Green Fodder
	Vacant Land
	Other Crops

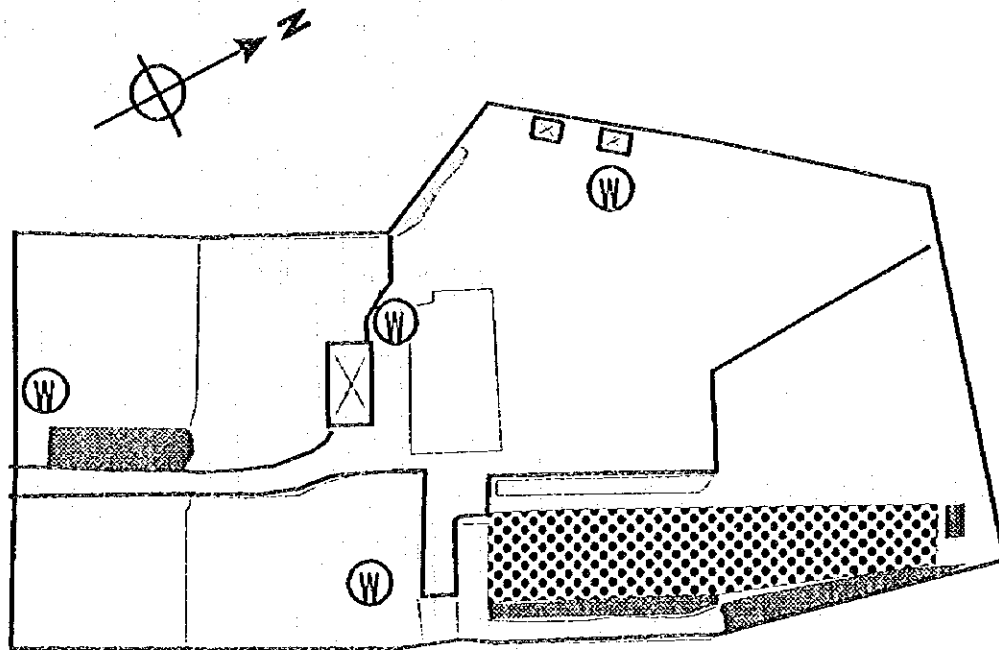
Area: Dhaid East	
Crops: Date	0.92
Alfalfa	0.00
Green Fodder	0.00
Other Crops	0.31
Area for Farming	1.23
Area for Other Purpose	0.83
Total Area	2.06



LEGEND

- Date Tree
- Alfalfa
- Green Fodder
- Vacant Land
- Other Crops

Area: Dhaid West	
Crops: Date	0.88
Alfalfa	0.00
Green Fodder	0.00
Other Crops	0.48
Area for Farming	1.36
Area for Other Purpose	2.03
Total Area	3.39



0 m 40 m

LEGEND	
	Date Tree
	Alfalfa
	Green Fodder
	Vacant Land

Area: Faraji Al Wualla	
Crops: Date	0.60
Alfalfa	0.23
Green Fodder	0.09
Other Crops	0.00
Area for Farming	0.91
Area for Other Purpose	1.74
Total Area	2.65